

# Scheduling Jobs

## Purpose

This module describes how you can use the Database Scheduler to automate jobs.

## Topics

This module will discuss the following topics:

- [Overview](#)
- [Setting Privileges for the HR User](#)

## User Tasks

The following are tasks a user would perform when using the Scheduler:

- [Creating a Job that Executes a PL/SQL Block](#)
- [Creating a Job that Executes a PL/SQL Procedure](#)
- [Creating Saved Schedules](#)
- [Editing a Job to Use a Saved Schedule](#)

## Administration Tasks

The following are tasks an administrator would perform when using the Scheduler:

- [Creating a Job Class](#)
- [Creating a Window](#)
- [Creating a Job that Belongs to a Job Class](#)
- [Creating a Window Group](#)
- [Creating a Job that Uses a Window Group as its Schedule](#)
- [Purging Logs](#)

 **Place the cursor on this icon to display all screenshots. You can also place the cursor on each icon to see only the screenshot associated with it.**

## Overview

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## What is the Database Scheduler?

The Scheduler enables database administrators and application developers to control when and where various tasks take place. These tasks can be time consuming and complicated, so using the Scheduler can help you to improve the management and planning of these tasks. In addition, by ensuring that many routine database tasks occur without manual intervention, you can lower operating costs, implement more reliable routines, and minimize human error.

The Scheduler uses three main components:

- ❑ A **schedule** specifies when and how many times a job is executed. Similar to programs, schedules are database entities and can be saved in the database. The same schedule can be used by multiple jobs.
- ❑ A **program** is a collection of metadata about what will be run by the scheduler. This includes information such as the program name, the type of program, and information about arguments passed to the program.
- ❑ A **job** specifies what needs to be executed and when. For example, the "what" could be a PL/SQL procedure, an executable C program, a Java application, a shell script, or client-side PL/SQL. You can specify the program (what) and schedule (when) as part of the job definition, or you can use an existing program or schedule instead.

## Setting Privileges for the HR User

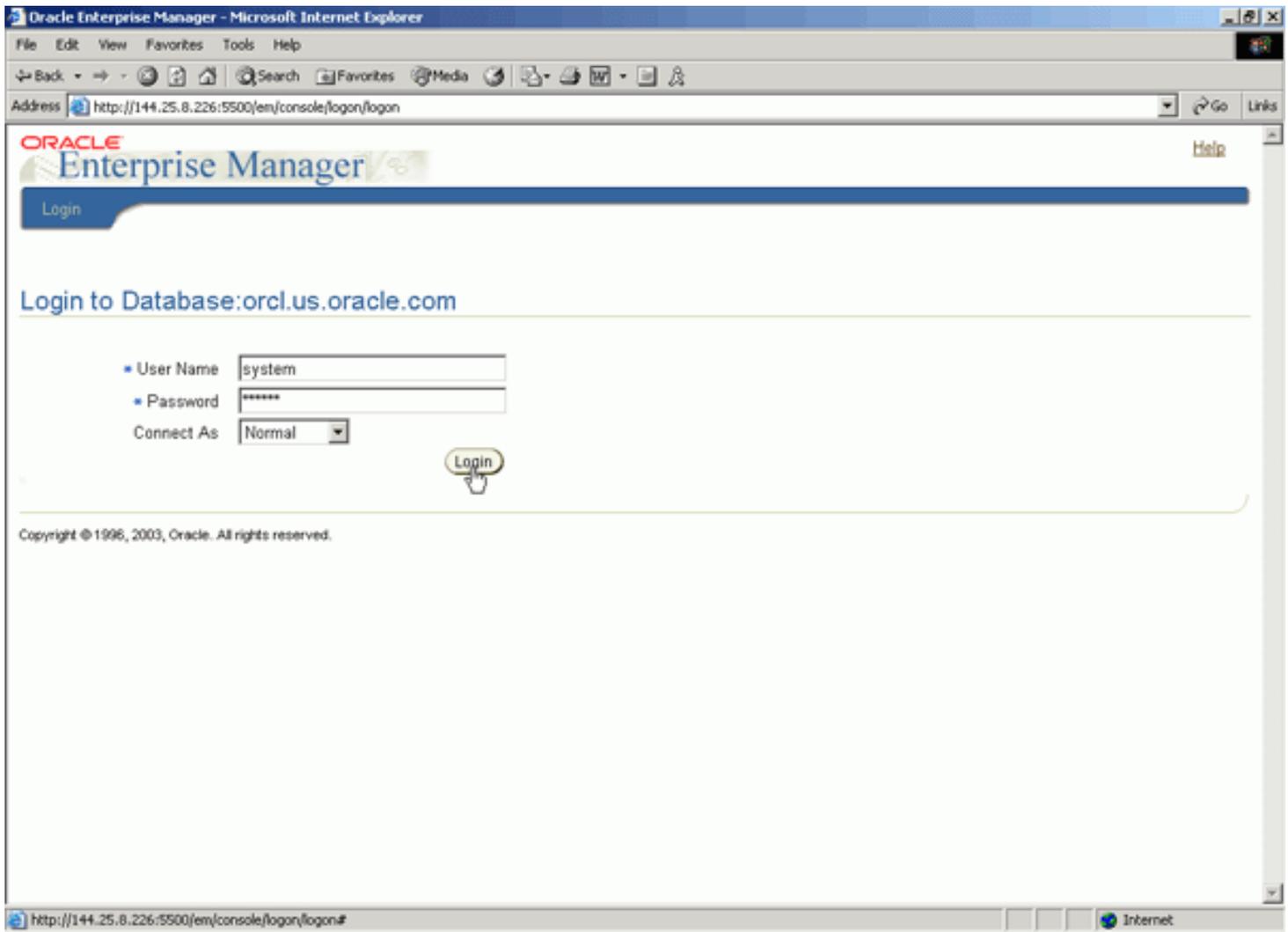
[Back to Topic List](#)

This task is performed by the administrator. Before the user HR can create jobs, you will have to assign some privileges to HR. Perform the following:

1. Open a browser and enter the following URL:

`http://<hostname>:5500/em`

Login as **system/<password>** then click **Login**.



2. Click the **Administration** tab.

Oracle Enterprise Manager (SYSTEM) - Database: orcl.us.oracle.com - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database)

ORACLE  
Enterprise Manager

Setup Preferences Help Logout

Database

Logged in As SYSTEM

Database: orcl.us.oracle.com

Home [Performance](#) [Administration](#) [Maintenance](#)

Latest Data Collected From Target Aug 14, 2003 2:40:20 PM Refresh

View Data Real Time: Manual Refresh

### General

Status **Up** [Shutdown](#)

Up Since **Aug 14, 2003 6:36:23 AM**

Time Zone **PDT**

Availability (%) **100**  
(Last 24 hours)

Instance Name **orcl**

Version **10.1.0.1.0**

Host **EDCDR26P1**

Listener **LISTENER\_EDCDR26P1**

Oracle Home **[/oracle/ora10g](#)**

Alert Log **[No ORA- errors](#)**

### Host CPU

Run Queue **Unavailable**

Paging (pages per second) **Unavailable**

### Active Sessions

Active Sessions **3**

SQL Response Time (%) **202.2**  
(compared to baseline)

### Space Usage

Problem **0**

Tablespaces **0**

Fragmentation **0**

Issues **0**

Dump Area Used (%) **Unavailable**

### Advice

ADDM Findings **0**

Policy Violations **23**

### High Availability

Instance Recovery Time (seconds) **10**

Last Backup Archiving **n/a**

Archive Area Used (%) **n/a**

Flashback Logging **Disabled**

### Job Activity

Scheduled Executions **0**

Running Executions **0**

Suspended Executions **0**

Problem Executions **0**  
(Last 7 days)

[http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database&pageN](#)

Internet

### 3. Select Users .

The screenshot displays the Oracle Enterprise Manager (SYSTEM) interface in a Microsoft Internet Explorer browser window. The browser's address bar shows the URL: [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database&pageNum=3](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database&pageNum=3). The page title is "Oracle Enterprise Manager (SYSTEM) - Database: orcl.us.oracle.com - Microsoft Internet Explorer".

The Oracle Enterprise Manager logo is prominently displayed at the top left, with the text "Enterprise Manager" in a large, blue font. To the right of the logo, there are links for "Setup", "Preferences", "Help", and "Logout". Below the logo, the text "Database: orcl.us.oracle.com" is shown, along with "Logged in As SYSTEM".

The main navigation bar includes tabs for "Home", "Performance", "Administration", and "Maintenance". The "Administration" tab is currently selected. Below this, the interface is organized into several sections:

- Instance**: [Memory Parameters](#), [Undo Management](#), [All Initialization Parameters](#)
- Storage**: [Controlfiles](#), [Tablespaces](#), [Datafiles](#), [Rollback Segments](#), [Redo Log Groups](#), [Archive Logs](#), [Temporary Tablespace Groups](#)
- Security**: [Users](#), [ROs](#), [Profiles](#)
- Resource Manager**: [Resource Monitors](#), [Resource Consumer Group Mappings](#), [Resource Consumer Groups](#), [Resource Plans](#)
- Scheduler**: [Jobs](#), [Schedules](#), [Programs](#), [Job Classes](#), [Windows](#), [Window Groups](#)
- Schema**: [Tables](#), [Indexes](#), [Views](#), [Synonyms](#), [Sequences](#), [Database Links](#)
- Source Types**: [Packages](#), [Package Bodies](#), [Procedures](#), [Functions](#), [Triggers](#), [Java Sources](#), [Java Classes](#)
- User Types**: [Array Types](#), [Object Types](#), [Table Types](#)
- Warehouse**: [OLAP](#), [Cubes](#), [OLAP Dimensions](#), [Measure Folders](#)
- Summary Management**: [Materialized Views](#), [Materialized View Logs](#), [Refresh Groups](#)
- Configuration Management**: [Last Collected Configuration](#), [Database Usage Statistics](#)
- Workload**: [Workload Repository](#), [SQL Tuning Sets](#)

At the bottom of the page, there is another navigation bar with tabs for "Home", "Performance", "Administration", and "Maintenance". The browser's status bar at the very bottom shows the URL: <http://144.25.8.226:5500/em/console/database/databaseObjectsSearch?event=search&otype=user&target=orcl.us.oracle.com&type=orad> and the "Internet" icon.

4. Select the HR user.

Users - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://144.25.8.226:5500/em/console/database/databaseObjectsSearch?event=search&otype=user&target=orcl.us.oracle.com&type=oracle\_database

ORACLE Enterprise Manager Database

Database: orcl.us.oracle.com > Users Logged in As SYSTEM

Users

Search

Name  Go

Example: Entering Test will return all items beginning with upper case TEST, i.e. TEST\_A, except for Java Source and Java Class which use case sensitive searches. Use double quotes to preserve case and embed wildcards(%).

Results

Create Edit View Delete Actions Create Like Go

Previous 1-25 of 29 Next 4

Select	UserName	Account Status	Expiration Date	Default Tablespace	Temporary Tablespace	Profile	Created
<input checked="" type="radio"/>	ANONYMOUS	OPEN		SYSAUX	TEMP	DEFAULT	2003-08-07 08:40:30.0
<input type="radio"/>	BI	OPEN		USERS	TEMP	DEFAULT	2003-08-14 05:02:23.0
<input type="radio"/>	CTXSYS	OPEN		SYSAUX	TEMP	DEFAULT	2003-08-07 08:49:46.0
<input type="radio"/>	DBSNMP	OPEN		SYSAUX	TEMP	DEFAULT	2003-08-07 08:24:01.0
<input type="radio"/>	DIP	OPEN		USERS	TEMP	DEFAULT	2003-08-07 08:15:40.0
<input type="radio"/>	DMSYS	OPEN		SYSAUX	TEMP	DEFAULT	2003-08-07 08:47:52.0
<input type="radio"/>	EXFSYS	OPEN		SYSAUX	TEMP	DEFAULT	2003-08-07 08:33:55.0
<input type="radio"/>	HR	OPEN		USERS	TEMP	DEFAULT	2003-08-14 05:02:23.0
<input type="radio"/>	IB	OPEN		USERS	TEMP	DEFAULT	2003-08-14 05:02:23.0
<input type="radio"/>	MDDATA	OPEN		USERS	TEMP	DEFAULT	2003-08-07 08:45:40.0
<input type="radio"/>	MDSYS	OPEN		SYSAUX	TEMP	DEFAULT	2003-08-07 08:34:15.0

http://144.25.8.226:5500/em/console/database/security/user?oname=HR&event=edit&cancelURL=/em/console/database/databaseObjectsSe Internet

5. Select the **System Privileges** tab.

Oracle Enterprise Manager - Edit User: HR - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://144.25.8.226:5500/em/console/database/security/user?oname=HR&event=edit&cancelURL=/em/console/database/databaseObjectsSearch%3Fevent%3Dredisplay&oty> Go Links

ORACLE  
Enterprise Manager  
Database

Database: [orcl.us.oracle.com](#) > [Users](#) > Edit User: HR

### Edit User: HR

Show SQL Revert Apply

**General** Roles System Privileges Object Privileges Quotas Consumer Groups Proxy Users

Name **HR**

Profile **DEFAULT**

Authentication **Password**

• Enter Password

• Confirm Password

Expire Password now

• Default Tablespace **USERS**

Temporary Tablespace **TEMP**

Status  Locked  Unlocked

**General** Roles System Privileges Object Privileges Quotas Consumer Groups Proxy Users

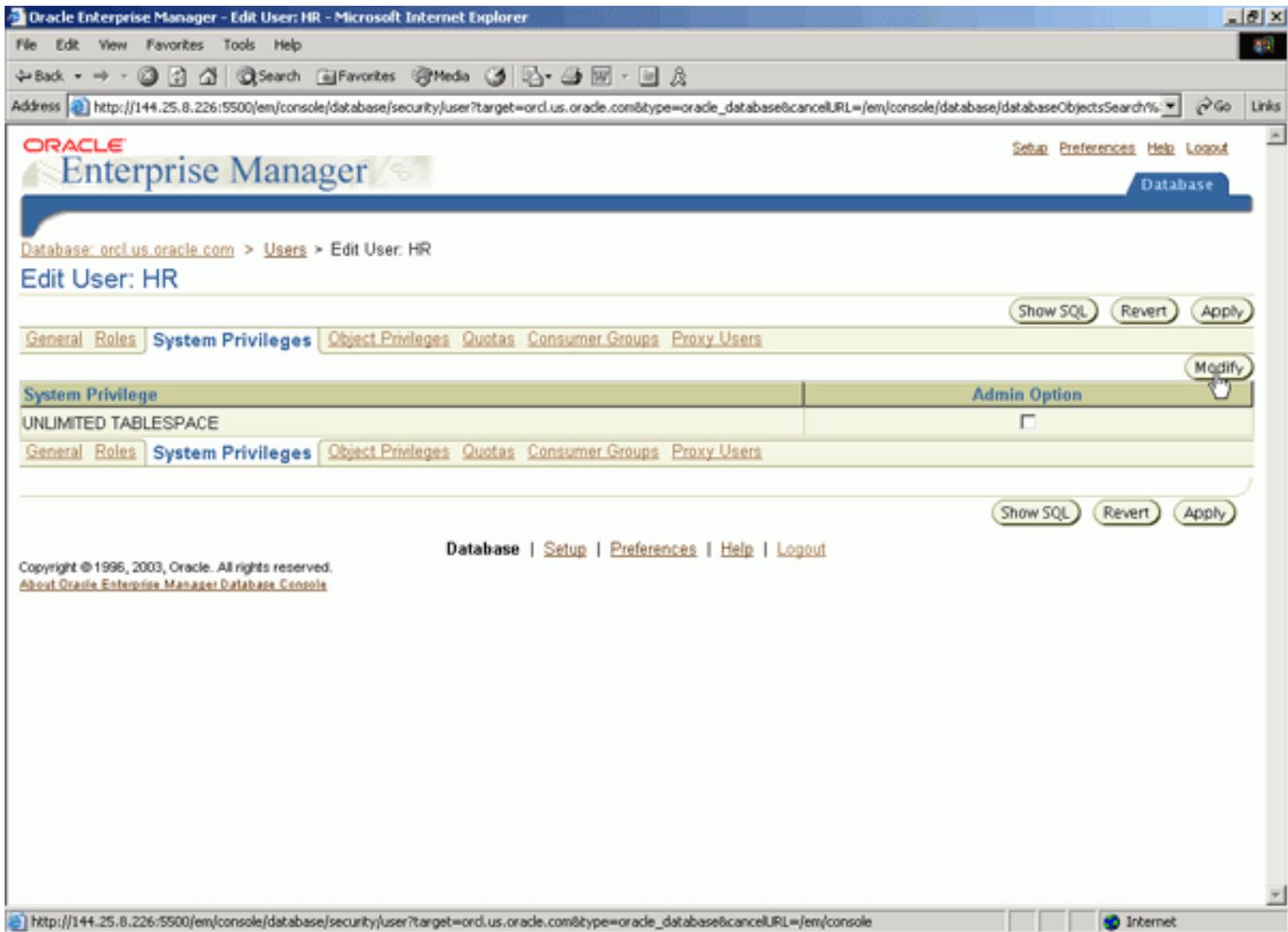
Show SQL Revert Apply

Database | [Setup](#) | [Preferences](#) | [Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

<http://144.25.8.226:5500/em/console/database/security/user?oname=HR&event=edit&cancelURL=/em/console/database/databaseObjectsSe> Internet

6. Click **Modify** .



7. Select the privileges **CREATE JOB** , **MANAGE SCHEDULER** and **SELECT ANY DICTIONARY** and click **Move** . Then click **OK** . Normally, the **MANAGE SCHEDULER** system privilege does not need to be granted to users. However, **HR** will need this system privilege to be able to force open a window later on in the lesson.

The screenshot shows the Oracle Enterprise Manager interface in a Microsoft Internet Explorer browser window. The title bar reads "Modify System Privileges - Microsoft Internet Explorer". The address bar shows the URL: [http://139.185.33.224:5500/em/console/database/security/user?target=orcl.us.oracle.com&type=oracle\\_database&name=HR&otype=USER](http://139.185.33.224:5500/em/console/database/security/user?target=orcl.us.oracle.com&type=oracle_database&name=HR&otype=USER). The page header includes the Oracle logo and "Enterprise Manager" text, with navigation links for "Setup", "Preferences", "Help", and "Logout". A breadcrumb trail indicates the current location: "Database: orcl.us.oracle.com > Users > Edit User: HR". The main heading is "Modify System Privileges".

The interface is divided into two main sections:

- Available System Privileges:** A list of privileges including ADMINISTER ANY SQL TUNING SET, ADMINISTER DATABASE TRIGGER, ADMINISTER RESOURCE MANAGER, ADMINISTER SQL TUNING SET, ADVISOR, ALTER ANY CLUSTER, ALTER ANY DIMENSION, ALTER ANY EVALUATION CONTEXT, ALTER ANY INDEX, and ALTER ANY INDEXTYPE.
- Selected System Privileges:** A list of privileges currently assigned to the user, including CREATE JOB, MANAGE SCHEDULER, SELECT ANY DICTIONARY, and UNLIMITED TABLESPACE.

Between these two lists are control buttons: "Move" (right arrow), "Move All" (right double arrow), "Remove" (left arrow), and "Remove All" (left double arrow). At the top right of the main content area, there are "Cancel" and "OK" buttons. At the bottom right, there are also "Cancel" and "OK" buttons. The footer contains copyright information: "Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager Database Console". The browser status bar at the bottom shows the same URL and "Internet" as the connection type.

8. Click **Apply** .

Oracle Enterprise Manager - Edit User: HR - Microsoft Internet Explorer

Address: [http://139.185.33.224:5500/em/console/database/security/user?target=orcl.us.oracle.com&type=oracle\\_database&name=HR&type=USER](http://139.185.33.224:5500/em/console/database/security/user?target=orcl.us.oracle.com&type=oracle_database&name=HR&type=USER)

ORACLE Enterprise Manager Database

Database: orcl.us.oracle.com > Users > Edit User: HR

Edit User: HR

Show SQL Revert Apply

General Roles System Privileges Object Privileges Quotas Consumer Groups Proxy Users

Modify

System Privilege	Admin Option
CREATE JOB	<input type="checkbox"/>
MANAGE SCHEDULER	<input type="checkbox"/>
SELECT ANY DICTIONARY	<input type="checkbox"/>
UNLIMITED TABLESPACE	<input type="checkbox"/>

General Roles System Privileges Object Privileges Quotas Consumer Groups Proxy Users

Show SQL Revert Apply

Database | Setup | Preferences | Help | Logout

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[About Oracle Enterprise Manager Database Console](#)

[http://139.185.33.224:5500/em/console/database/security/user?target=orcl.us.oracle.com&type=oracle\\_database&name=HR&type=USER](http://139.185.33.224:5500/em/console/database/security/user?target=orcl.us.oracle.com&type=oracle_database&name=HR&type=USER) Internet

9. You can now logoff as SYSTEM and log on as the user HR. Click **Logout**.

Oracle Enterprise Manager - Edit User: HR - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/security/user?target=orcl.us.oracle.com&type=oracle\\_database&cancelURL=/em/console/database/databaseObjectsSearch%](http://144.25.8.226:5500/em/console/database/security/user?target=orcl.us.oracle.com&type=oracle_database&cancelURL=/em/console/database/databaseObjectsSearch%...) Go Links

ORACLE  
Enterprise Manager

Setup Preferences Help **Login**

Database

Database: orcl.us.oracle.com > Users > Edit User: HR

## Edit User: HR

Show SQL Revert Apply

**Update Message**  
User HR has been modified successfully

General Roles **System Privileges** Object Privileges Quotas Consumer Groups Proxy Users

Modify

System Privilege	Admin Option
CREATE JOB	<input type="checkbox"/>
MANAGE SCHEDULER	<input type="checkbox"/>
SELECT ANY DICTIONARY	<input type="checkbox"/>
UNLIMITED TABLESPACE	<input type="checkbox"/>

General Roles **System Privileges** Object Privileges Quotas Consumer Groups Proxy Users

Show SQL Revert Apply

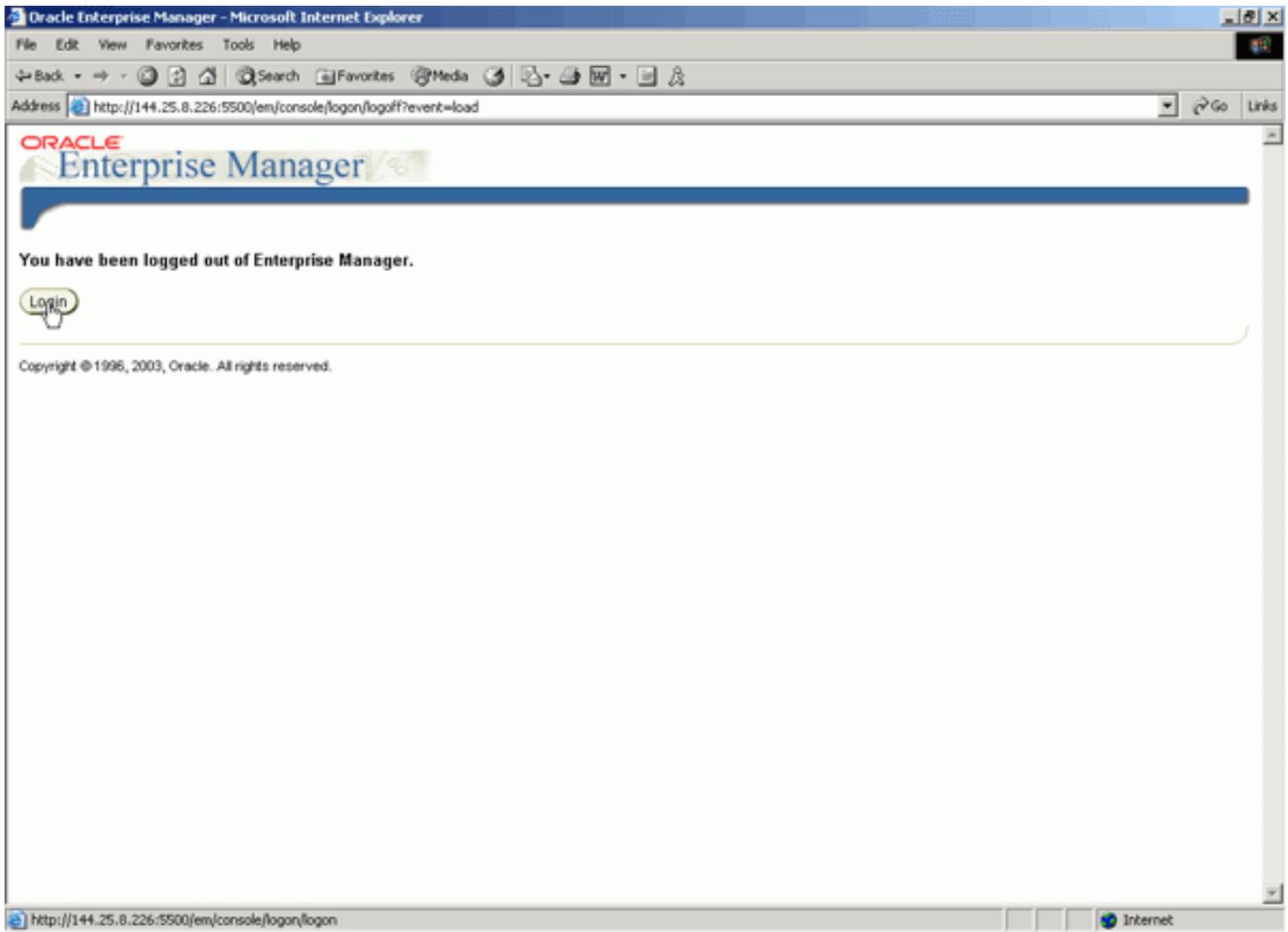
Database | Setup | Preferences | Help | Logout

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[About Oracle Enterprise Manager Database Controls](#)

<http://144.25.8.226:5500/em/console/login/logoff?event=load> Internet

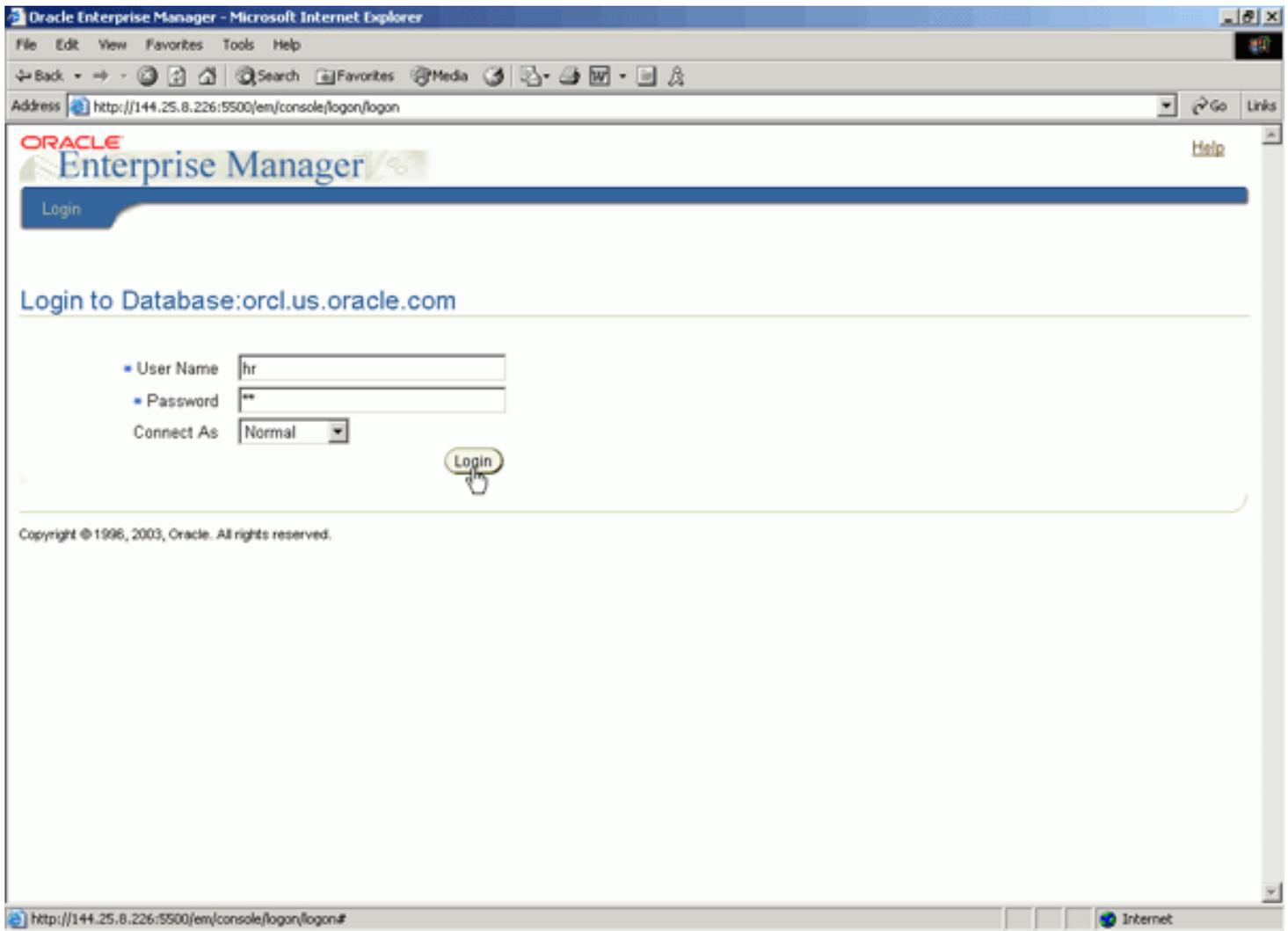
Click **Login** .

10.



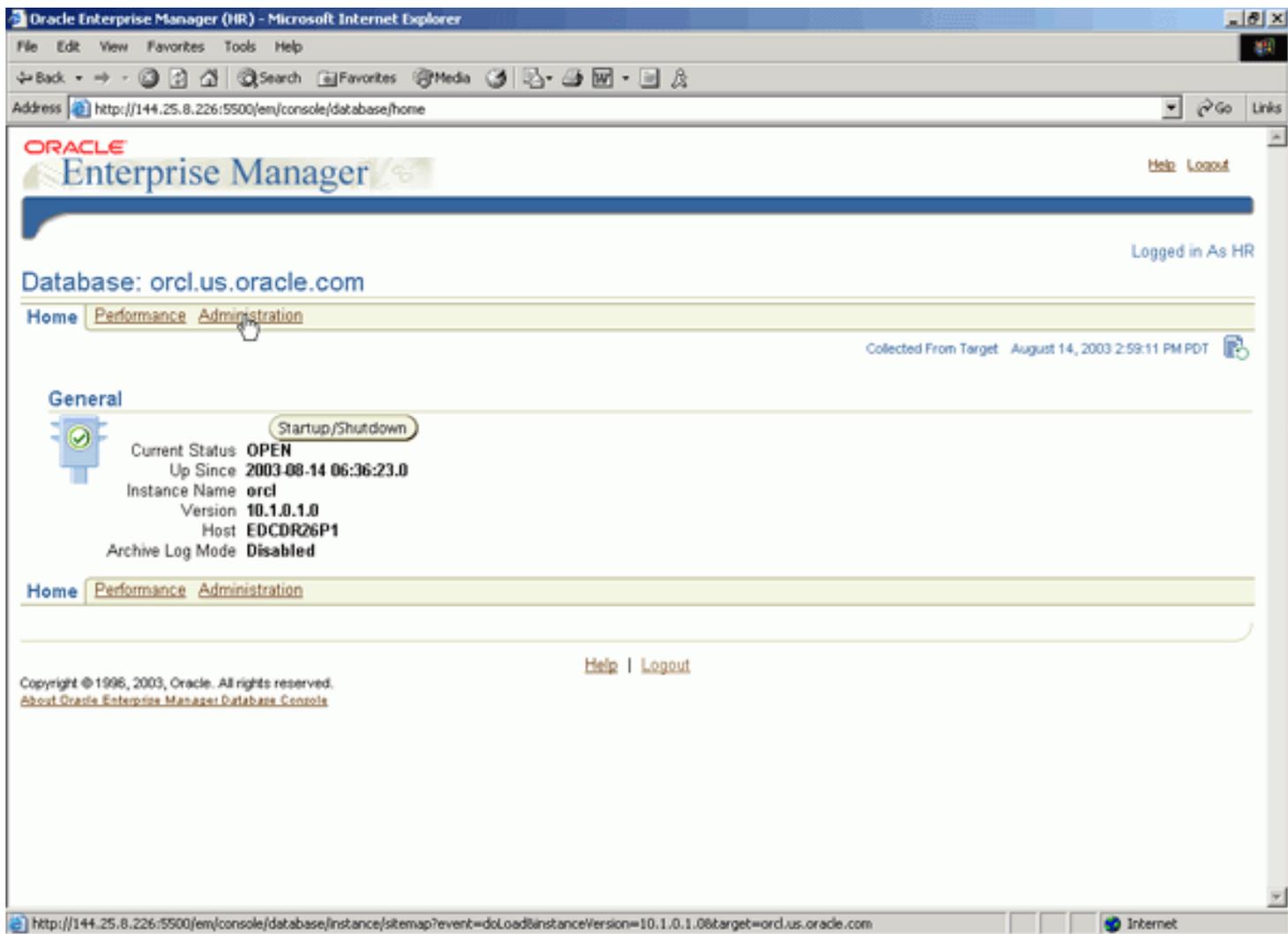
Enter **hr/hr** then click **Login** .

11.



Click the **Administration** tab.

12.



The screenshot displays the Oracle Enterprise Manager (HR) console in a Microsoft Internet Explorer browser window. The address bar shows the URL: <http://144.25.8.226:5500/em/console/database/home>. The page title is "Oracle Enterprise Manager (HR) - Microsoft Internet Explorer". The main content area shows the Oracle logo and "Enterprise Manager" text. A navigation bar includes "Home", "Performance", and "Administration" tabs. The "Administration" tab is selected, and a "Startup/Shutdown" button is visible. The "General" section displays the following database status information:

Current Status	OPEN
Up Since	2003-08-14 06:36:23.0
Instance Name	orcl
Version	10.1.0.1.0
Host	EDCDR26P1
Archive Log Mode	Disabled

At the bottom of the page, there is a copyright notice: "Copyright © 1996, 2003, Oracle. All rights reserved." and a link to "About Oracle Enterprise Manager Database Controls". The browser's status bar at the bottom shows the full URL: <http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoadInstance&version=10.1.0.1.0&target=orcl.us.oracle.com>.

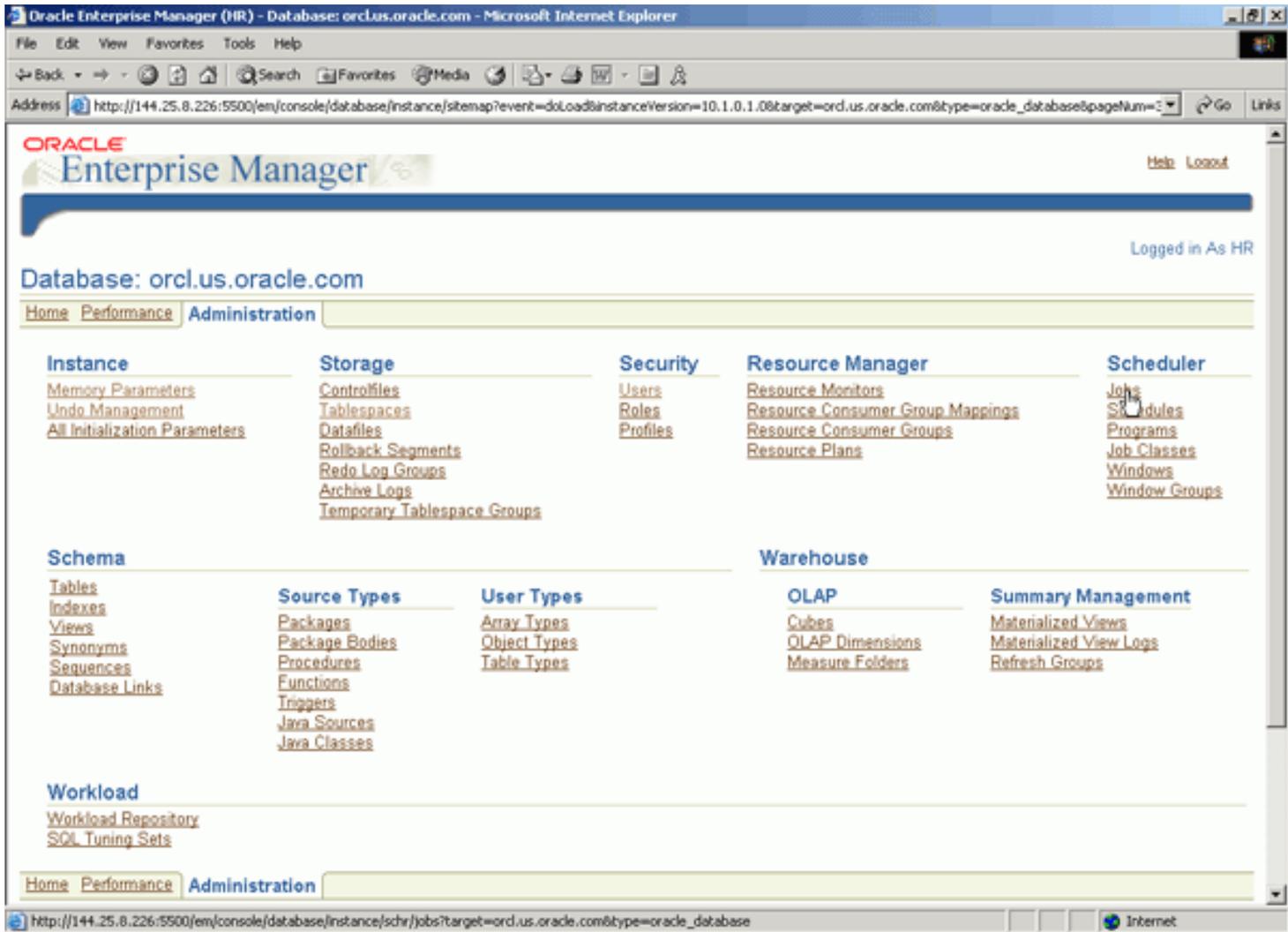
You are now ready to create some jobs.

## Creating a Job that Executes a PL/SQL Block

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You will first create a simple, self-contained job. This means that all the job attributes will be specified in the job itself. Perform the following:

1. Select the **Jobs** link.



The screenshot shows the Oracle Enterprise Manager (EM) Administration page for the database 'orcl.us.oracle.com'. The user is logged in as 'As HR'. The page is divided into several sections: Instance, Storage, Security, Resource Manager, Scheduler, Schema, Warehouse, and Workload. The 'Administration' tab is selected, and the 'Scheduler' link is highlighted in the top navigation bar. The 'Scheduler' section contains links for Jobs, Schedules, Programs, Job Classes, Windows, and Window Groups. The 'Jobs' link is the target of the instruction.

Oracle Enterprise Manager (EM) - Database: orcl.us.oracle.com - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=orcl.us.oracle.com&type=oracle\\_database&pageNum=1](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=orcl.us.oracle.com&type=oracle_database&pageNum=1)

ORACLE Enterprise Manager Help Logout

Database: orcl.us.oracle.com

Home Performance Administration

**Instance**  
[Memory Parameters](#)  
[Undo Management](#)  
[All Initialization Parameters](#)

**Storage**  
[Controlfiles](#)  
[Tablespaces](#)  
[Datafiles](#)  
[Rollback Segments](#)  
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[Temporary Tablespace Groups](#)

**Security**  
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**Scheduler**  
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**Schema**  
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**Source Types**  
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**User Types**  
[Array Types](#)  
[Object Types](#)  
[Table Types](#)

**Warehouse**  
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[OLAP Dimensions](#)  
[Measure Folders](#)

**Summary Management**  
[Materialized Views](#)  
[Materialized View Logs](#)  
[Refresh Groups](#)

**Workload**  
[Workload Repository](#)  
[SQL Tuning Sets](#)

Home Performance Administration

[http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle_database) Internet

2. Click **Create** to create a new job.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\_database

ORACLE Enterprise Manager

Database: orcl.us.oracle.com > Jobs

Jobs

Page Refreshed Aug 14, 2003 3:00:47 PM Refresh Create

Scheduled Running Disabled Run History

Select Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
No scheduled jobs found					

Scheduled Running Disabled Run History

Help | Logout

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[About Oracle Enterprise Manager Database Controls](#)

http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\_database# Internet

- Enter the following information, then click **OK**.

Name: **alter\_indx001**

Owner: **HR**

Enabled: **Yes**

Description: **This job will coalesce index HR.EMP\_NAME\_IX on the EMPLOYEES table.**

Logging Level: **log job runs only (RUNS)**

Job Class: **DEFAULT\_JOB\_CLASS**

Auto Drop: **False**

Restartable: **TRUE**

Command: **EXECUTE IMMEDIATE 'alter index HR.EMP\_NAME\_IX coalesce';**

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

Database: orcl.us.oracle.com > Jobs > Create Job

## Create Job

Show SQL Cancel OK

**General** Schedule Options

- Name: alter\_indx001
- Owner: HR
- Enabled:  Yes  No
- Description: s job will coalesce index HR.EMP\_NAME\_IX on the EMPLOYEES table.
- Logging Level: Log job runs only (RUNS)
- Job Class: DEFAULT\_JOB\_CLASS [Create job Class](#)
- Auto Drop: FALSE
- Restartable: TRUE

**Command**

Select the command type for this job, and specify the required information for that command type.

Command Type: **PL/SQL Block** [Change Command Type](#)

```
EXECUTE IMMEDIATE 'alter index HR.EMP_NAME_IX coalesce';
```

- Your job was executed. Click the **Run History** tab. If you do not see your job, click Refresh.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/jobs?sname=HR&pageName=scheduled&event=create\_ok&oname=ALTER\_INDX001&target=orcl.us.oracle.com

ORACLE Enterprise Manager Help Logout

Database: orcl.us.oracle.com > Jobs

**Confirmation**  
Job HR.ALTER\_INDX001 has been created successfully

Jobs Page Refreshed Sep 15, 2003 12:36:46 PM Refresh Create

Scheduled Running Disabled Run History

Select Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
No scheduled jobs found					

Scheduled Running Disabled Run History

Help | Logout

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About Oracle Enterprise Manager Database Controls

http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle\_database Internet

- You see the job **ALTER\_INDX001** completed successfully. Click on the job to see the job execution details.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=ord.us.oracle.com&type=oracle\_database

Database: [ord.us.oracle.com](#) > Jobs

Jobs

Page Refreshed Sep 15, 2003 12:37:04 PM Refresh Create

Scheduled Running Disabled Run History

Purge All Logs View Purge Log

Select	Name	Owner	Status	Completion Date	Run Duration (minutes)
<input checked="" type="checkbox"/>	ALTER_IND:001	HR	SUCCESS	Sep 15, 2003 12:36:46 PM -07:00	0.0

Scheduled Running Disabled Run History

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[About Oracle Enterprise Manager Database Console](#)

Help | Logout

http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&name=ALTER\_IND:001&target=ord.us.oracle.co

- Now you are ready to create a job that executes a PL/SQL procedure. Click the **database** breadcrumb at the top of the window.

Oracle Enterprise Manager (HR) - View Job: HR.ALTER\_INDX001 - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&oname=ALTER\_INDX001&target=orcl.us.oracle.com&type=oracle\_database&from=

Database: orcl.us.oracle.com > Jobs > View Job: HR.ALTER\_INDX001

**View Job: HR.ALTER\_INDX001** [Edit] [OK]

General	Schedule	Options
Name: <b>ALTER_INDX001</b>	Start Date	Priority: <b>Medium</b>
Owner: <b>HR</b>	End Date	Schedule Limit (minutes)
Enabled: <b>FALSE</b>	Frequency	Maximum Run Duration (minutes)
Description: <b>This job will coalesce index HR.EMP_NAME_IX on the EMPLOYEES table.</b>		Maximum Runs
Logging Level: <b>Log job runs only (RUNS)</b>		Maximum Failures
Job Class: <b>DEFAULT_JOB_CLASS</b>		Job Weight: <b>1</b>
Auto Drop: <b>FALSE</b>		Instance Stickiness: <b>FALSE</b>
Restartable: <b>TRUE</b>		

**Command**

Command Type: **PL/SQL Block**

PL/SQL EXECUTE IMMEDIATE 'alter index HR.EMP\_NAME\_IX coalesce';

**Operation Detail** [View]

Select Log ID	Log Date	Operation	Status
6	01-15-2004 12:26:46 PM	SUCCESS	

http://144.25.8.226:5500/em/console/database/home?event=doLoad&pageNum=3

## Creating a Job that Executes a PL/SQL Procedure

[Back to Topic List](#)

In this case, you will first create a PL/SQL procedure and then create a job that will point to the procedure which will execute when the job is executed. You will perform the following:

- [Creating a Procedure](#)
- [Create a Job that uses the PL/SQL Procedure](#)

## Creating a Procedure

[Back to List](#)

Perform the following:

1. Select the **Procedures** link.

The screenshot shows the Oracle Enterprise Manager (HR) console interface. The browser title is "Oracle Enterprise Manager (HR) - Database: orcl.us.oracle.com - Microsoft Internet Explorer". The address bar shows the URL: [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=orcl.us.oracle.com&type=oracle\\_database&pageNum=3](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=orcl.us.oracle.com&type=oracle_database&pageNum=3). The page displays the Oracle Enterprise Manager logo and navigation tabs: Home, Performance, and Administration. The Administration tab is active, showing a grid of links for various database components. The "Procedures" link under the "Source Types" category is highlighted with a mouse cursor. Other visible links include Instance, Storage, Security, Resource Manager, Scheduler, Schema, Warehouse, and Workload.

Database: orcl.us.oracle.com

Home Performance Administration

**Instance**  
[Memory Parameters](#)  
[Undo Management](#)  
[All Initialization Parameters](#)

**Storage**  
[Controlfiles](#)  
[Tablespaces](#)  
[Datafiles](#)  
[Rollback Segments](#)  
[Redo Log Groups](#)  
[Archive Logs](#)  
[Temporary Tablespace Groups](#)

**Security**  
[Users](#)  
[Roles](#)  
[Profiles](#)

**Resource Manager**  
[Resource Monitors](#)  
[Resource Consumer Group Mappings](#)  
[Resource Consumer Groups](#)  
[Resource Plans](#)

**Scheduler**  
[Jobs](#)  
[Schedules](#)  
[Programs](#)  
[Job Classes](#)  
[Windows](#)  
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**Schema**  
[Tables](#)  
[Indexes](#)  
[Views](#)  
[Synonyms](#)  
[Sequences](#)  
[Database Links](#)

**Source Types**  
[Packages](#)  
[Package Bodies](#)  
[Procedures](#)  
[Functions](#)  
[Triggers](#)  
[Java Sources](#)  
[Java Classes](#)

**User Types**  
[Array Types](#)  
[Object Types](#)  
[Table Types](#)

**Warehouse**  
**OLAP**  
[Cubes](#)  
[OLAP Dimensions](#)  
[Measure Folders](#)

**Summary Management**  
[Materialized Views](#)  
[Materialized View Logs](#)  
[Refresh Groups](#)

**Workload**  
[Workload Repository](#)  
[SQL Tuning Sets](#)

Home Performance Administration

<http://144.25.8.226:5500/em/console/database/databaseObjectsSearch?event=search&otype=schema&objectType=PROCEDURE&target=orcl.u> Internet

2. Click **Create**.

The screenshot shows the Oracle Enterprise Manager console interface. The search criteria are set to Object Type: Procedure, Schema: HR, and Object Name: (empty). The search results table is as follows:

Select	Schema	Procedure Name	Created	Last Modified	Status
<input checked="" type="radio"/>	HR	<a href="#">ADD_JOB_HISTORY</a>	2003-08-14 05:03:26.0	2003-08-14 05:03:26.0	INVALID
<input type="radio"/>	HR	<a href="#">SECURE_DML</a>	2003-08-14 05:03:26.0	2003-08-14 05:03:26.0	INVALID

At the top right of the results area, there is a 'Create' button. Below the table, there are 'Help' and 'Logout' links. The footer contains copyright information: 'Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager Database Controls'.

3. Enter the following information, then click **OK**.

Name: **coalesce\_indx001**

Schema: **HR**

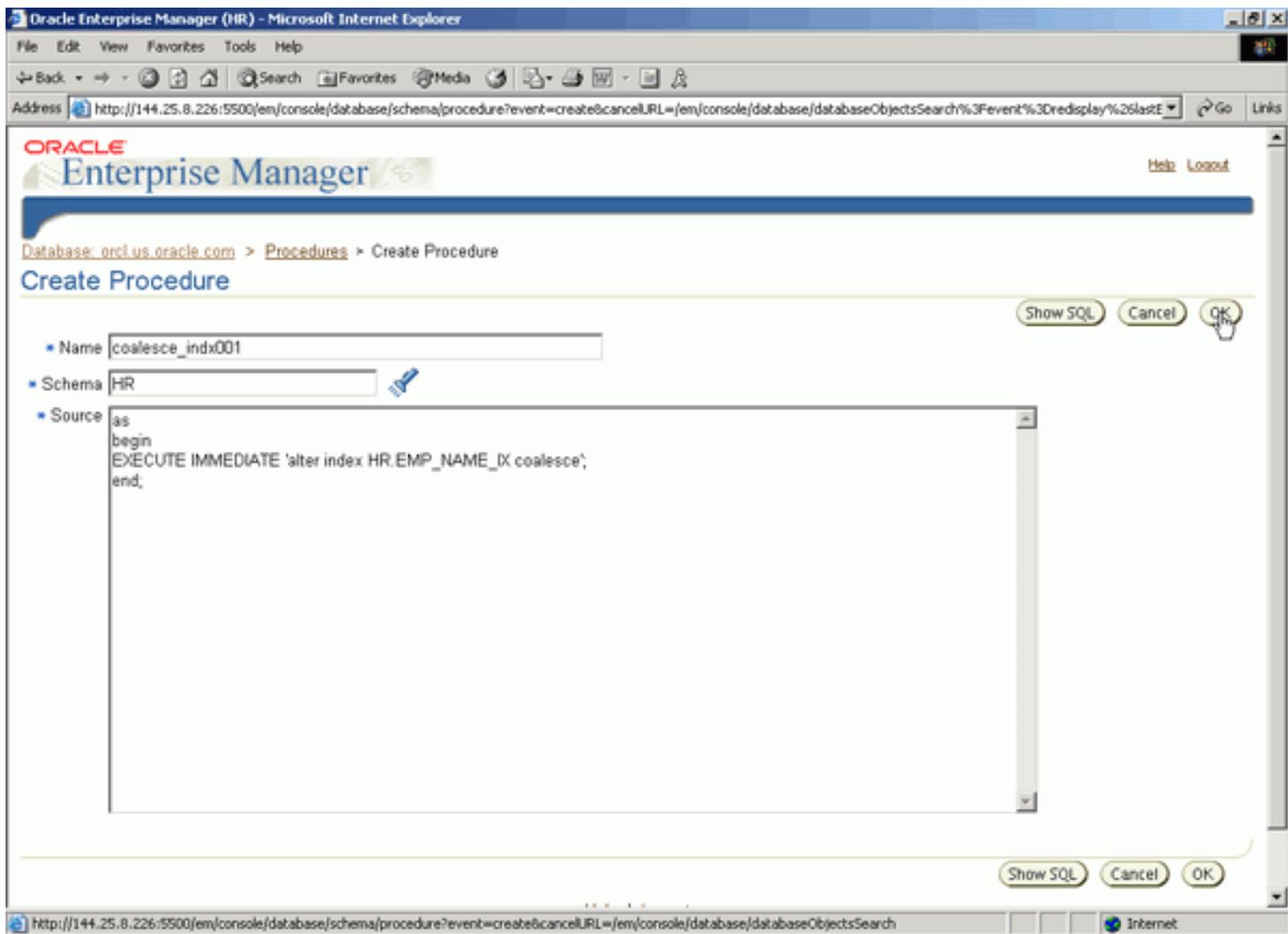
Source:

**as**

**begin**

**EXECUTE IMMEDIATE 'alter index HR.EMP\_NAME\_IX coalesce';**

**end;**



4. Click your **Database** breadcrumb.

The screenshot shows the Oracle Enterprise Manager interface in Microsoft Internet Explorer. The browser address bar shows the URL: `http://144.25.8.226:5500/em/console/database/databaseObjectsSearch?event=redisplay&lastEvent=create&target=orcl.us.oracle.com&type=oracle_database&createOK=true`. The page title is "Procedures - Oracle Enterprise Manager".

An "Update Message" banner indicates: "Procedure HR.COALESCE\_IND001 has been created successfully".

The "Procedures" section includes a search interface with the following fields:

- Object Type: Procedure
- Schema: HR
- Object Name: (empty)

Below the search fields is a "Results" section with a table of procedures. The table has columns for Select, Schema, Procedure Name, Created, Last Modified, and Status. The table contains three rows:

Select	Schema	Procedure Name	Created	Last Modified	Status
<input checked="" type="radio"/>	HR	<a href="#">ADD_JOB_HISTORY</a>	2003-08-14 05:03:26.0	2003-08-14 05:03:26.0	INVALID
<input type="radio"/>	HR	<a href="#">COALESCE_IND001</a>	2003-08-14 15:11:41.0	2003-08-14 15:11:41.0	VALID
<input type="radio"/>	HR	<a href="#">SECURE_DML</a>	2003-08-14 05:03:26.0	2003-08-14 05:03:26.0	INVALID

At the bottom of the page, there is a copyright notice: "Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager Database Controls".

Create a Job that uses the PL/SQL Procedure

[Back to List](#)

Now you can create the job. Perform the following:

1. Select the **Jobs** link.

The screenshot displays the Oracle Enterprise Manager (EM) Administration console. The browser title is "Oracle Enterprise Manager (HR) - Database: orcl.us.oracle.com - Microsoft Internet Explorer". The address bar shows the URL: [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=orcl.us.oracle.com&type=oracle\\_database&pageNum=3](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=orcl.us.oracle.com&type=oracle_database&pageNum=3). The page is titled "Enterprise Manager" and shows the user is logged in as "HR". The main navigation bar includes "Home", "Performance", and "Administration". The "Administration" section is expanded, showing several categories: "Instance", "Storage", "Security", "Resource Manager", "Scheduler", "Schema", "Warehouse", and "Workload". The "Scheduler" category is expanded, showing links for "Jobs", "Schedules", "Programs", "Job Classes", "Windows", and "Window Groups". The "Jobs" link is highlighted with a mouse cursor. The "Schema" category shows links for "Tables", "Indexes", "Views", "Synonyms", "Sequences", and "Database Links". The "Warehouse" category shows links for "OLAP" (Cubes, OLAP Dimensions, Measure Folders) and "Summary Management" (Materialized Views, Materialized View Logs, Refresh Groups). The "Workload" category shows links for "Workload Repository" and "SQL Tuning Sets". The browser status bar at the bottom shows the URL: [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle_database).

2. Click **Create**.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\_database

ORACLE Enterprise Manager

Database: orcl.us.oracle.com > Jobs

Jobs

Page Refreshed Aug 14, 2003 3:03:06 PM Refresh Create

Scheduled Running Disabled Run History

Select Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
No scheduled jobs found					

Scheduled Running Disabled Run History

Help | Logout

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[About Oracle Enterprise Manager Database Controls](#)

http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\_database# Internet

- Enter the following information, then click **Change Command Type**.

Name: **alter\_idx\_proc001**

Owner: **HR**

Enabled: **No**

Description: **This job will coalesce index HR.EMP\_NAME\_IX on the EMPLOYEES table.**

Logging Level: **log job runs only (RUNS)**

Job Class: **DEFAULT\_JOB\_CLASS**

Auto Drop: **False**

Restartable: **TRUE**

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

Database: orcl.us.oracle.com > Jobs > Create Job

## Create Job

Show SQL Cancel OK

**General** Schedule Options

- Name: alter\_idx\_proc001
- Owner: HR
- Enabled:  Yes  No
- Description: s job will coalesce index HR.EMP\_NAME\_IX on the EMPLOYEES table.
- Logging Level: Log job runs only (RUNS)
- Job Class: DEFAULT\_JOB\_CLASS [Create job Class](#)
- Auto Drop: FALSE
- Restartable: TRUE

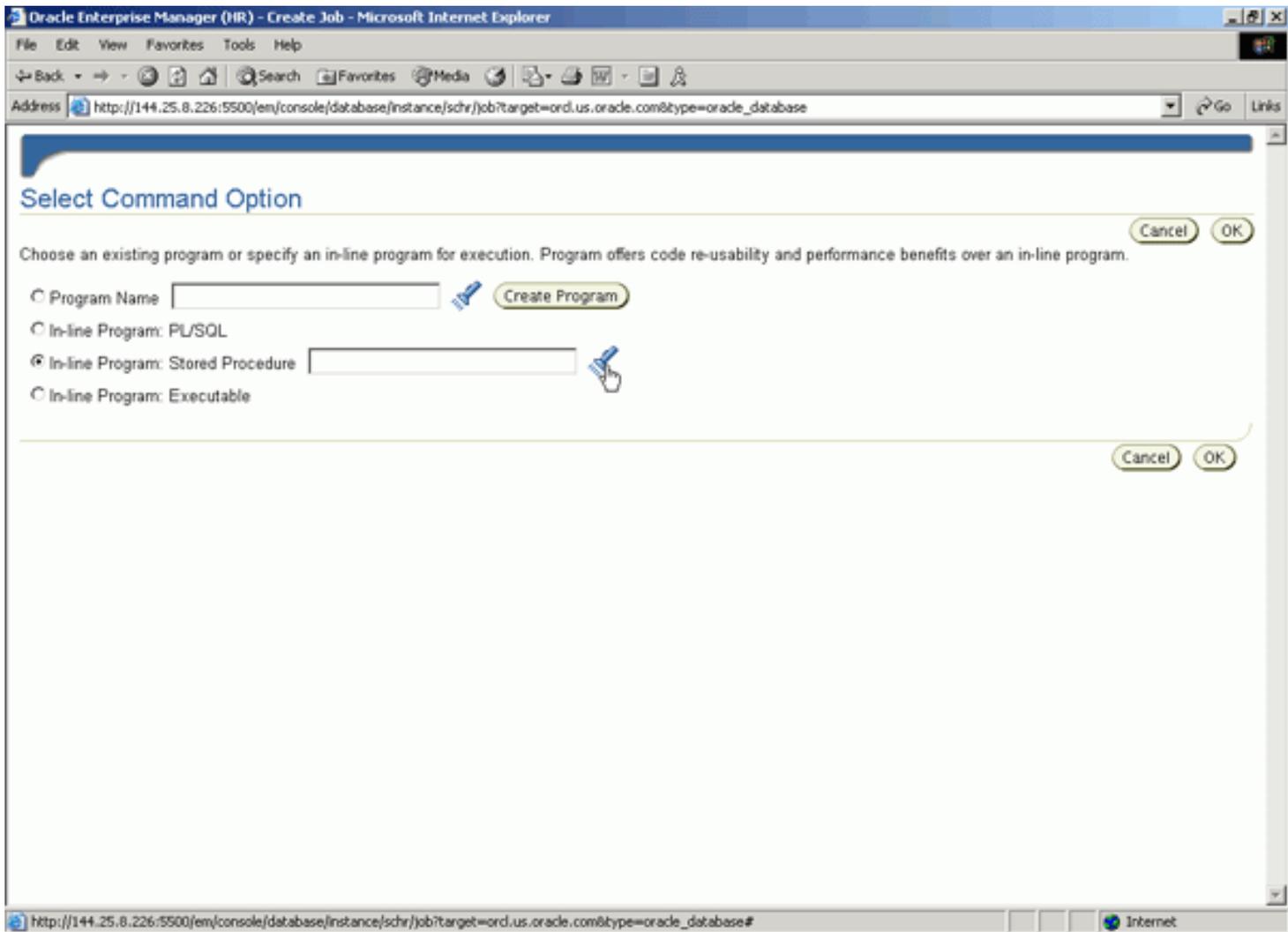
**Command**

Select the command type for this job, and specify the required information for that command type.

Command Type: **PL/SQL Block** [Change Command Type](#)

```
begin
-- Insert PL/SQL code here
end;
```

4. Select **In-line Program: Stored Procedure** and click the **search light** .



5. Enter **HR** for the Schema and click **Go** .

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

## Search and Select: Procedure

Cancel Select

### Search

To find your item, select a schema in the pulldown list and enter a word in the text field, then select the "Go" button. To see a list of all tables in the selected schema, clear the search box and click the "Go" button.

Schema

Object Name

Go

### Results

Previous 1-25 of 48 Next 23

Select	Owner	Name
<input checked="" type="radio"/>	DMSYS	VALIDATE_ODM
<input type="radio"/>	EXFSYS	EXF\$XPDUMPTAGSINFO
<input type="radio"/>	FLOWS_010309	DEVELOPMENT_SERVICE_ADMIN
<input type="radio"/>	FLOWS_010309	DEVELOPMENT_SERVICE_HOME
<input type="radio"/>	FLOWS_010309	DEVELOPMENT_SERVICE_HOME_LOGIN
<input type="radio"/>	FLOWS_010309	DEVELOPMENT_SERVICE_SIGNUP
<input type="radio"/>	FLOWS_010309	DS DATA WORKSHOP

http://144.25.8.226:5500/em/console/database/instance/schr/job?event=selProcName&state: Internet

6. Select **COALESCE\_INDX001** from the list and click **Select**.

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

## Search and Select: Procedure

Cancel Select

### Search

To find your item, select a schema in the pulldown list and enter a word in the text field, then select the "Go" button. To see a list of all tables in the selected schema, clear the search box and click the "Go" button.

Schema

Object Name  Go

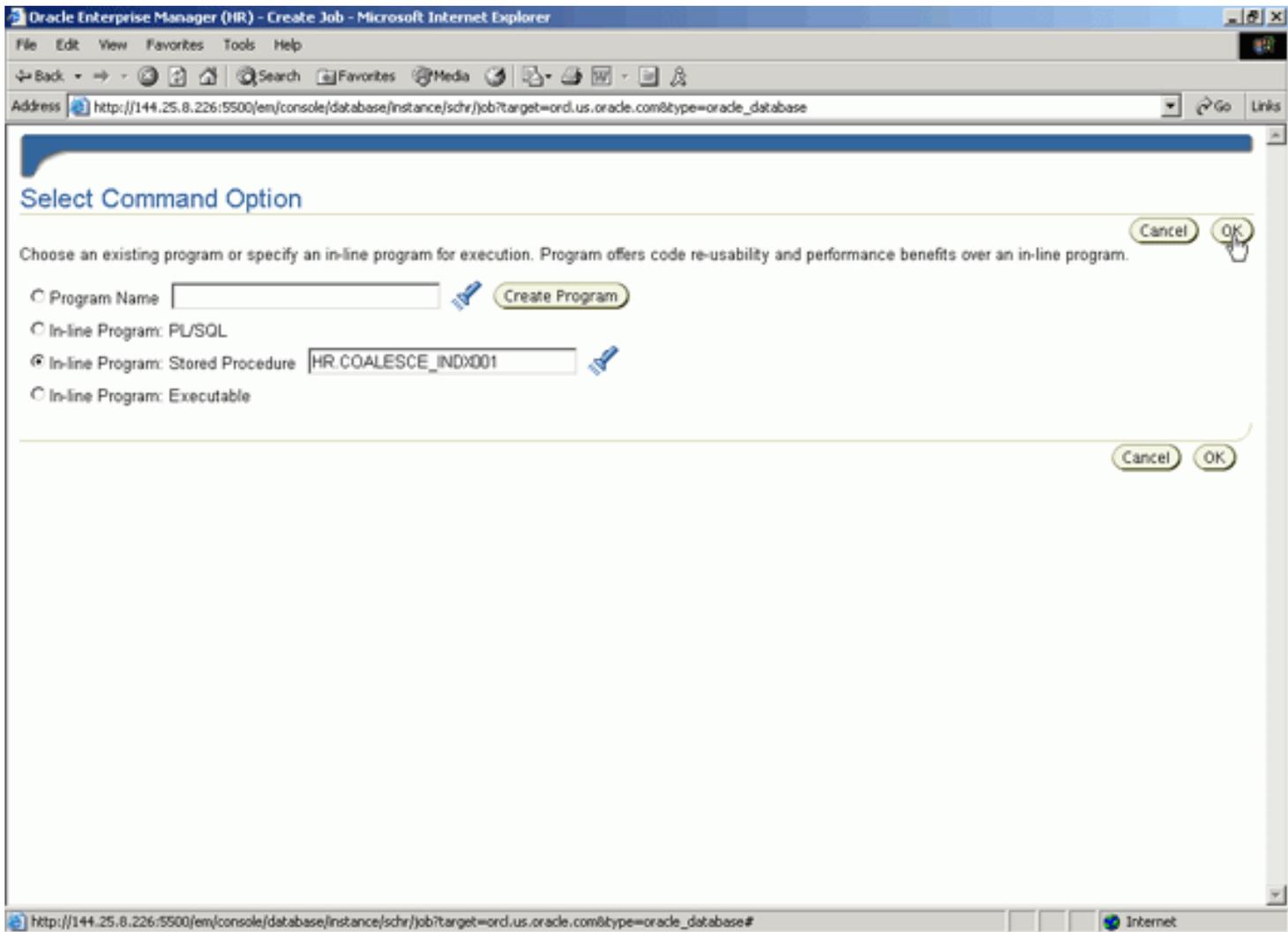
### Results

Select	Owner	Name
<input type="radio"/>	HR	ADD_JOB_HISTORY
<input checked="" type="radio"/>	HR	COALESCE_INDX001
<input type="radio"/>	HR	SECURE_DML

Cancel Select

javascript:lovSelect(window.opener.document.jobCommandForm.proc) Internet

7. Click **OK**.



8. Select the **Schedule** tab.

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

Database: orcl.us.oracle.com > Jobs > Create Job

## Create Job

Show SQL Cancel OK

**General** Schedule Options

Name: ALTER\_INDIX\_PROC001

Owner: HR

Enabled:  Yes  No

Description: This job will coalesce index HR.EMP\_NAME\_IX on the EMPLOYEES table

Logging Level: Log job runs only (RUNS)

Job Class: DEFAULT\_JOB\_CLASS [Create job Class](#)

Auto Drop: FALSE

Restartable: TRUE

### Command

Select the command type for this job, and specify the required information for that command type.

Command Type: **Stored Procedure** [Change Command Type](#)

Stored Procedure: HR.COALESCE\_INDIX001

**General** Schedule Options

9. Make sure Start is set to **Immediately** and click **OK**.

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

Database: orcl.us.oracle.com > Jobs > Create Job

## Create Job

Show SQL Cancel OK

General Schedule Options

Schedule Type: Standard

Time Zone: GMT -7:00

### Start

Immediately  
 Later

Date: Aug-14-2003  
(example: Dec-12-2002)

Time: 2:10:00 AM  PM

### Repeat

One Time Only  
 Interval

Frequency: 1 Days

### Repeat Until

Indefinite  
 Custom

Date: Aug-14-2003  
(example: Dec-12-2002)

Time: 2:20:00 AM  PM  
(Ignored except when repeating by minutes or hours.)

General Schedule Options

http://144.25.8.226:5500/em/console/database/instance/schr/job?target=orcl.us.oracle.com&type=oracle\_database#

Click the **Disabled** tab.

10.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?name=HR&pageName=scheduled&event=create\\_ok&oname=ALTER\\_INDX\\_PROC001&target=ord.us.orac](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?name=HR&pageName=scheduled&event=create_ok&oname=ALTER_INDX_PROC001&target=ord.us.orac)

ORACLE  
Enterprise Manager

Database: [orcl.us.oracle.com](#) > Jobs

**Confirmation**  
Job HR.ALTER\_INDX\_PROC001 has been created successfully

Jobs

Page Refreshed Aug 14, 2003 3:18:22 PM [Refresh](#) [Create](#)

**Scheduled** [Running](#) [Disabled](#) [Run History](#)

Select Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
No scheduled jobs found					

**Scheduled** [Running](#) [Disabled](#) [Run History](#)

[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=unscheduled&target=ord.us.oracle.com&type=oracle\\_data](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=unscheduled&target=ord.us.oracle.com&type=oracle_data)

Select ALTER\_INDX\_PROC001 .

11.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=unscheduled&target=orcl.us.oracle.com&type=oracle\_database

ORACLE Enterprise Manager Help Logout

Database: orcl.us.oracle.com > Jobs

Jobs

Page Refreshed Aug 14, 2003 3:18:22 PM Refresh Create

Scheduled Running Disabled Run History

A disabled job is the job which remains after execution or gets disabled.

Edit View Delete Create Like

Select	Name	Owner	Last Run Status	Last Run Date	Job Class	Previous Runs
<input checked="" type="radio"/>	ALTER_INDX001	HR	SUCCESS	Aug 14, 2003 3:06:22 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	ALTER_INDX_PROC001	HR	DISABLED	n/a	DEFAULT_JOB_CLASS	0

Scheduled Running Disabled Run History

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Help | Logout

http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&oname=ALTER\_INDX\_PROC001&event=edit&state=edit&target=0 Internet

Click **Yes** for Enabled and click **Apply** .

12.

The screenshot displays the Oracle Enterprise Manager (HR) console in a Microsoft Internet Explorer browser. The browser's address bar shows the URL: `http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&oname=ALTER_INDEX_PROC001&event=edit&state=edit&target=orc.us.oracle.com&type=orad`. The page title is "Oracle Enterprise Manager (HR) - Edit Job: HR.ALTER\_INDEX\_PROC001".

The main content area is titled "Edit Job: HR.ALTER\_INDEX\_PROC001" and includes navigation tabs for "General", "Schedule", and "Options". The "General" tab is active, showing the following configuration details:

- Name:** ALTER\_INDEX\_PROC001
- Owner:** HR
- Enabled:**  Yes  No
- Description:** This job will coalesce index HR.EMP\_NAME\_IX on the EMPLOYEES table
- Logging Level:** Log job runs only (RUNS) (Set how much logging pertaining to this job should be done)
- Job Class:** DEFAULT\_JOB\_CLASS (with a "Create Job Class" button)
- Auto Drop:** FALSE (Whether the job should remain after having completed)
- Restartable:** TRUE (Whether the job can be safely restarted (and should be restarted in case of failure))

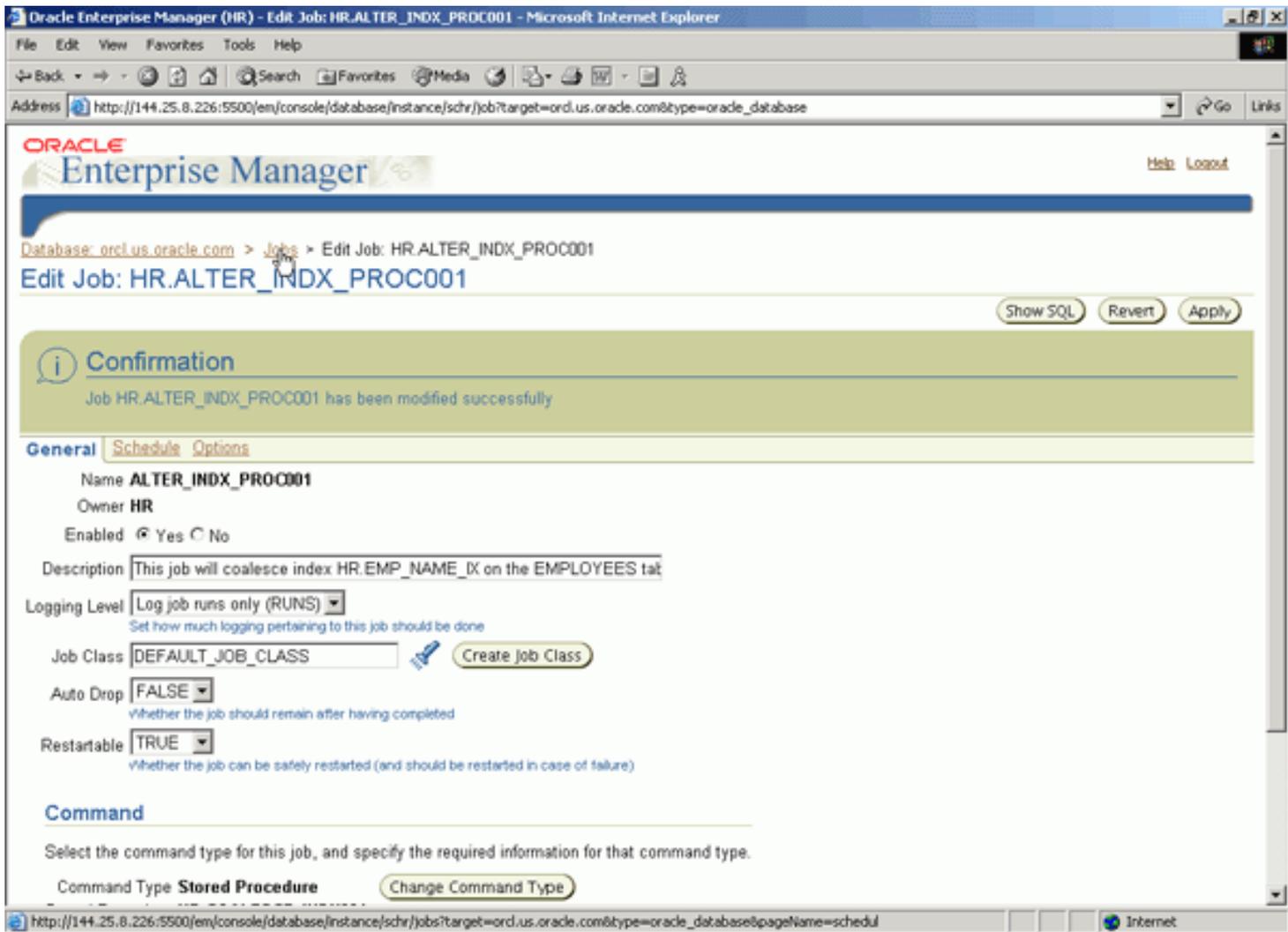
Below the configuration, the "Command" section is visible, showing:

- Command Type:** Stored Procedure (with a "Change Command Type" button)
- Stored Procedure:** HR.COALESCE\_INDEX001

At the bottom of the page, there are "Show SQL", "Revert", and "Apply" buttons. The "Apply" button is highlighted with a mouse cursor. The browser's status bar at the bottom shows "Internet".

Select the **Jobs** breadcrumb.

13.



Oracle Enterprise Manager (HR) - Edit Job: HR.ALTER\_INDEX\_PROC001 - Microsoft Internet Explorer

Database: orcl.us.oracle.com > Jobs > Edit Job: HR.ALTER\_INDEX\_PROC001

### Edit Job: HR.ALTER\_INDEX\_PROC001

Show SQL Revert Apply

**Confirmation**  
Job HR.ALTER\_INDEX\_PROC001 has been modified successfully

**General** Schedule Options

Name **ALTER\_INDEX\_PROC001**  
Owner **HR**  
Enabled  Yes  No

Description

Logging Level   
Set how much logging pertaining to this job should be done

Job Class  [Create Job Class](#)

Auto Drop   
Whether the job should remain after having completed

Restartable   
Whether the job can be safely restarted (and should be restarted in case of failure)

**Command**

Select the command type for this job, and specify the required information for that command type.

Command Type **Stored Procedure** [Change Command Type](#)

http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\_database&pageName=schedul

Click the **Run History** tab.

14.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\\_database&pageName=scheduled](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle_database&pageName=scheduled)

ORACLE Enterprise Manager Help Logout

Database: [orcl.us.oracle.com](#) > Jobs

## Jobs

Page Refreshed Aug 14, 2003 3:18:22 PM Refresh Create

[Scheduled](#) [Running](#) [Disabled](#) [Run History](#)

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
	No scheduled jobs found					

[Scheduled](#) [Running](#) [Disabled](#) [Run History](#)

Help | Logout

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[About Oracle Enterprise Manager Database Controls](#)

[http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle_database) Internet

Notice that your job ran successfully. Select **ALTER\_INDX\_PROC001** .

15.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=ord.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=ord.us.oracle.com&type=oracle_database)

ORACLE Enterprise Manager [Help](#) [Logout](#)

Database: [ord.us.oracle.com](#) > Jobs

Jobs

Page Refreshed Aug 14, 2003 3:21:21 PM [Refresh](#) [Create](#)

[Scheduled](#) [Running](#) [Disabled](#) [Run History](#)

[Purge All Logs](#)

Select	Name	Owner	Status	Completion Date	Run Duration (minutes)
<input checked="" type="radio"/>	<a href="#">ALTER_INDX_PROC001</a>	HR	SUCCESS	Aug 14, 2003 3:20:01 PM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_INDX001</a>	HR	SUCCESS	Aug 14, 2003 3:06:22 PM -07:00	0.0

[View](#) [Purge Log](#)

[Scheduled](#) [Running](#) [Disabled](#) [Run History](#)

[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&name=ALTER\\_INDX\\_PROC001&target=ord.us.orac](http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&name=ALTER_INDX_PROC001&target=ord.us.orac) Internet

You may view the logged history of the job. When done, click your **Database** breadcrumb.

16.

Oracle Enterprise Manager (HR) - View Job: HR.ALTER\_INDEX\_PROC001 - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&oname=ALTER\_INDEX\_PROC001&target=ord.us.oracle.com&type=oracle\_database

Database: [ord.us.oracle.com](#) > [Jobs](#) > View Job: HR.ALTER\_INDEX\_PROC001

**View Job: HR.ALTER\_INDEX\_PROC001** [Edit] [OK]

General	Schedule	Options
Name: <b>ALTER_INDEX_PROC001</b>	Start Date	Priority: <b>Medium</b>
Owner: <b>HR</b>	End Date	Schedule Limit (minutes)
Enabled: <b>TRUE</b>	Frequency	Maximum Run Duration (minutes)
Description: <b>This job will coalesce index HR.EMP_NAME_IX on the EMPLOYEES table.</b>		Maximum Runs
Logging Level: <b>Log job runs only (RUNS)</b>		Maximum Failures
Job Class: <b>DEFAULT_JOB_CLASS</b>		Job Weight: <b>1</b>
Auto Drop: <b>FALSE</b>		Instance Stickiness: <b>FALSE</b>
Restartable: <b>TRUE</b>		

**Command**

Command Type: **Stored Procedure**  
 Stored Procedure: **HR.COALESCE\_INDEX001**

**Operation Detail** [View]

Select	Log ID	Log Date	Operation	Status
<input checked="" type="checkbox"/>	25	Aug 14, 2003 3:20:01 PM -07:00	SUCCESS	

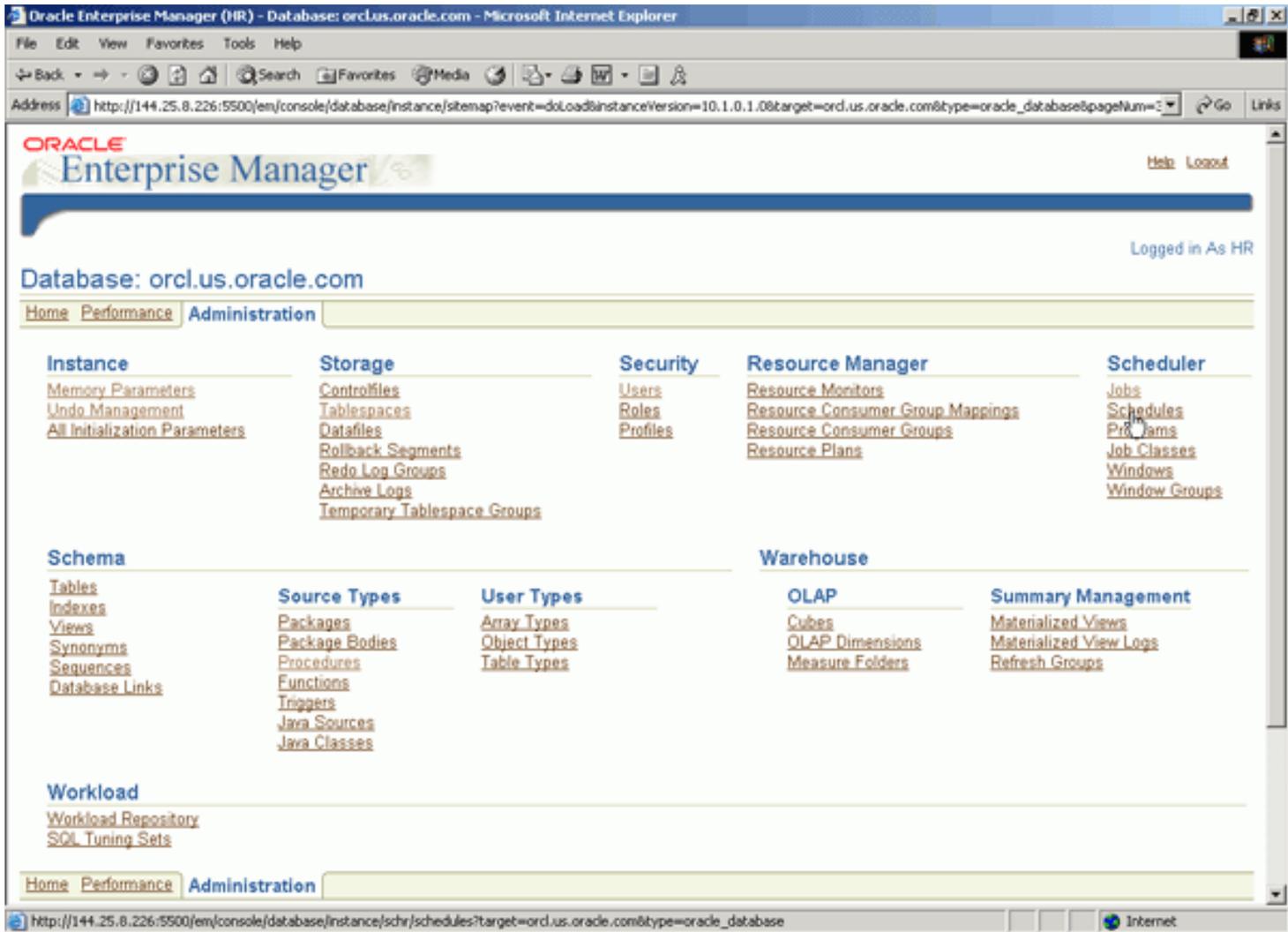
http://144.25.8.226:5500/em/console/database/home?event=doLoad&pageNum=3

## Creating a Saved Schedule

[Back to Topic List](#)

At this point you want to create a schedule that will run at 11:00PM every night for the next year. Perform the following:

1. Select the **Schedules** link.



The screenshot shows the Oracle Enterprise Manager Administration page for the database 'orcl.us.oracle.com'. The page is viewed in Microsoft Internet Explorer. The top navigation bar includes 'Home', 'Performance', and 'Administration'. The 'Administration' section is expanded, showing various categories: Instance, Storage, Security, Resource Manager, Scheduler, Schema, Warehouse, and Workload. The 'Scheduler' category is highlighted, and its sub-links are visible: Jobs, Schedules, PR Jobs, Job Classes, Windows, and Window Groups. The 'Schedules' link is the target of the instruction.

Oracle Enterprise Manager  
Database: orcl.us.oracle.com  
Home Performance Administration  
Instance: Memory Parameters, Undo Management, All Initialization Parameters  
Storage: Controlfiles, Tablespaces, Datafiles, Rollback Segments, Redo Log Groups, Archive Logs, Temporary Tablespace Groups  
Security: Users, Roles, Profiles  
Resource Manager: Resource Monitors, Resource Consumer Group Mappings, Resource Consumer Groups, Resource Plans  
Scheduler: Jobs, Schedules, PR Jobs, Job Classes, Windows, Window Groups  
Schema: Tables, Indexes, Views, Synonyms, Sequences, Database Links  
Source Types: Packages, Package Bodies, Procedures, Functions, Triggers, Java Sources, Java Classes  
User Types: Array Types, Object Types, Table Types  
Warehouse: OLAP (Cubes, OLAP Dimensions, Measure Folders), Summary Management (Materialized Views, Materialized View Logs, Refresh Groups)  
Workload: Workload Repository, SQL Tuning Sets  
Home Performance Administration  
http://144.25.8.226:5500/em/console/database/instance/schr/schedules?target=orcl.us.oracle.com&type=oracle\_database

2. Click **Create** to create a new schedule.

Oracle Enterprise Manager (HR) - Schedules - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/schedules?target=orcl.us.oracle.com&type=oracle\_database

ORACLE Enterprise Manager

Database: orcl.us.oracle.com > Schedules

Schedules

Page Refreshed Aug 14, 2003 3:23:57 PM

Refresh Create Edit View Delete Create Like

Select	Name	Owner	Start Date	End Date	Description
<input checked="" type="checkbox"/>	DAILY_PURGE_SCHEDULE	SYS			

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[About Oracle Enterprise Manager Database Control](#)

Help | Logout

http://144.25.8.226:5500/em/console/database/instance/schr/schedules?target=orcl.us.oracle.com&type=oracle\_database#

3. Enter the following information, then click **OK**.

Name: **Sched001**

Owner: **HR**

Description: **Run at 11:00PM every night for the next year**

Start: **Later**

Date: **Today's date**

Time: **11:00PM**

Frequency: **1 Days**

Repeat Until: **Custom**

Date: **One year from today's date**

Time **11:00PM**

Oracle Enterprise Manager (HR) - Create Schedule - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/schedule?event=do\\_create&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/schedule?event=do_create&target=orcl.us.oracle.com&type=oracle_database)

ORACLE  
Enterprise Manager [Help](#) [Logout](#)

Database: [orcl.us.oracle.com](#) > [Schedules](#) > Create Schedule

## Create Schedule

[Show SQL](#) [Cancel](#) [OK](#)

Name

Owner

Description

### Schedule

Time Zone

#### Start

Immediately

Later

Date   
(example: Dec-12-2002)

Time     AM  PM

#### Repeat

Frequency

#### Repeat Until

Indefinite

Custom

Date   
(example: Dec-12-2002)

Time     AM  PM

[http://144.25.8.226:5500/em/console/database/instance/schr/schedule?event=do\\_create&target=orcl.us.oracle.com&type=oracle\\_datab](http://144.25.8.226:5500/em/console/database/instance/schr/schedule?event=do_create&target=orcl.us.oracle.com&type=oracle_datab) Internet

4. Click the **Database** breadcrumb.

Oracle Enterprise Manager (HR) - Schedules - Microsoft Internet Explorer

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/schedules?sname=HR&event=create\\_oib&name=SCHED001&target=ord.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/schedules?sname=HR&event=create_oib&name=SCHED001&target=ord.us.oracle.com&type=oracle_database)

ORACLE Enterprise Manager [Help](#) [Logout](#)

Database: [ord.us.oracle.com](#) > Schedules

**Confirmation**  
Schedule HR.SCHED001 has been created successfully

**Schedules** Page Refreshed Aug 14, 2003 3:27:04 PM [Refresh](#)

[Create](#)

[Edit](#) [View](#) [Delete](#) [Create Like](#)

Select	Name	Owner	Start Date	End Date	Description
<input checked="" type="radio"/>	<a href="#">DAILY_PURGE_SCHEDULE</a>	SYS			
<input type="radio"/>	<a href="#">SCHED001</a>	HR	Aug 14, 2003 11:00:00 PM -07:00	Aug 14, 2004 11:00:00 PM -07:00	Run at 11:00PM every night for the next year

[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

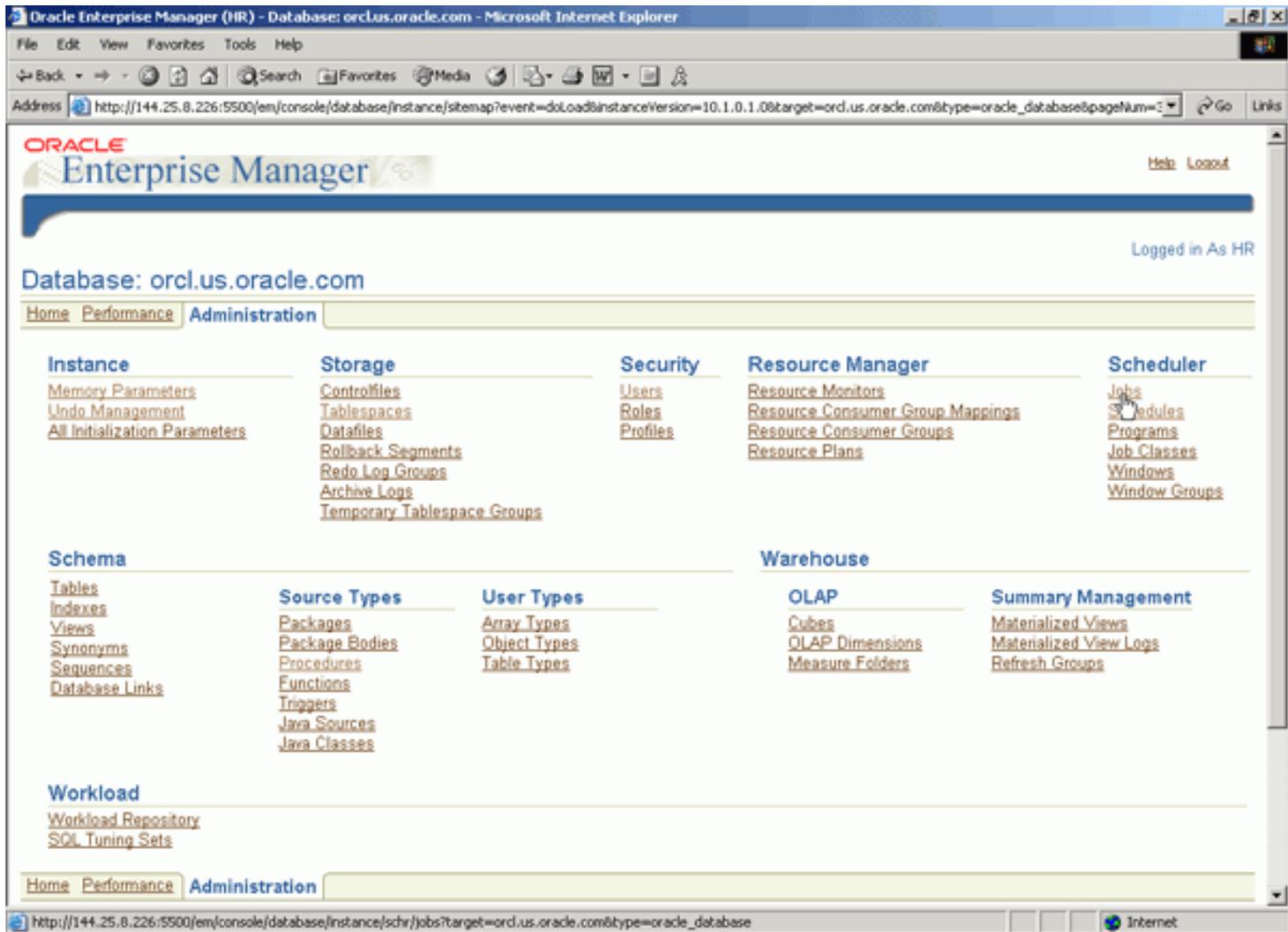
Address: <http://144.25.8.226:5500/em/console/database/home?event=doLoad&pageNum=3> Internet

## Editing a Job to Use a Saved Schedule

[Back to Topic List](#)

You would like to associated the saved schedule you just created, to a job. Perform the following:

1. Select the **Jobs** link.



The screenshot displays the Oracle Enterprise Manager (EM) console interface. The browser title is "Oracle Enterprise Manager (EM) - Database: orcl.us.oracle.com - Microsoft Internet Explorer". The address bar shows the URL: [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=ord.us.oracle.com&type=oracle\\_database&pageNum=3](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=ord.us.oracle.com&type=oracle_database&pageNum=3). The page header includes the Oracle logo and "Enterprise Manager" text, with "Help" and "Logout" links. The user is logged in as "HR". The main navigation bar shows "Home", "Performance", and "Administration" tabs. The "Administration" tab is active, displaying a grid of categories: Instance, Storage, Security, Resource Manager, Scheduler, Schema, Warehouse, and Workload. The "Scheduler" category is expanded, showing links for "Jobs", "Schedules", "Programs", "Job Classes", "Windows", and "Window Groups". The "Jobs" link is highlighted with a mouse cursor. The footer of the page shows the URL: [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=ord.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=ord.us.oracle.com&type=oracle_database).

2. Click the **Disabled** tab.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=ord.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=ord.us.oracle.com&type=oracle_database) Go Links

ORACLE  
Enterprise Manager [Help](#) [Logout](#)

Database: [ord.us.oracle.com](#) > Jobs

## Jobs

Page Refreshed Aug 14, 2003 3:18:22 PM [Refresh](#) [Create](#)

[Scheduled](#) [Running](#) [Disabled](#) [Run History](#)

Select Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
No scheduled jobs found					

[Scheduled](#) [Running](#) [Disabled](#) [Run History](#)

[Help](#) | [Logout](#)

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[http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=unscheduled&target=ord.us.oracle.com&type=oracle\\_data](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=unscheduled&target=ord.us.oracle.com&type=oracle_data) Internet

### 3. Select ALTER\_INDX001 .

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=unscheduled&target=orcl.us.oracle.com&type=oracle\_database

ORACLE Enterprise Manager

Database: orcl.us.oracle.com > Jobs

Jobs

Page Refreshed Aug 14, 2003 3:18:22 PM Refresh Create

Scheduled Running Disabled Run History

A disabled job is the job which remains after execution or gets disabled.

Edit View Delete Create Like

Select	Name	Owner	Last Run Status	Last Run Date	Job Class	Previous Runs
<input checked="" type="radio"/>	ALTER_INDX001	HR	SUCCESS	Aug 14, 2003 3:06:22 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	ALTER_INDX_PROC001	HR	DISABLED	n/a	DEFAULT_JOB_CLASS	0

Scheduled Running Disabled Run History

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[About Oracle Enterprise Manager Database Controls](#)

Help | Logout

http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&oname=ALTER\_INDX001&event=edit&state=edit&target=orcl.u Internet

- Click **Yes** for Enabled and then click the **Schedule** tab.

Oracle Enterprise Manager (HR) - Edit Job: HR.ALTER\_INDX001 - Microsoft Internet Explorer

Database: orcl.us.oracle.com > Jobs > Edit Job: HR.ALTER\_INDX001

### Edit Job: HR.ALTER\_INDX001

Show SQL Revert Apply

**General** Schedule Options

Name **ALTER\_INDX001**

Owner **HR**

Enabled  Yes  No

Description This job will coalesce index HR.EMP\_NAME\_IX on the EMPLOYEES table

Logging Level **Log job runs only (RUNS)**  
Set how much logging pertaining to this job should be done

Job Class **DEFAULT\_JOB\_CLASS** [Create Job Class](#)

Auto Drop **FALSE**  
Whether the job should remain after having completed

Restartable **TRUE**  
Whether the job can be safely restarted (and should be restarted in case of failure)

**Command**

Select the command type for this job, and specify the required information for that command type.

Command Type **PL/SQL Block** [Change Command Type](#)

```
EXECUTE IMMEDIATE 'alter index HR.EMP_NAME_IX coalesce;'
```

5. Select the Schedule Type **Use Pre-defined Schedule**, then click on the **search light** to select a schedule.

Oracle Enterprise Manager (HR) - Edit Job: HR.ALTER\_INDX001 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/job?target=ord.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/job?target=ord.us.oracle.com&type=oracle_database) Go Links

ORACLE  
Enterprise Manager Help Logout

Database: [ord.us.oracle.com](#) > [Jobs](#) > Edit Job: HR.ALTER\_INDX001

Edit Job: HR.ALTER\_INDX001

Show SQL Revert Apply

General Schedule Options

Schedule Type Use Pre-defined Schedule

Select an existing schedule.

Schedule  View Details Create Schedule

General Schedule Options

Show SQL Revert Apply

Help | Logout

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[About Oracle Enterprise Manager Database Console](#)

[http://144.25.8.226:5500/em/console/database/instance/schr/job?target=ord.us.oracle.com&type=oracle\\_database#](http://144.25.8.226:5500/em/console/database/instance/schr/job?target=ord.us.oracle.com&type=oracle_database#) Internet

6. Select **SCHED001** and click **Select**.

Oracle Enterprise Manager (HR) - Edit Job: HR.ALTER\_IND001 - Microsoft Internet Explorer

## Search and Select: Schedule

Cancel Select

### Search

To find your item, select a schema in the pulldown list and enter a word in the text field, then select the "Go" button. To see a list of all tables in the selected schema, clear the search box and click the "Go" button.

Schema

Object Name  Go

### Results

Select	Owner	Name
<input checked="" type="radio"/>	HR	SCHED001
<input type="radio"/>	SYS	DAILY_PURGE_SCHEDULE

Cancel Select

javascript:lovSelect(window.opener.document.scheduleForm.scheduleName) Internet

7. Click **Apply**.

Oracle Enterprise Manager (HR) - Edit Job: HR.ALTER\_INDX001 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/job?target=ord.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/job?target=ord.us.oracle.com&type=oracle_database) Go Links

ORACLE  
Enterprise Manager [Help](#) [Logout](#)

Database: [ord.us.oracle.com](#) > [Jobs](#) > Edit Job: HR.ALTER\_INDX001

Edit Job: HR.ALTER\_INDX001

[General](#) [Schedule](#) [Options](#) [Show SQL](#) [Revert](#) [Apply](#)

Schedule Type

Select an existing schedule.

Schedule  [View Details](#) [Create Schedule](#)

[General](#) [Schedule](#) [Options](#) [Show SQL](#) [Revert](#) [Apply](#)

[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Control](#)

[http://144.25.8.226:5500/em/console/database/instance/schr/job?target=ord.us.oracle.com&type=oracle\\_database#](http://144.25.8.226:5500/em/console/database/instance/schr/job?target=ord.us.oracle.com&type=oracle_database#) Internet

8. Click the **Jobs** breadcrumb.

Oracle Enterprise Manager (HR) - Edit Job: HR.ALTER\_IND001 - Microsoft Internet Explorer

Database: orcl.us.oracle.com > Jobs > Edit Job: HR.ALTER\_IND001

### Edit Job: HR.ALTER\_IND001

Show SQL Revert Apply

**Confirmation**  
Job HR.ALTER\_IND001 has been modified successfully

General **Schedule** Options

Schedule Type Use Pre-defined Schedule

Select an existing schedule.

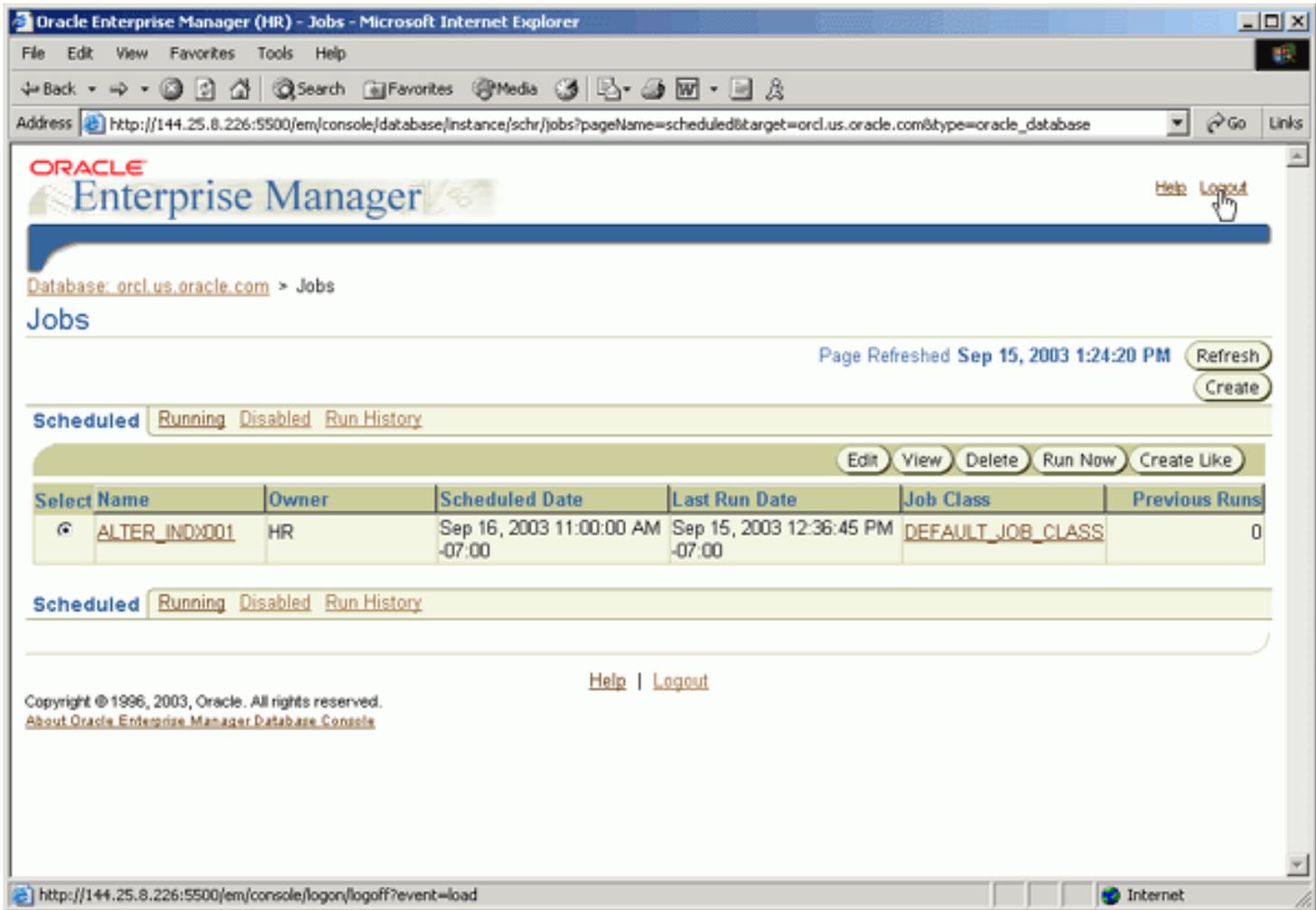
Schedule HR.SCHED001 View Details Create Schedule

**General**  
Name SCHE001  
Owner HR  
Description Run at 11:00PM every night for the next year

**Schedule**  
Start Date Aug 14, 2003 11:00:00 PM -07:00  
End Date Aug 14, 2004 11:00:00 PM -07:00  
Frequency 1 Days

General **Schedule** Options

9. Your job should appear. You may need to click on the **Scheduled** tab first and click **Refresh** . If you job still does not appear, you may need to logout of Enterprise Manager and log back in again. When done, click **Logout** .



Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=scheduled&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=scheduled&target=orcl.us.oracle.com&type=oracle_database) Go Links

ORACLE  
Enterprise Manager [Help](#) [Logout](#)

Database: [orcl.us.oracle.com](#) > Jobs

## Jobs

Page Refreshed Sep 15, 2003 1:24:20 PM [Refresh](#)  
[Create](#)

**Scheduled** [Running](#) [Disabled](#) [Run History](#)

[Edit](#) [View](#) [Delete](#) [Run Now](#) [Create Like](#)

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
<input type="checkbox"/>	<a href="#">ALTER_IND%001</a>	HR	Sep 16, 2003 11:00:00 AM -07:00	Sep 15, 2003 12:36:45 PM -07:00	<a href="#">DEFAULT_JOB_CLASS</a>	0

**Scheduled** [Running](#) [Disabled](#) [Run History](#)

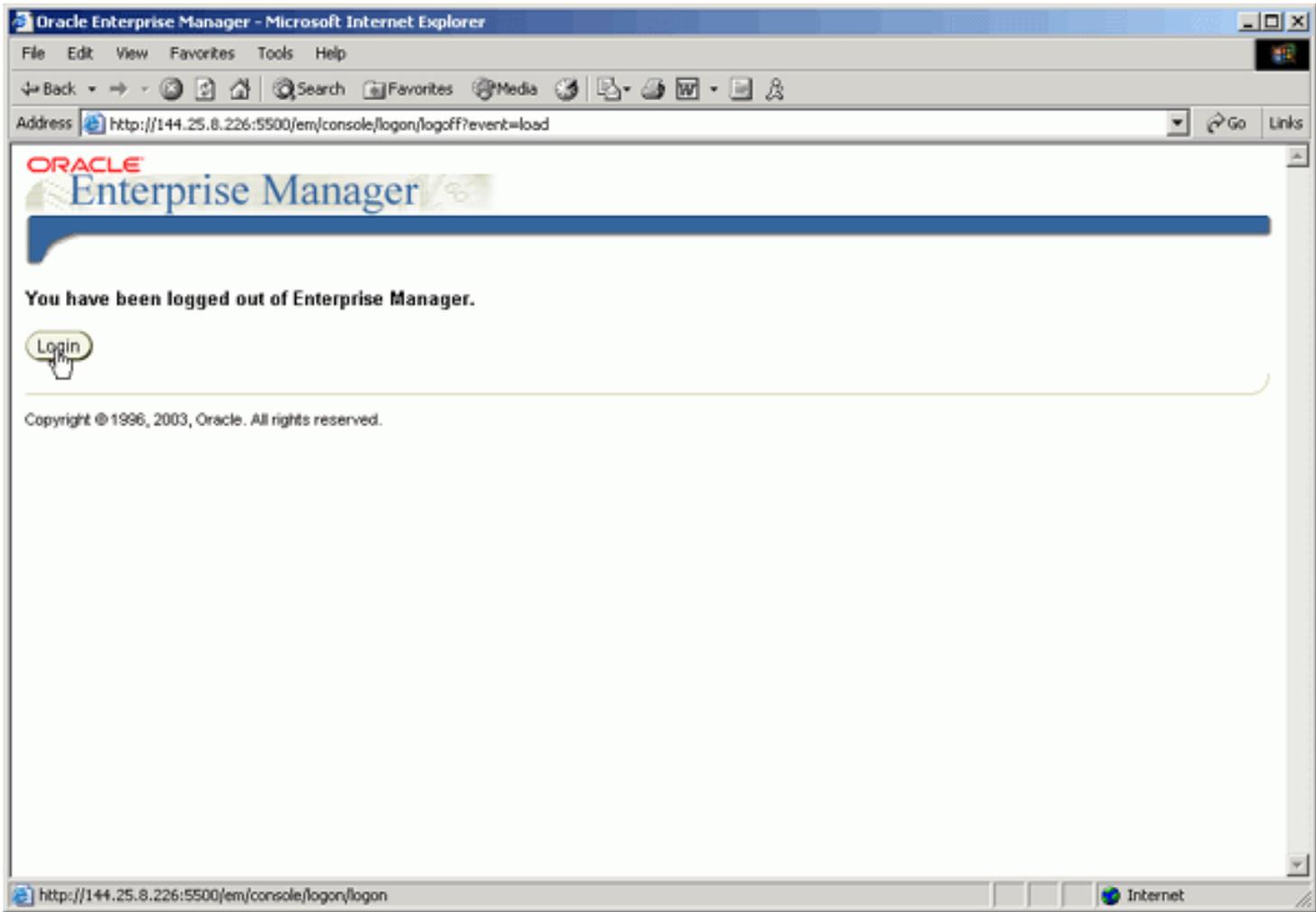
[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Console](#)

<http://144.25.8.226:5500/em/console/logon/logoff?event=load> Internet

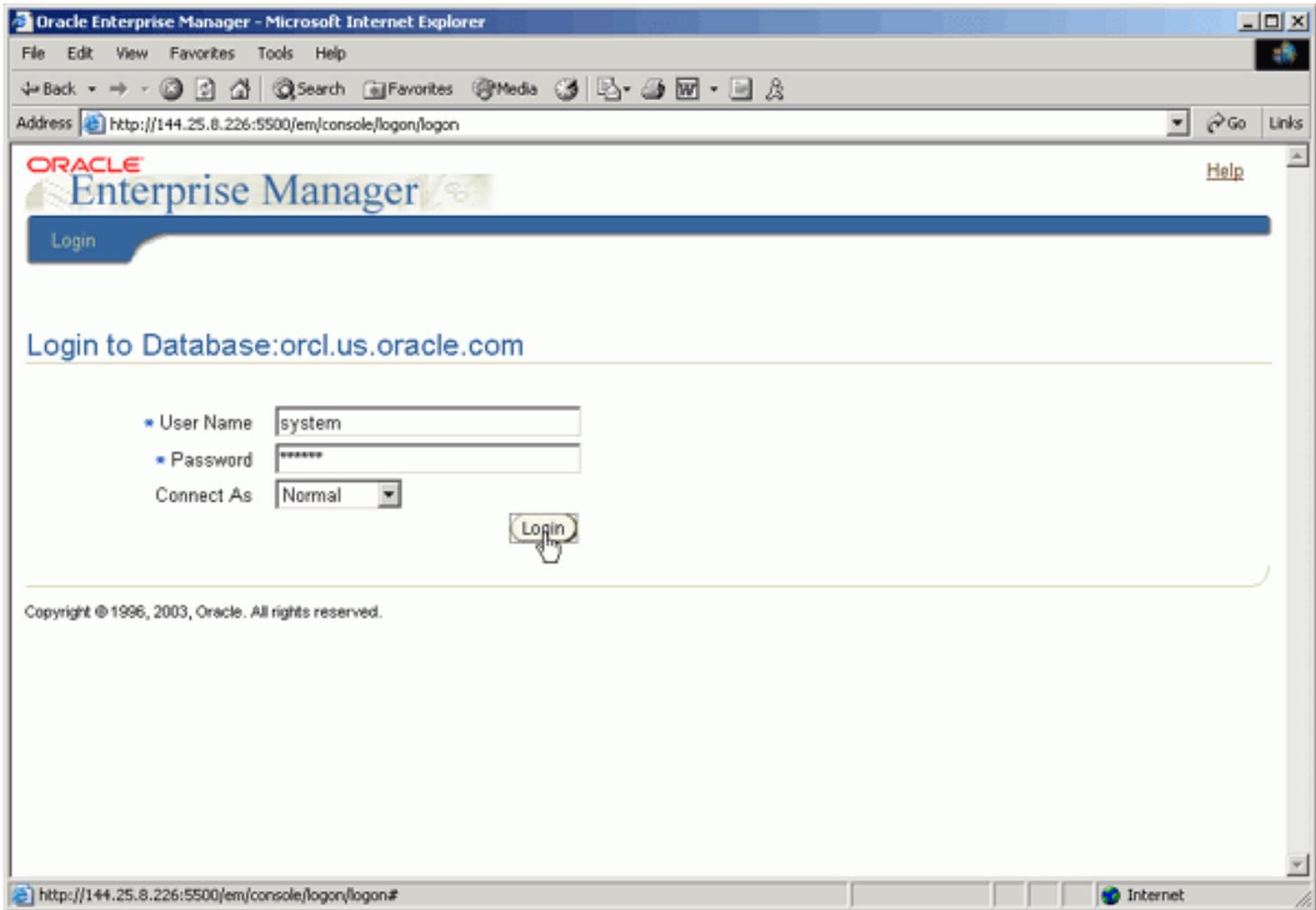
Click **Login** .

10.



Enter **system/<password>** and click **Login** .

11.



## Creating a Job Class

[Back to Topic List](#)

A job class defines a category of jobs that share common resource usage requirements and other characteristics. Perform the following:

1. Click **Job Classes**.

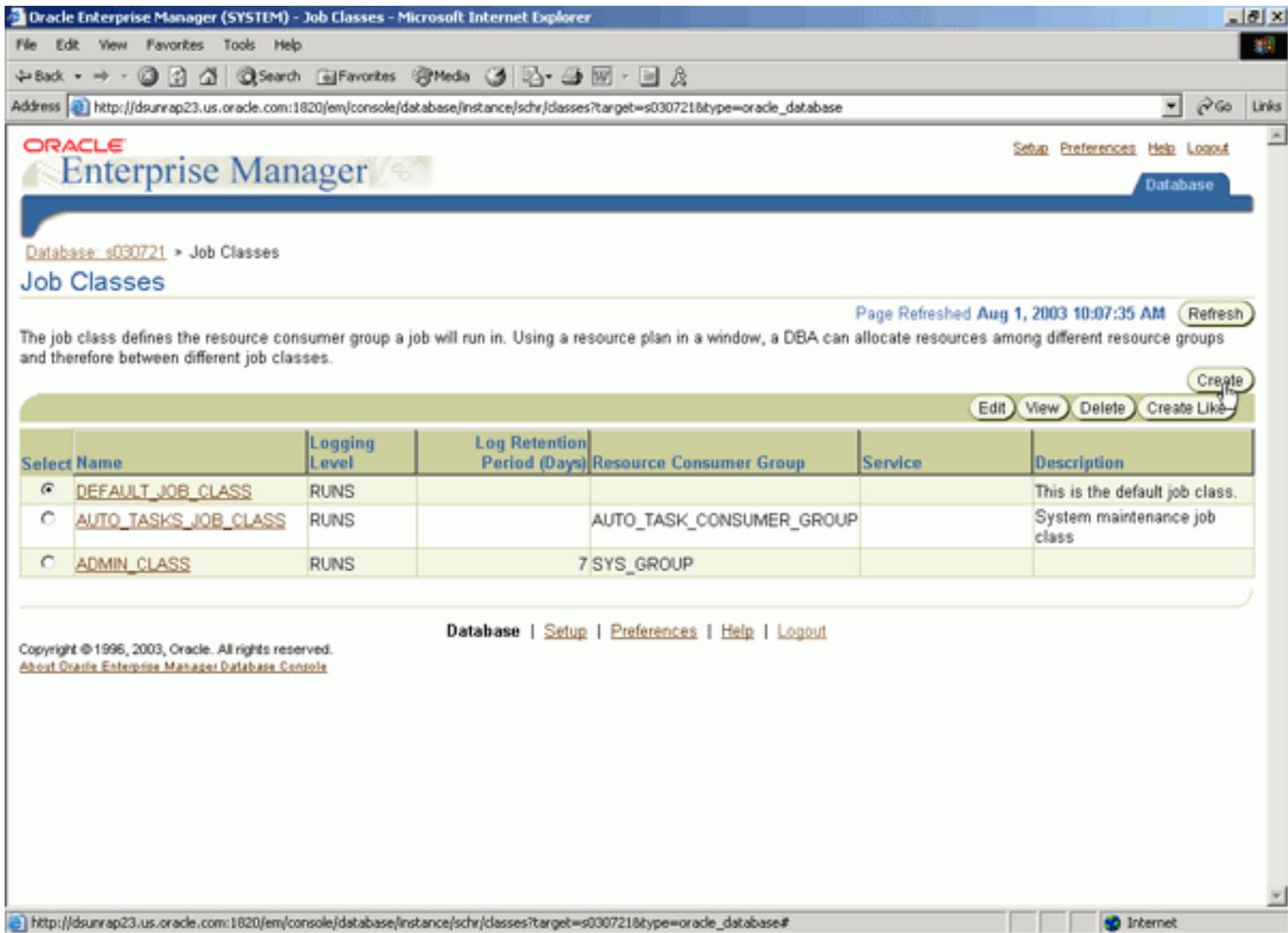
The screenshot displays the Oracle Enterprise Manager (SYSTEM) interface for database s030721. The browser window title is "Oracle Enterprise Manager (SYSTEM) - Database: s030721 - Microsoft Internet Explorer". The address bar shows the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle\\_database&pageNum=3](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle_database&pageNum=3). The page header includes the Oracle logo, "Enterprise Manager", and navigation links: "Setup", "Preferences", "Help", "Logout". The user is logged in as "SYSTEM".

The main content area is titled "Database: s030721" and features a navigation bar with "Home", "Performance", "Administration", and "Maintenance". The "Administration" tab is active, showing a grid of management categories:

- Instance**: [Memory Parameters](#), [Undo Management](#), [All Initialization Parameters](#)
- Storage**: [Controlfiles](#), [Tablespaces](#), [Datafiles](#), [Rollback Segments](#), [Redo Log Groups](#), [Archive Logs](#), [Temporary Tablespace Groups](#)
- Security**: [Users](#), [Roles](#), [Profiles](#)
- Resource Manager**: [Resource Monitors](#), [Resource Consumer Group Mappings](#), [Resource Consumer Groups](#), [Resource Plans](#)
- Scheduler**: [Jobs](#), [Schedules](#), [Programs](#), [Job Classes](#), [Windows](#), [Window Groups](#)
- Schema**: [Tables](#), [Indexes](#), [Views](#), [Synonyms](#), [Sequences](#), [Database Links](#)
- Source Types**: [Packages](#), [Package Bodies](#), [Procedures](#), [Functions](#), [Triggers](#), [Java Sources](#), [Java Classes](#)
- User Types**: [Array Types](#), [Object Types](#), [Table Types](#)
- Warehouse**: [OLAP](#) (Cubes, OLAP Dimensions, Measure Folders), [Summary Management](#) (Materialized Views, Materialized View Logs, Refresh Groups)
- Configuration Management**: [Last Collected Configuration](#), [Database Usage Statistics](#)
- Workload**: [Workload Repository](#), [SQL Tuning Sets](#)

The bottom navigation bar is identical to the top one. The browser address bar at the bottom shows the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/classes?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/classes?target=s030721&type=oracle_database).

2. Click **Create**.



The screenshot shows the Oracle Enterprise Manager interface for Job Classes. The page title is "Oracle Enterprise Manager (SYSTEM) - Job Classes - Microsoft Internet Explorer". The address bar shows the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/classes?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/classes?target=s030721&type=oracle_database). The page is titled "Job Classes" and includes a "Refresh" button showing the page was refreshed on Aug 1, 2003 10:07:35 AM. A description states: "The job class defines the resource consumer group a job will run in. Using a resource plan in a window, a DBA can allocate resources among different resource groups and therefore between different job classes." Below this is a table of job classes with columns: Select, Name, Logging Level, Log Retention Period (Days), Resource Consumer Group, Service, and Description. The table contains three rows: DEFAULT\_JOB\_CLASS (RUNS, empty, empty, empty), AUTO\_TASKS\_JOB\_CLASS (RUNS, empty, AUTO\_TASK\_CONSUMER\_GROUP, empty), and ADMIN\_CLASS (RUNS, 7, SYS\_GROUP, empty). Action buttons (Edit, View, Delete, Create Like, Create) are visible above the table. The footer includes copyright information and navigation links.

Select	Name	Logging Level	Log Retention Period (Days)	Resource Consumer Group	Service	Description
<input checked="" type="radio"/>	<a href="#">DEFAULT_JOB_CLASS</a>	RUNS				This is the default job class.
<input type="radio"/>	<a href="#">AUTO_TASKS_JOB_CLASS</a>	RUNS		AUTO_TASK_CONSUMER_GROUP		System maintenance job class
<input type="radio"/>	<a href="#">ADMIN_CLASS</a>	RUNS	7	SYS_GROUP		

- Enter the following information and click the search light next to **Resource Consumer Group**.

Name: **compute\_class001**

Description: **This job class contains all the compute jobs**

Logging Level: **log job runs only (RUNS)**

Log Retention Period: **7**

Oracle Enterprise Manager (SYSTEM) - Create Job Class - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/class?event=do\\_create&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/class?event=do_create&target=s030721&type=oracle_database)

ORACLE Enterprise Manager Database

Database: s030721 > Job Classes > Create Job Class

### Create Job Class

Show SQL Cancel OK

Name:

Description:

Logging Level:

Log Retention Period (Days):

Resource Consumer Group:

Service:

Show SQL Cancel OK

Database | [Setup](#) | [Preferences](#) | [Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/class?event=do\\_create&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/class?event=do_create&target=s030721&type=oracle_database) Internet

4. Select the **LOW\_GROUP** consumer group and click **Select** .

Oracle Enterprise Manager (SYSTEM) - Create Job Class - Microsoft Internet Explorer

## Search and Select: Resource Consumer Group

Cancel Select

### Search

To find your item, select a schema in the pulldown list and enter a word in the text field, then select the "Go" button. To see a list of all tables in the selected schema, clear the search box and click the "Go" button.

Object Name  Go

### Results

Select	Name
<input type="radio"/>	AUTO_TASK_CONSUMER_GROUP
<input type="radio"/>	DEFAULT_CONSUMER_GROUP
<input checked="" type="radio"/>	LOW_GROUP
<input type="radio"/>	OTHER_GROUPS
<input type="radio"/>	SCHED_RCG
<input type="radio"/>	SYS_GROUP

Cancel Select

javascript:lovSelect(window.opener.document.generalForm.rscGroup) Internet

5. Click **OK**.

Oracle Enterprise Manager (SYSTEM) - Create Job Class - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/class?event=do\\_create&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/class?event=do_create&target=s030721&type=oracle_database)

ORACLE  
Enterprise Manager

Setup Preferences Help Logout

Database

Database: s030721 > Job Classes > Create Job Class

### Create Job Class

Show SQL Cancel OK

Name:

Description:

Logging Level:

Log Retention Period (Days):

Resource Consumer Group:

Service:

Show SQL Cancel OK

Database | Setup | Preferences | Help | Logout

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[About Oracle Enterprise Manager Database Controls](#)

[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/class?event=do\\_create&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/class?event=do_create&target=s030721&type=oracle_database) Internet

- Your job class has been created. Click your **Database** breadcrumb.

Oracle Enterprise Manager (SYSTEM) - Job Classes - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/classes?event=create\_ok&oname=COMPUTE\_CLASS001&target=s030721&type=oracle\_database

Database: s030721 > Job Classes

**Confirmation**  
Job Class COMPUTE\_CLASS001 has been created successfully

**Job Classes** Page Refreshed Aug 1, 2003 10:11:18 AM Refresh

The job class defines the resource consumer group a job will run in. Using a resource plan in a window, a DBA can allocate resources among different resource groups and therefore between different job classes.

Create Edit View Delete Create Like

Select	Name	Logging Level	Log Retention Period (Days)	Resource Consumer Group	Service	Description
<input checked="" type="radio"/>	DEFAULT_JOB_CLASS	RUNS				This is the default job class.
<input type="radio"/>	AUTO_TASKS_JOB_CLASS	RUNS		AUTO_TASK_CONSUMER_GROUP		System maintenance job class
<input type="radio"/>	ADMIN_CLASS	RUNS	7	SYS_GROUP		
<input type="radio"/>	COMPUTE_CLASS001	RUNS	7	LOW_GROUP		This job class contains all jobs related to the administration of the database.

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About Oracle Enterprise Manager Database Controls

Database | Setup | Preferences | Help | Logout

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle\_database&pageN

7. A user needs to have EXECUTE privilege on a job class to create jobs in that job class. Open **SQL\*Plus** and execute the following commands:

```
connect system/<password>
grant execute on sys.compute_class001 to HR;
```

## Creating a Window

[Back to Topic List](#)

A window is represented by an interval of time with a well-defined beginning and end and is used to activate different resource plans at different times. Perform the following:

1. Click **Windows**.

The screenshot shows the Oracle Enterprise Manager (SYSTEM) interface for Database: s030721. The browser window title is "Oracle Enterprise Manager (SYSTEM) - Database: s030721 - Microsoft Internet Explorer". The address bar shows the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle\\_database&pageNum=3](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle_database&pageNum=3). The page is titled "Oracle Enterprise Manager" and shows the user is logged in as SYSTEM. The "Administration" tab is selected, and the "Scheduler" link is highlighted under the Scheduler section.

Database: s030721

Home Performance Administration Maintenance

**Instance**  
[Memory Parameters](#)  
[Undo Management](#)  
[All Initialization Parameters](#)

**Storage**  
[Controlfiles](#)  
[Tablespaces](#)  
[Datafiles](#)  
[Rollback Segments](#)  
[Redo Log Groups](#)  
[Archive Logs](#)  
[Temporary Tablespace Groups](#)

**Security**  
[Users](#)  
[Roles](#)  
[Profiles](#)

**Resource Manager**  
[Resource Monitors](#)  
[Resource Consumer Group Mappings](#)  
[Resource Consumer Groups](#)  
[Resource Plans](#)

**Scheduler**  
[Jobs](#)  
[Schedules](#)  
[Programs](#)  
[Job Classes](#)  
[Windows](#)  
[Window Groups](#)

**Schema**  
[Tables](#)  
[Indexes](#)  
[Views](#)  
[Synonyms](#)  
[Sequences](#)  
[Database Links](#)

**Source Types**  
[Packages](#)  
[Package Bodies](#)  
[Procedures](#)  
[Functions](#)  
[Triggers](#)  
[Java Sources](#)  
[Java Classes](#)

**User Types**  
[Array Types](#)  
[Object Types](#)  
[Table Types](#)

**Warehouse**  
**OLAP**  
[Cubes](#)  
[OLAP Dimensions](#)  
[Measure Folders](#)

**Summary Management**  
[Materialized Views](#)  
[Materialized View Logs](#)  
[Refresh Groups](#)

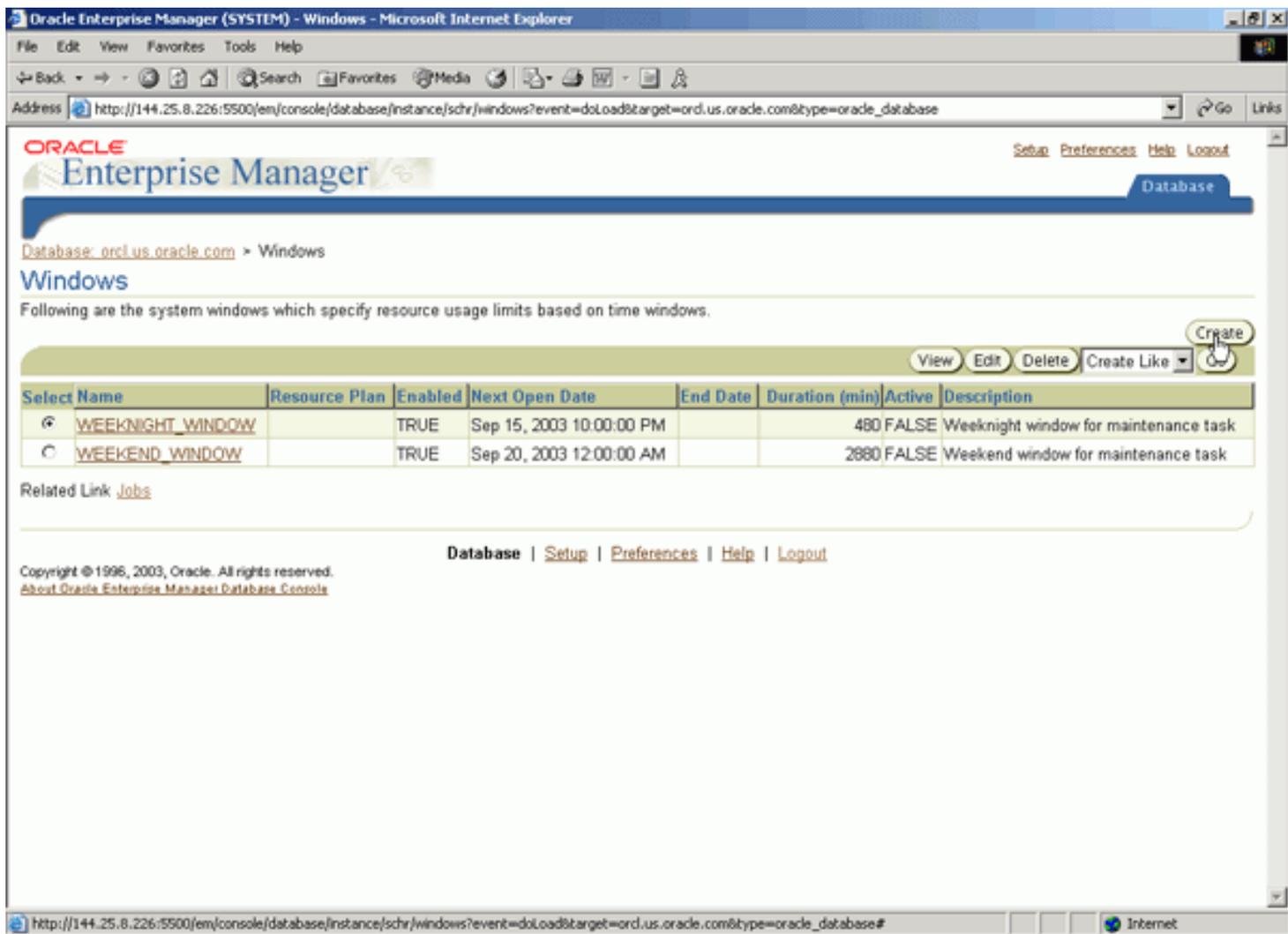
**Configuration Management**  
[Last Collected Configuration](#)  
[Database Usage Statistics](#)

**Workload**  
[Workload Repository](#)  
[SQL Tuning Sets](#)

Home Performance Administration Maintenance

[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sch/windows?event=doLoad&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sch/windows?event=doLoad&target=s030721&type=oracle_database) Internet

2. Click **Create**.



Oracle Enterprise Manager (SYSTEM) - Windows - Microsoft Internet Explorer

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/windows?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/windows?event=doLoad&target=orcl.us.oracle.com&type=oracle_database)

ORACLE Enterprise Manager Database

Database: [orcl.us.oracle.com](#) > Windows

### Windows

Following are the system windows which specify resource usage limits based on time windows.

View Edit Delete Create Like Create

Select	Name	Resource Plan	Enabled	Next Open Date	End Date	Duration (min)	Active	Description
<input checked="" type="radio"/>	<a href="#">WEEKNIGHT_WINDOW</a>		TRUE	Sep 15, 2003 10:00:00 PM		480	FALSE	Weeknight window for maintenance task
<input type="radio"/>	<a href="#">WEEKEND_WINDOW</a>		TRUE	Sep 20, 2003 12:00:00 AM		2880	FALSE	Weekend window for maintenance task

Related Link [Jobs](#)

Database | [Setup](#) | [Preferences](#) | [Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

[http://144.25.8.226:5500/em/console/database/instance/schr/windows?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database#](http://144.25.8.226:5500/em/console/database/instance/schr/windows?event=doLoad&target=orcl.us.oracle.com&type=oracle_database#) Internet

3. Enter the name **compute\_window001** and click **Create Resource Plan** .

Oracle Enterprise Manager (SYSTEM) - Create Window - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=create&oname=null&cancelURL=/em/console/database/instance/schr/windows%3Fev

ORACLE Enterprise Manager Database

Database: s030721 > Windows > Create Window

### Create Window

Show SQL Cancel OK

#### General

Name: compute\_window001

Resource Plan: INTERNAL\_PLAN [View Resource Plan](#) [Create Resource Plan](#)

Priority:  Low  High

Description:

#### Schedule

Use a calendar  
 Use an existing schedule

#### Start

Immediately  
 Later

Date: Aug-01-2003 (example: Dec-12-2002)

Time: 10:25:00  AM  PM

#### Duration

Duration: 1 Hours 0 Minutes

#### Repeat

Repeat Until:  Indefinite

4. Enter the Plan **compute\_plan001** and click **Modify** .

Oracle Enterprise Manager - Create Resource Plan - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/rsrpln?event=create&cancelURL=/em/console/database/instance/sch/window%3Fevent%3Dreload%26...

Database: s030721 > Resource Plans > Create Resource Plan

### Create Resource Plan

General | Parallelism | Session Pool | Undo Pool | Execution Time | Group Switching | Idle Time

Plan:

Description:

Activate this plan:

#### Selected Groups/Subplans

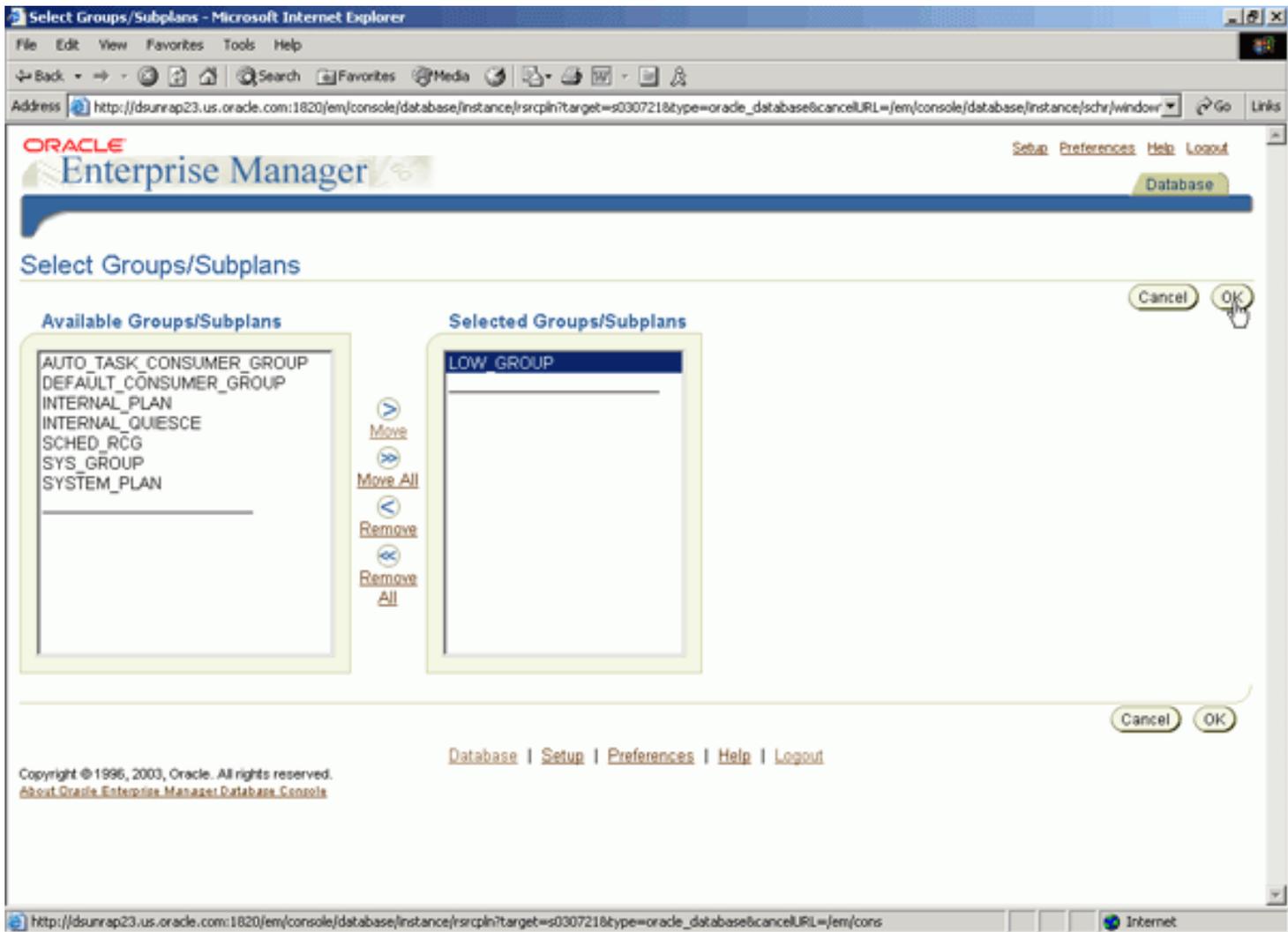
Group/Subplan	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
OTHER_GROUPS	0	0	0	0	0	0	0	0

General | Parallelism | Session Pool | Undo Pool | Execution Time | Group Switching | Idle Time

Database | Setup | Preferences | Help | Logout

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[About Oracle Enterprise Manager Database Controls](#)

5. Select **LOW\_GROUP** and click **Move** . Then click **OK** .



6. Enter **90** for the LOW\_GROUP Level 1 plan and **10** for the OTHER\_GROUPS Level 1 plan. Then click **OK**.

Oracle Enterprise Manager - Create Resource Plan - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/rsrcln?target=s030721&type=oracle\_database&cancelURL=/em/console/database/instance/schr/window

Database: s030721 > Resource Plans > Create Resource Plan

### Create Resource Plan

General | Parallelism | Session Pool | Undo Pool | Execution Time | Group Switching | Idle Time

Plan: COMPUTE\_PLAN001

Description:

Activate this plan:

#### Selected Groups/Subplans

Group/Subplan	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
LOW_GROUP	90	0	0	0	0	0	0	0
OTHER_GROUPS	10	0	0	0	0	0	0	0

General | Parallelism | Session Pool | Undo Pool | Execution Time | Group Switching | Idle Time

Database | Setup | Preferences | Help | Logout

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About Oracle Enterprise Manager Database Console

7. Enter the following information and click **OK**.

Resource Plan: **COMPUTE\_PLAN001**

Priority: **High**

Description: **For the duration of this window the COMPUTE\_PLAN001 will be active**

Schedule: **Use a Calendar**

Start: **Later**

Date: **Today's date**

Time: **6:00PM**

Duration: **4 hours**

Frequency: **7 Day s**

Repeat Until: **Custom**

Date: **One year from today's date**

Time **11:00PM**

Oracle Enterprise Manager (SYSTEM) - Create Window - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=reload&target=s330721&type=oracle\\_database&name=null&createOK=true](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=reload&target=s330721&type=oracle_database&name=null&createOK=true) Go Links

### Create Window

Show SQL Cancel OK

#### General

Name

Resource Plan

Priority  Low  High

Description

#### Schedule

Use a calendar  
 Use an existing schedule

##### Start

Immediately  
 Later

Date    
(example: Dec-12-2002)

Time     AM  PM

##### Duration

Duration  Hours  Minutes

##### Repeat

Frequency

##### Repeat Until

Indefinite  
 Custom

Date    
(example: Dec-12-2002)

Time     AM  PM  
(Ignored except when repeating by minutes or hours.)

[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=reload&target=s330721&type=oracle\\_database&name=null&createOK=true](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=reload&target=s330721&type=oracle_database&name=null&createOK=true) Internet

- Now you are ready to create a job that uses the window and job class you just created. Click your **Database** breadcrumb.

Oracle Enterprise Manager (SYSTEM) - Windows - Microsoft Internet Explorer

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle\\_database&createOK=true](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle_database&createOK=true)

ORACLE Enterprise Manager Database

Database: s030721 > Windows

Windows

Following are the system windows which specify resource usage limits based on time windows.

Buttons: Create, View, Edit, Delete, Create Like, Go

Select	Name	Resource Plan	Enabled	Next Open Date	End Date	Duration (min)	Active	Description
<input checked="" type="radio"/>	ADMIN_WINDOW	ADMIN_PLAN	TRUE	Aug 1, 2003 9:08:27 AM		240	FALSE	
<input type="radio"/>	COMPUTE_WINDOW001	COMPUTE_PLAN001	TRUE	Aug 1, 2003 6:00:00 PM	Aug 1, 2004 11:00:00 PM	240	FALSE	For the duration of this window the COMPUTE_PLAN001 will be active.
<input type="radio"/>	WEEKNIGHT_WINDOW		TRUE	Aug 1, 2003 10:00:00 PM		480	FALSE	Weeknight window for maintenance task

Related Link: [Jobs](#)

Database | [Setup](#) | [Preferences](#) | [Help](#) | [Logout](#)

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Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle_database)

## Creating a Job that Belongs to a Job Class

[Back to Topic List](#)

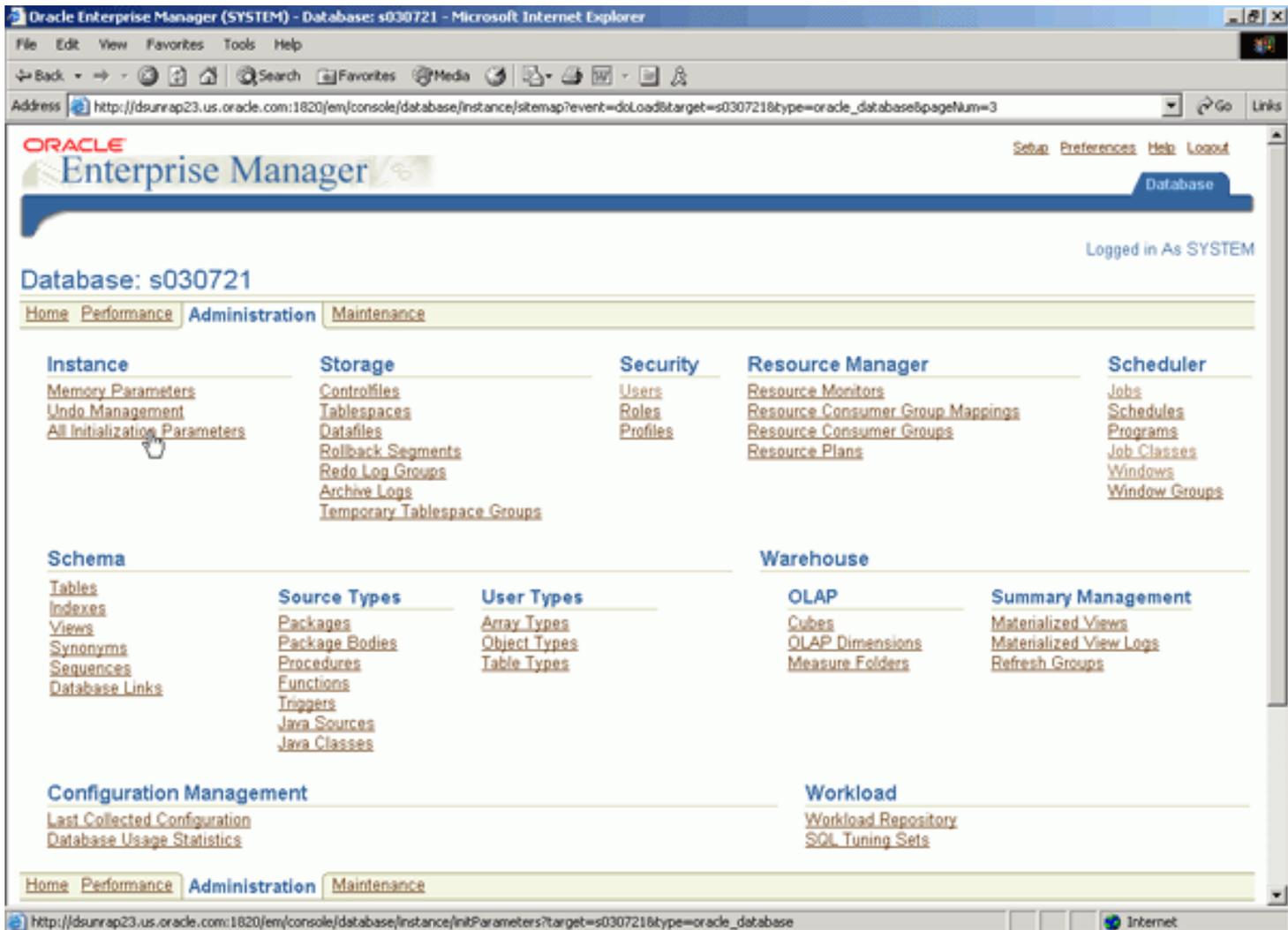
You will now create 2 jobs in different job classes and will show how the CPU is allocated between the two jobs. You will perform the following tasks:

- [Set Resource Limit Initialization Parameter](#)
- [Create a Job that Belongs to the Job Class you Created Previously](#)
- [Create a Job that Belongs to the Default Job Class](#)
- [Enable the First Job](#)
- [Review the CPU Allocation](#)

## Set Resource Limit Initialization Parameter

If this parameter is not set then the database will not be tracking statistics. Perform the following:

1. Click **Administration** tab then click **All Initialization Parameters** .



The screenshot shows the Oracle Enterprise Manager (EM) console interface. The browser title is "Oracle Enterprise Manager (SYSTEM) - Database: s030721 - Microsoft Internet Explorer". The address bar shows the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle\\_database&pageNum=3](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle_database&pageNum=3). The page header includes "ORACLE Enterprise Manager" and "Database" tabs. The user is logged in as "SYSTEM". The main navigation bar shows "Home", "Performance", "Administration" (selected), and "Maintenance". The "Administration" section is expanded, showing various categories: Instance, Storage, Security, Resource Manager, Scheduler, Schema, Source Types, User Types, Warehouse, OLAP, Summary Management, Configuration Management, and Workload. Under the "Instance" category, the "All Initialization Parameters" link is highlighted with a mouse cursor. The address bar at the bottom shows the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle_database).

2. Enter **resource** in the filter field and click **Go** .

Oracle Enterprise Manager (SYSTEM) - Initialization Parameters - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle\_database

ORACLE Enterprise Manager Database

Database: s030721 > Initialization Parameters Logged in As SYSTEM

⚠ You are not logged on with SYSDBA privilege. Only controls for dynamic parameters are editable.

### Initialization Parameters

The parameter values listed here are currently used by the running instance(s).

Filter:

Filter on a name or partial name

Previous 1-25 of 256 Next 25

Name	Help	Revisions	Value	Type	Basic	Default	Dynamic	Category
cluster_database	?		FALSE	Boolean	✓	✓		Cluster Database
compatible	?		10.1.0.1	String	✓			Miscellaneous
control_files	?		/ade/hakali_030721/oracle/dbs/t_cf1.f	String	✓			File Configuration
db_block_size	?		8192	Integer	✓			Cache and I/O
db_create_file_dest	?			String	✓	✓	✓	File Configuration
db_domain	?			String	✓			Database Identification
db_name	?		s030721	String	✓			Database Identification
db_recovery_file_dest	?			String	✓	✓	✓	Miscellaneous
db_recovery_file_dest_size	?		0	Big Integer	✓	✓	✓	Miscellaneous
instance_number	?		0	Integer	✓	✓		Cluster Database
job_queue_processes	?		10	Integer	✓		✓	Job Queues
nls_language	?		AMERICAN	String	✓	✓		NLS
nls_territory	?		AMERICA	String	✓	✓		NLS

http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle\_database# Internet

3. Select **TRUE** for Resource\_Limit and click **Apply** .

Oracle Enterprise Manager (SYSTEM) - Initialization Parameters - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle\_database

ORACLE  
Enterprise Manager  
Database

Database: s030721 > Initialization Parameters  
Logged in As SYSTEM

You are not logged on with SYSDBA privilege. Only controls for dynamic parameters are editable.

### Initialization Parameters

Show SQL Revert Apply

The parameter values listed here are currently used by the running instance(s).

Filter resource Go  
Filter on a name or partial name Save to File

Name	Help	Revisions	Value	Type	Basic	Default	Dynamic	Category
enqueue_resources	?		968	Integer		✓		Transactions
resource_limit	?		TRUE	Boolean		✓	✓	Resource Manager
resource_manager_plan	?		SYSTEM_PLAN	String			✓	Resource Manager

Save to File

Show SQL Revert Apply

Database | Setup | Preferences | Help | Logout

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http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle\_database# Internet

- The change has been made. Click your **Database** breadcrumb.

Oracle Enterprise Manager (SYSTEM) - Initialization Parameters - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle\_database

ORACLE Enterprise Manager Database

Database: s030721 > Initialization Parameters Logged in As SYSTEM

**Update Message**  
The changes have been made successfully

⚠ You are not logged on with SYSDBA privilege. Only controls for dynamic parameters are editable.

### Initialization Parameters

Show SQL Revert Apply

The parameter values listed here are currently used by the running instance(s).

Filter: resource Go Save to File

Filter on a name or partial name

Name	Help	Revisions	Value	Type	Basic	Default	Dynamic	Category
enqueue_resources	?		968	Integer		✓		Transactions
resource_limit	?		TRUE	Boolean		✓	✓	Resource Manager
resource_manager_plan	?		SYSTEM_PLAN	String			✓	Resource Manager

Save to File

Show SQL Revert Apply

Database | Setup | Preferences | Help | Logout

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About Oracle Enterprise Manager Database Controls

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&target=s030721&type=oracle\_database&pageN

Create a Job that Belongs to the Job Class you Created Previously

[Back to List](#)

Perform the following:

1. Click **Jobs** then click **Create** .

The screenshot shows the Oracle Enterprise Manager interface in a Microsoft Internet Explorer browser. The address bar displays the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle_database). The page title is "Oracle Enterprise Manager" and the breadcrumb is "Database: s030721 > Jobs".

At the top right, there are links for "Setup", "Preferences", "Help", and "Logout". Below the breadcrumb, there are "Create" and "Refresh" buttons. The page indicates it was refreshed on "Aug 1, 2003 11:13:19 AM".

The main content area has tabs for "Scheduled", "Running", "Disabled", and "Run History". Below these tabs, there are buttons for "Edit", "View", "Delete", "Run Now", and "Create Like".

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
<input type="checkbox"/>	ALTER_INDX001	HR	Aug 1, 2003 11:00:00 PM - 07:00	Jul 31, 2003 11:00:04 PM - 07:00	DEFAULT_JOB_CLASS	4

At the bottom of the page, there is a "Create" button and a footer with copyright information: "Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager Database Controls". The browser status bar shows "Internet".

2. Enter the following information and click the **search light** next to **Job Class** .

Name: **cpu\_job001**

Owner: **SYSTEM**

Enabled: **No**

Description: **This job is a cpu intensive job**

Logging Level: **Log job runs only (RUNS)**

Oracle Enterprise Manager (SYSTEM) - Create Job - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?fromPage=scheduled&event=do\_create&target=s030721&type=oracle\_database

ORACLE Enterprise Manager Database

Database: s030721 > Jobs > Create Job

### Create Job

Show SQL Cancel OK

**General** Schedule Options

- Name:
- Owner:
- Enabled:  Yes  No
- Description:
- Logging Level:   
Set how much logging pertaining to this job should be done
- Job Class:  [Create Job Class](#)
- Auto Drop:   
Whether the job should remain after having completed
- Restartable:   
Whether the job can be safely restarted (and should be restarted in case of failure)

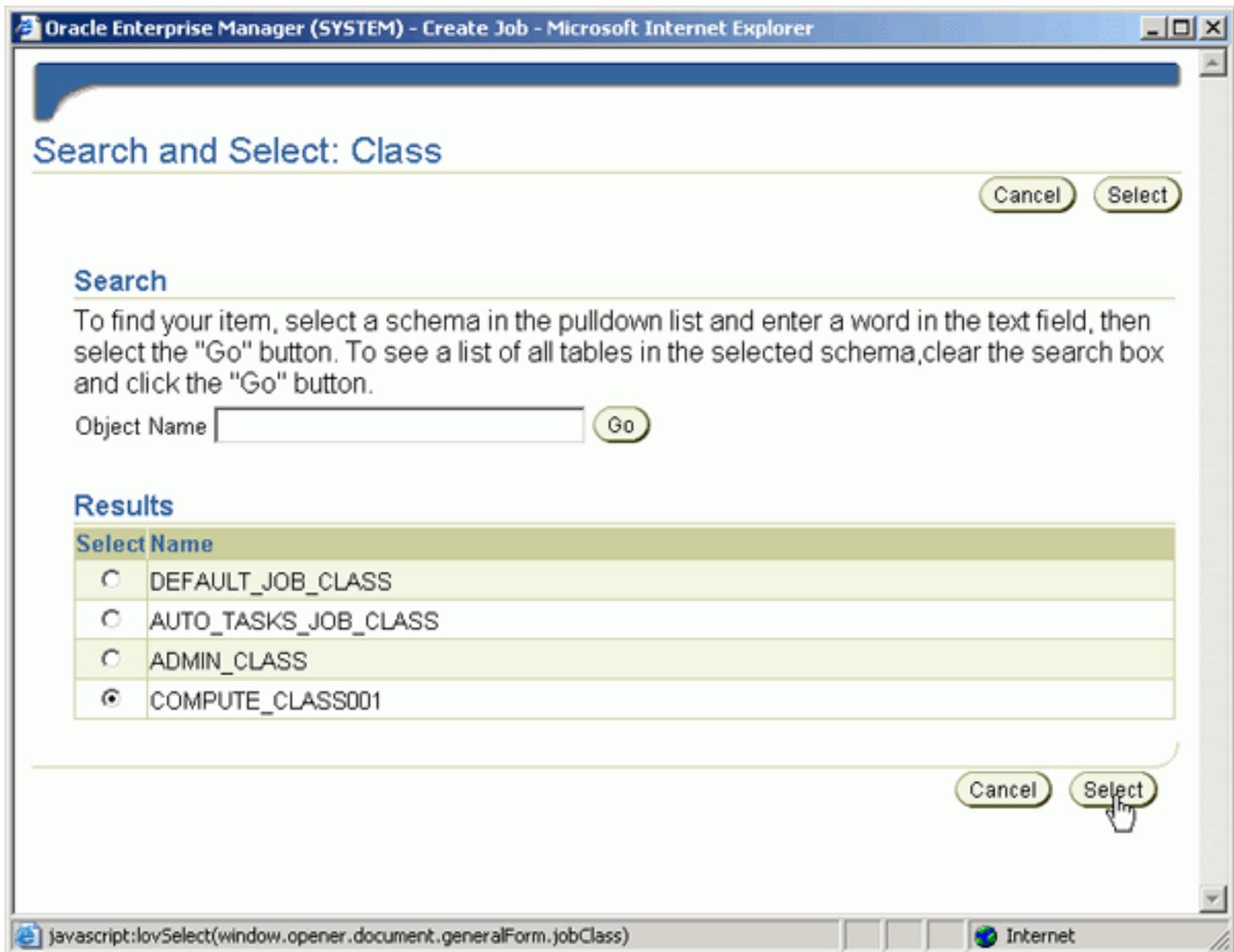
**Command**

Select the command type for this job, and specify the required information for that command type.

Command Type: **PL/SQL Block** [Change Command Type](#)

```
begin
-- Insert PL/SQL code here
end;
```

3. Select the **COMPUTE\_CLASS001** Job Class and click **Select** .



4. Enter the following in the Command Type area and select the **Schedule** tab.

```
declare
  i number;
  f number;
begin
  for i in 1..30000000 loop
    f := f * i;
  end loop;
end;
```

Oracle Enterprise Manager (SYSTEM) - Create Job - Microsoft Internet Explorer

Database: s030721 > Jobs > Create Job

## Create Job

Show SQL Cancel OK

**General** Schedule Options

- Name:
- Owner:
- Enabled:  Yes  No
- Description:
- Logging Level:   
Set how much logging pertaining to this job should be done
- Job Class:  [Create Job Class](#)
- Auto Drop:   
Whether the job should remain after having completed
- Restartable:   
Whether the job can be safely restarted (and should be restarted in case of failure)

### Command

Select the command type for this job, and specify the required information for that command type.

Command Type: **PL/SQL Block** [Change Command Type](#)

```
PL/SQL
declare
i number;
f number;
begin
  for i in 1..30000000 loop
    f:=f*i;
  end loop;
end;
```

5. Make sure the Start is set to **Immediately** and click **OK** .

Oracle Enterprise Manager (SYSTEM) - Create Job - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?target=s030721&type=oracle\_database

ORACLE Enterprise Manager Database

Database: s030721 > Jobs > Create Job

### Create Job

Show SQL Cancel OK

General Schedule Options

Schedule Type: Standard

Time Zone: GMT -7:00

**Start**

Immediately  
 Later

Date: Aug-03-2003  
(example: Dec-12-2002)

Time: 6:50:00 AM

**Repeat**

One Time Only  
 Interval

Frequency: 1 Days

**Repeat Until**

Indefinite  
 Custom

Date: Aug-03-2003  
(example: Dec-12-2002)

Time: 7:00:00 AM  
(Ignored except when repeating by minutes or hours.)

General Schedule Options

http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?target=s030721&type=oracle\_database# Internet

- Your job has been created. Click the **Disabled** tab.

The screenshot shows the Oracle Enterprise Manager interface in a Microsoft Internet Explorer browser. The page title is "Oracle Enterprise Manager (SYSTEM) - Jobs". The address bar shows the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?name=SYSTEM&pageName=scheduled&event=create\\_ok&name=CPU\\_JOB001&target=s030721](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?name=SYSTEM&pageName=scheduled&event=create_ok&name=CPU_JOB001&target=s030721). The page displays a confirmation message: "Job SYSTEM.CPU\_JOB001 has been created successfully". Below the message, there are tabs for "Scheduled", "Running", "Disabled", and "Run History". A table of scheduled jobs is visible, with one job listed: "ALTER\_IND:001" owned by "HR", scheduled for "Aug 1, 2003 11:00:00 PM - 07:00", with a "Last Run Date" of "Jul 31, 2003 11:00:04 PM - 07:00", and a "Job Class" of "DEFAULT\_JOB\_CLASS". The table also shows "Previous Runs" as 4. The page footer includes copyright information and navigation links: "Database | Setup | Preferences | Help | Logout".

Oracle Enterprise Manager

Database: s030721 > Jobs

Jobs

Confirmation

Job SYSTEM.CPU\_JOB001 has been created successfully

Page Refreshed Aug 1, 2003 11:38:59 AM Refresh

Scheduled Running Disabled Run History

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
<input type="checkbox"/>	ALTER_IND:001	HR	Aug 1, 2003 11:00:00 PM - 07:00	Jul 31, 2003 11:00:04 PM - 07:00	DEFAULT_JOB_CLASS	4

Scheduled Running Disabled Run History

Database | Setup | Preferences | Help | Logout

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[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pageName=unscheduled&target=s030721&type=oracle\\_data](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pageName=unscheduled&target=s030721&type=oracle_data)

Create a Job that Belongs to the Default Job Class

[Back to List](#)

Since this job is very similar to the last, you will use the Create Like feature. Perform the following:

1. Select the radio button in front of the job CPU\_JOB001 you just created and click **Create Like** .

Oracle Enterprise Manager (SYSTEM) - Jobs - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pageName=unscheduled&target=s030721&type=oracle\_database

Database: s030721 > Jobs

Jobs

Page Refreshed Aug 1, 2003 11:38:59 AM

Scheduled Running Disabled Run History

A disabled job is the job which remains after execution or gets disabled.

Select	Name	Owner	Last Run Status	Last Run Date	Job Class	Previous Runs
<input type="radio"/>	JGGGHIGH	HR	SUCCESS	Jul 29, 2003 10:00:52 AM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	COALESCE_INDEX	SYSTEM	DISABLED	n/a	DEFAULT_JOB_CLASS	0
<input type="radio"/>	COALESCE_INDEX	HR	SUCCESS	Jul 27, 2003 3:00:14 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	ALTER_IND_X_PROC	HR	SUCCESS	Jul 25, 2003 2:10:28 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	WRWE	HR	SUCCESS	Jul 25, 2003 1:45:37 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	JR1	SYSMAN	SUCCESS	Jul 25, 2003 10:07:18 AM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	JOB1	SYSMAN	FAILED	Jul 24, 2003 7:30:39 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	CLEAR_AUDIT_TABLE	SYSTEM	DISABLED	n/a	ADMIN_CLASS	0
<input type="radio"/>	CLEAR_AUDIT_TABLE	SYSMAN	FAILED	Jul 27, 2003 2:59:19 PM -07:00	ADMIN_CLASS	1
<input checked="" type="radio"/>	CPU_JOB001	SYSTEM	DISABLED	n/a	COMPUTE_CLASS001	0

Scheduled Running Disabled Run History

2. Change the following and click the **search light** next to **Job Class** .

Name: **cpu\_job002**

Enabled: **Yes**

Oracle Enterprise Manager (SYSTEM) - Create Job - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&event=create\_job&name=CPU\_JOB001&target=s030721&type=oracle\_datab...

Database: s030721 > Jobs > Create Job

### Create Job

Buttons: Show SQL, Cancel, OK

Tabs: General, Schedule, Options

**General**

- Name:
- Owner:
- Enabled:  Yes  No
- Description:
- Logging Level: 
Set how much logging pertaining to this job should be done
- Job Class:  [Create Job Class](#)
- Auto Drop: 
Whether the job should remain after having completed
- Restartable: 
Whether the job can be safely restarted (and should be restarted in case of failure)

**Command**

Select the command type for this job, and specify the required information for that command type.

Command Type: **PL/SQL Block** [Change Command Type](#)

```
declare
i number;
f number;
begin
```

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&event=create\_job&name=CPU\_JOB001&target=...

3. Select the **DEFAULT\_JOB\_CLASS** Job Class and click **Select**.

Oracle Enterprise Manager (SYSTEM) - Create Job - Microsoft Internet Explorer

## Search and Select: Class

Cancel Select

### Search

To find your item, select a schema in the pulldown list and enter a word in the text field, then select the "Go" button. To see a list of all tables in the selected schema, clear the search box and click the "Go" button.

Object Name  Go

### Results

Select	Name
<input checked="" type="radio"/>	DEFAULT_JOB_CLASS
<input type="radio"/>	AUTO_TASKS_JOB_CLASS
<input type="radio"/>	ADMIN_CLASS
<input type="radio"/>	COMPUTE_CLASS001

Cancel Select

javascript:lovSelect(window.opener.document.generalForm.jobClass) Internet

4. Click **OK**.

Oracle Enterprise Manager (SYSTEM) - Create Job - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&event=create\_job&name=CPU\_JOB001&target=s030721&type=oracle\_datab...

ORACLE Enterprise Manager Database

Database: s030721 > Jobs > Create Job

## Create Job

Show SQL Cancel OK

**General** Schedule Options

Name

Owner

Enabled  Yes  No

Description

Logging Level  Set how much logging pertaining to this job should be done

Job Class

Auto Drop  Whether the job should remain after having completed

Restartable  Whether the job can be safely restarted (and should be restarted in case of failure)

**Command**

Select the command type for this job, and specify the required information for that command type.

Command Type **PL/SQL Block**

```
declare
i number;
f number;
begin
```

http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&event=create\_job&name=CPU\_JOB001&target Internet

## Enable the First Job

[Back to List](#)

Now you want to enable the first job. Perform the following:

1. Select the job **CPU\_JOB001** .

The screenshot shows the Oracle Enterprise Manager interface. At the top, there is a confirmation message: "Confirmation Job SYSTEM.CPU\_JOB002 has been created successfully". Below this, there are tabs for "Scheduled", "Running", "Disabled", and "Run History". A note states: "A disabled job is the job which remains after execution or gets disabled." Below the note is a table of jobs with columns: Select, Name, Owner, Last Run Status, Last Run Date, Job Class, and Previous Runs. The job "CPU\_JOB001" is selected and highlighted.

Select	Name	Owner	Last Run Status	Last Run Date	Job Class	Previous Runs
<input type="radio"/>	JGGGHJGH	HR	SUCCESS	Jul 29, 2003 10:00:52 AM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	COALESCE_INDEX	SYSTEM	DISABLED	n/a	DEFAULT_JOB_CLASS	0
<input type="radio"/>	COALESCE_INDEX	HR	SUCCESS	Jul 27, 2003 3:00:14 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	ALTER_IND_X_PROC	HR	SUCCESS	Jul 25, 2003 2:10:28 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	WRWE	HR	SUCCESS	Jul 25, 2003 1:45:37 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	JR1	SYSMAN	SUCCESS	Jul 25, 2003 10:07:18 AM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	JOB1	SYSMAN	FAILED	Jul 24, 2003 7:30:39 PM -07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	CLEAR_AUDIT_TABLE	SYSTEM	DISABLED	n/a	ADMIN_CLASS	0
<input type="radio"/>	CLEAR_AUDIT_TABLE	SYSMAN	FAILED	Jul 27, 2003 2:59:19 PM -07:00	ADMIN_CLASS	1
<input checked="" type="radio"/>	CPU_JOB001	SYSTEM	DISABLED	n/a	COMPUTE_CLASS001	0

2. Change Enabled to **Yes** and click **Apply** .

The screenshot displays the Oracle Enterprise Manager interface for editing a job. The browser address bar shows the URL: `http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&oname=CPU_JOB001&event=edit&state=edit&target=s030721&type=oracle_d`. The page title is "Oracle Enterprise Manager (SYSTEM) - Edit Job: SYSTEM.CPU\_JOB001". The breadcrumb navigation is "Database: s030721 > Jobs > Edit Job: SYSTEM.CPU\_JOB001". The main heading is "Edit Job: SYSTEM.CPU\_JOB001". There are buttons for "Show SQL", "Revert", and "Apply". The "General" tab is selected, showing the following configuration:

- Name: CPU\_JOB001
- Owner: SYSTEM
- Enabled:  Yes  No
- Description: This job is a cpu intensive job
- Logging Level: Log job runs only (RUNS)
- Job Class: COMPUTE\_CLASS001 (with a "Create Job Class" button)
- Auto Drop: FALSE
- Restartable: TRUE

The "Command" section is also visible, showing the command type "PL/SQL Block" and a code editor with the following SQL code:

```
declare
i number;
f number;
begin
  for i in 1..30000000 loop
```

3. Select the **Jobs** breadcrumb.

Oracle Enterprise Manager (SYSTEM) - Edit Job: SYSTEM.CPU\_JOB001 - Microsoft Internet Explorer

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?target=s030721&type=oracle_database)

ORACLE Enterprise Manager Database

Database: s030721 > Jobs > Edit Job: SYSTEM.CPU\_JOB001

Edit Job: SYSTEM.CPU\_JOB001

Show SQL Revert Apply

**Confirmation**  
Job SYSTEM.CPU\_JOB001 has been modified successfully

**General** Schedule Options

Name **CPU\_JOB001**  
Owner **SYSTEM**  
Enabled  Yes  No

Description

Logging Level   
Set how much logging pertaining to this job should be done

Job Class  [Create Job Class](#)

Auto Drop   
Whether the job should remain after having completed

Restartable   
Whether the job can be safely restarted (and should be restarted in case of failure)

**Command**

Select the command type for this job, and specify the required information for that command type.

Command Type **PL/SQL Block** [Change Command Type](#)

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle\\_database&pageName=unsched](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle_database&pageName=unsched) Internet

## Review the CPU Allocation

[Back to List](#)

Perform the following:

1. Select the **Run History** tab. You will notice that CPU allocation between the two jobs. When done, click the **Database** breadcrumb.

Oracle Enterprise Manager (SYSTEM) - Jobs - Microsoft Internet Explorer

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle_database)

Database: [orcl.us.oracle.com](#) > Jobs

Jobs

Page Refreshed Sep 16, 2003 9:57:50 AM [Refresh](#) [Create](#)

[Scheduled](#) [Running](#) [Disabled](#) **Run History** [Purge All Logs](#) [View](#) [Purge Log](#)

Select	Name	Owner	Status	Completion Date	Run Duration (minutes)
<input checked="" type="radio"/>	CPU_JOB001	SYSTEM	SUCCESS	Sep 16, 2003 9:57:44 AM -07:00	0.18
<input type="radio"/>	CPU_JOB002	SYSTEM	SUCCESS	Sep 16, 2003 9:57:15 AM -07:00	0.18
<input type="radio"/>	ALTER_INDX_PROC001	HR	SUCCESS	Sep 15, 2003 12:50:53 PM -07:00	0.0
<input type="radio"/>	ALTER_INDX001	HR	SUCCESS	Sep 15, 2003 12:36:46 PM -07:00	0.0

[Scheduled](#) [Running](#) [Disabled](#) **Run History**

Database | [Setup](#) | [Preferences](#) | [Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

Address: [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database&pageN](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database&pageN)

## Creating a Window Group

[Back to Topic List](#)

A window group represents a list of windows. A window or window group is also a valid schedule for a job. Perform the following:

1. Then select **Window Group** from the **Administration** tab.

The screenshot shows the Oracle Enterprise Manager (EM) console interface. The browser title is "Oracle Enterprise Manager (HR) - Database: s030721 - Microsoft Internet Explorer". The address bar shows the URL: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/siteMap?event=doLoad&instanceVersion=10.1.0.1.06&target=s030721&type=oracle\\_database&pageNum=](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/siteMap?event=doLoad&instanceVersion=10.1.0.1.06&target=s030721&type=oracle_database&pageNum=)

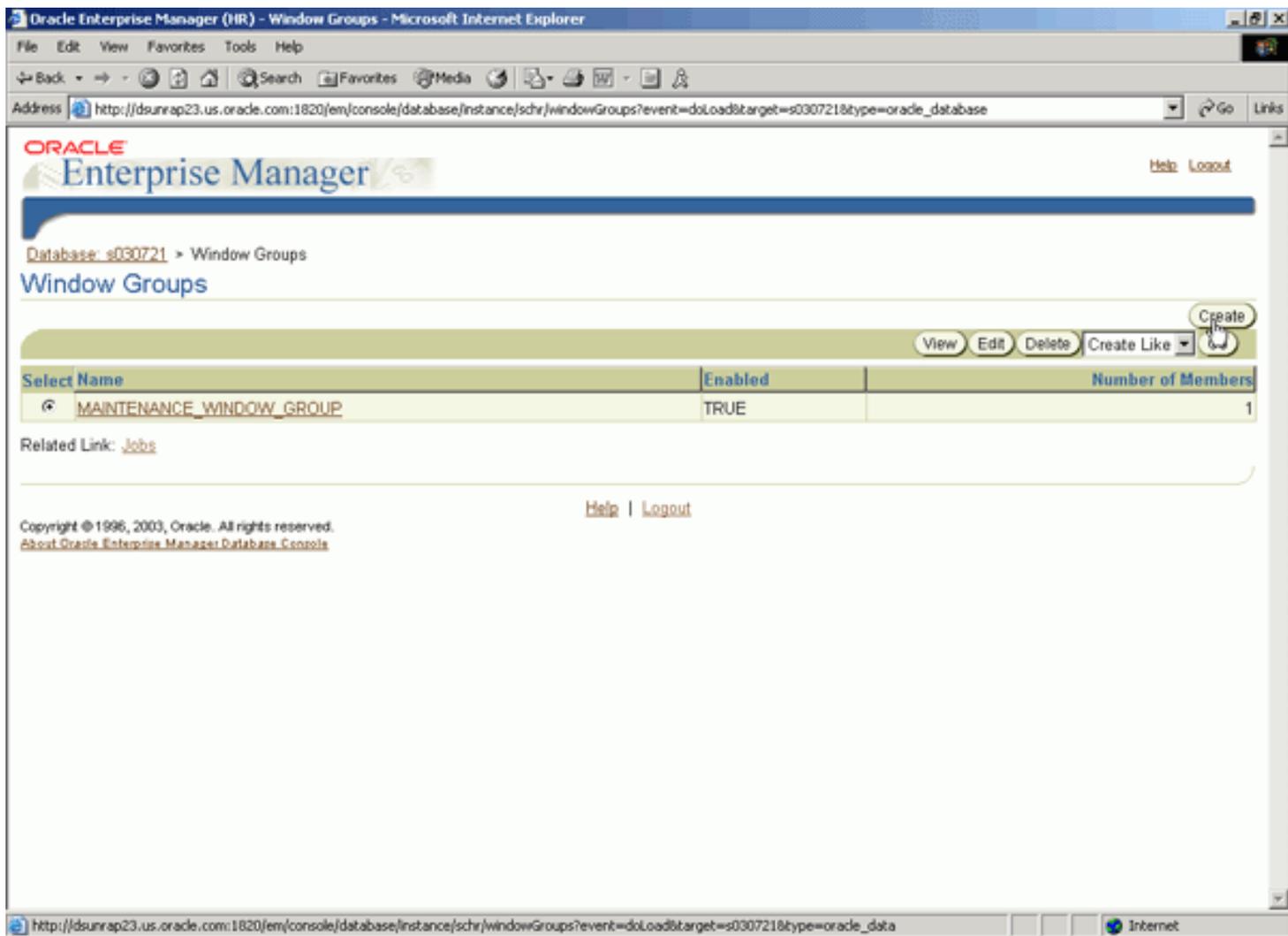
The main content area displays the "Administration" tab for the database "s030721". The "Scheduler" section is expanded, showing a list of items: [Jobs](#), [Schedules](#), [Programs](#), [Job Classes](#), [Windows](#), and [Window Groups](#). A mouse cursor is hovering over the "Window Groups" link.

Other sections visible include:

- Instance:** [Memory Parameters](#), [Undo Management](#), [All Initialization Parameters](#)
- Storage:** [Controlfiles](#), [Tablespaces](#), [Datafiles](#), [Rollback Segments](#), [Redo Log Groups](#), [Archive Logs](#), [Temporary Tablespace Groups](#)
- Security:** [Users](#), [Roles](#), [Profiles](#)
- Resource Manager:** [Resource Monitors](#), [Resource Consumer Group Mappings](#), [Resource Consumer Groups](#), [Resource Plans](#)
- Schema:** [Tables](#), [Indexes](#), [Views](#), [Synonyms](#), [Sequences](#), [Database Links](#)
- Source Types:** [Packages](#), [Package Bodies](#), [Procedures](#), [Functions](#), [Triggers](#), [Java Sources](#), [Java Classes](#)
- User Types:** [Array Types](#), [Object Types](#), [Table Types](#)
- Warehouse:** [OLAP](#) (Cubes, OLAP Dimensions, Measure Folders), [Summary Management](#) (Materialized Views, Materialized View Logs, Refresh Groups)
- Workload:** [Workload Repository](#), [SQL Tuning Sets](#)

The bottom navigation bar shows the "Administration" tab is active. The browser status bar at the bottom indicates the current URL is [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroups?event=doLoad&target=s030721&type=oracle\\_data](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroups?event=doLoad&target=s030721&type=oracle_data).

2. Click **Create**.



Oracle Enterprise Manager (EM) - Window Groups - Microsoft Internet Explorer

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroups?event=doLoad&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroups?event=doLoad&target=s030721&type=oracle_database)

ORACLE Enterprise Manager

Database: s030721 > Window Groups

### Window Groups

View Edit Delete Create Like Create

Select	Name	Enabled	Number of Members
<input type="checkbox"/>	MAINTENANCE_WINDOW_GROUP	TRUE	1

Related Link: [Jobs](#)

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[About Oracle Enterprise Manager Database Console](#)

Help | Logout

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroups?event=doLoad&target=s030721&type=oracle\\_data](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroups?event=doLoad&target=s030721&type=oracle_data)

Internet

3. Enter the name **high\_load\_window\_group001** and click **Add/Remove Windows** .

Oracle Enterprise Manager (HR) - Create Window Group - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroup?event=create&oname=null&cancelURL=/em/console/database/instance/schr/windowGr>

ORACLE  
Enterprise Manager [Help](#) [Logout](#)

Database: s030721 > Window Groups > Create Window Group

### Create Window Group

[Show SQL](#) [Cancel](#) [OK](#)

**General**

Name

**Members**

[Add/Remove Windows](#)

Name	Resource Plan	Enabled	Next Open Date	End Date	Duration (min)	Description

[Show SQL](#) [Cancel](#) [OK](#)

[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

<http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroup?event=create&oname=null&cancelURL=/em/console> Internet

4. Click the checkbox for **COMPUTE\_WINDOW001** and another window from the list and click **Select** .

Oracle Enterprise Manager (HR) - Create Window Group - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroup?pageName=%2Fdatabase%2Finstance%2Fscheduler%2FwindowGroup&event=select> Go Links

ORACLE  
Enterprise Manager Help Logout

Database: s030721 > Window Groups > Create Window Group

## Create Window Group

### Select Window

Cancel Select

**Search**  
To find your item, enter a word in the text field, then hit "Go" button. To see a list of all items, clear the text field and hit "Go" button  
Search for Window  Go

**Results**  
[Select All](#) | [Select None](#)

Select Window	
<input type="checkbox"/>	ADMIN_WINDOW
<input checked="" type="checkbox"/>	COMPUTE_WINDOW01
<input checked="" type="checkbox"/>	WEEKNIGHT_WINDOW

Cancel Select

Help | Logout

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[About Oracle Enterprise Manager Database Controls](#)

<http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroup?pageName=/database/instance/scheduler/windows> Internet

5. Click **OK**.

Oracle Enterprise Manager (HR) - Create Window Group - Microsoft Internet Explorer

Address: <http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroup?pageName=%2Fdatabase%2Finstance%2Fscheduler%2FselectWindow&searchObject>

Oracle Enterprise Manager

Database: s030721 > Window Groups > Create Window Group

### Create Window Group

Show SQL Cancel OK

**General**

Name:

**Members**

Add/Remove Windows

Name	Resource Plan	Enabled	Next Open Date	End Date	Duration (min)	Description
<a href="#">COMPUTE_WINDOW001</a>	COMPUTE_PLAN001	TRUE	Aug 1, 2003 6:00:00 PM	Aug 1, 2004 11:00:00 PM	240	For the duration of this window the COMPUTE_PLAN001 will be active.
<a href="#">WEEKNIGHT_WINDOW</a>		TRUE	Aug 4, 2003 10:00:00 PM		480	Weeknight window for maintenance task

Show SQL Cancel OK

Help | Logout

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[About Oracle Enterprise Manager Database Console](#)

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroup?pageName=\(database/instance/scheduler\)/selectW](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroup?pageName=(database/instance/scheduler)/selectW)

6. The window group was created. You will now create a job that uses this window group as its schedule. Click the Related Link **Jobs**.

Oracle Enterprise Manager (EM) - Window Groups - Microsoft Internet Explorer

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroups?event=doLoad&target=s030721&type=oracle\\_database&createOK=true](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windowGroups?event=doLoad&target=s030721&type=oracle_database&createOK=true)

ORACLE Enterprise Manager

Database: s030721 > Window Groups

Window Groups

Buttons: View, Edit, Delete, Create Like, Go, Create

Select	Name	Enabled	Number of Members
<input type="radio"/>	HIGH_LOAD_WINDOW_GROUP01	TRUE	2
<input type="radio"/>	MAINTENANCE_WINDOW_GROUP	TRUE	1

Related Link: [Jobs](#)

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[About Oracle Enterprise Manager Database Controls](#)

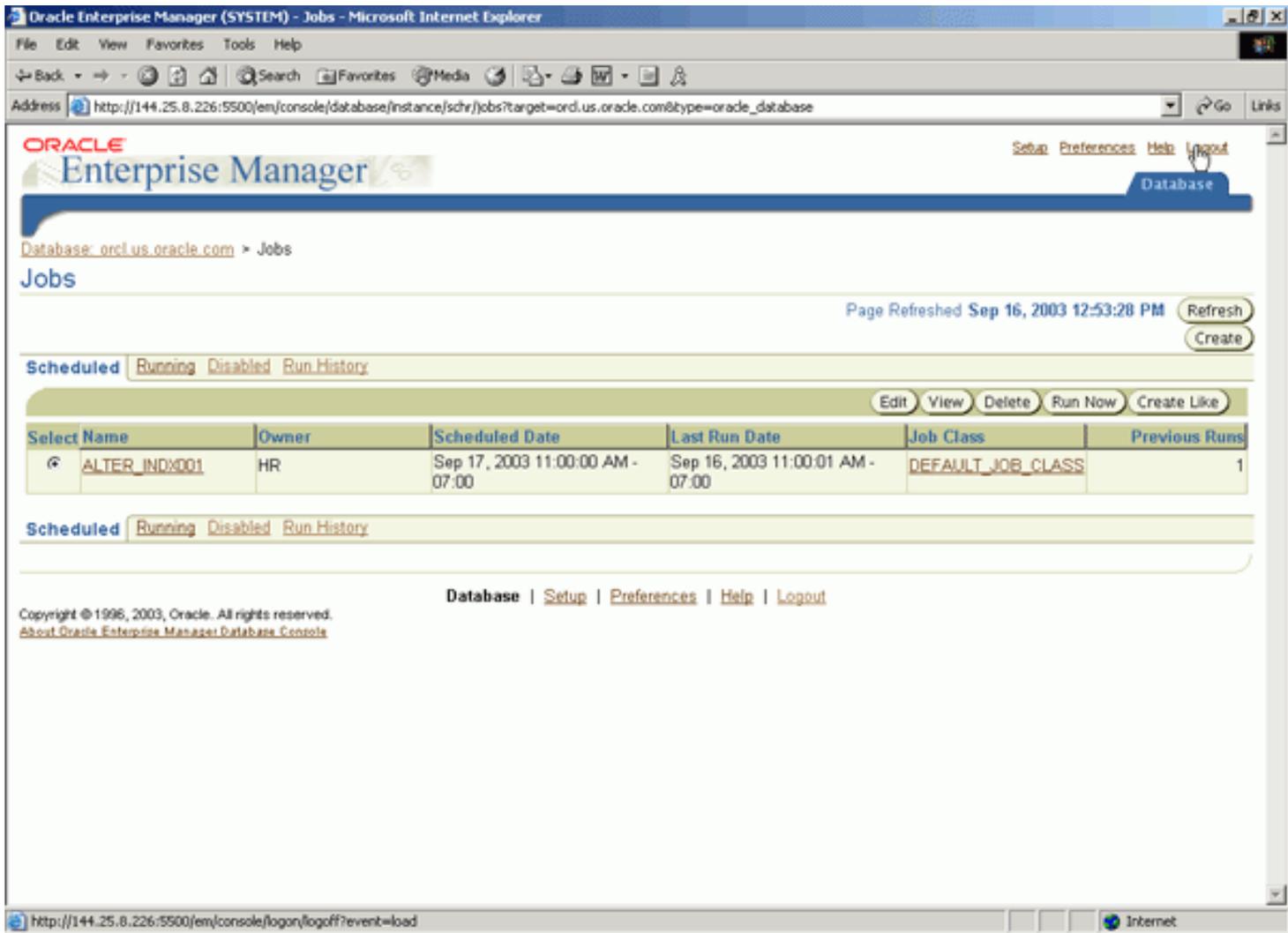
Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle_database)

## Creating a Job that Uses a Window Group as its Schedule

[Back to Topic List](#)

Now you will create a job that uses the Window Group you just created. Perform the following:

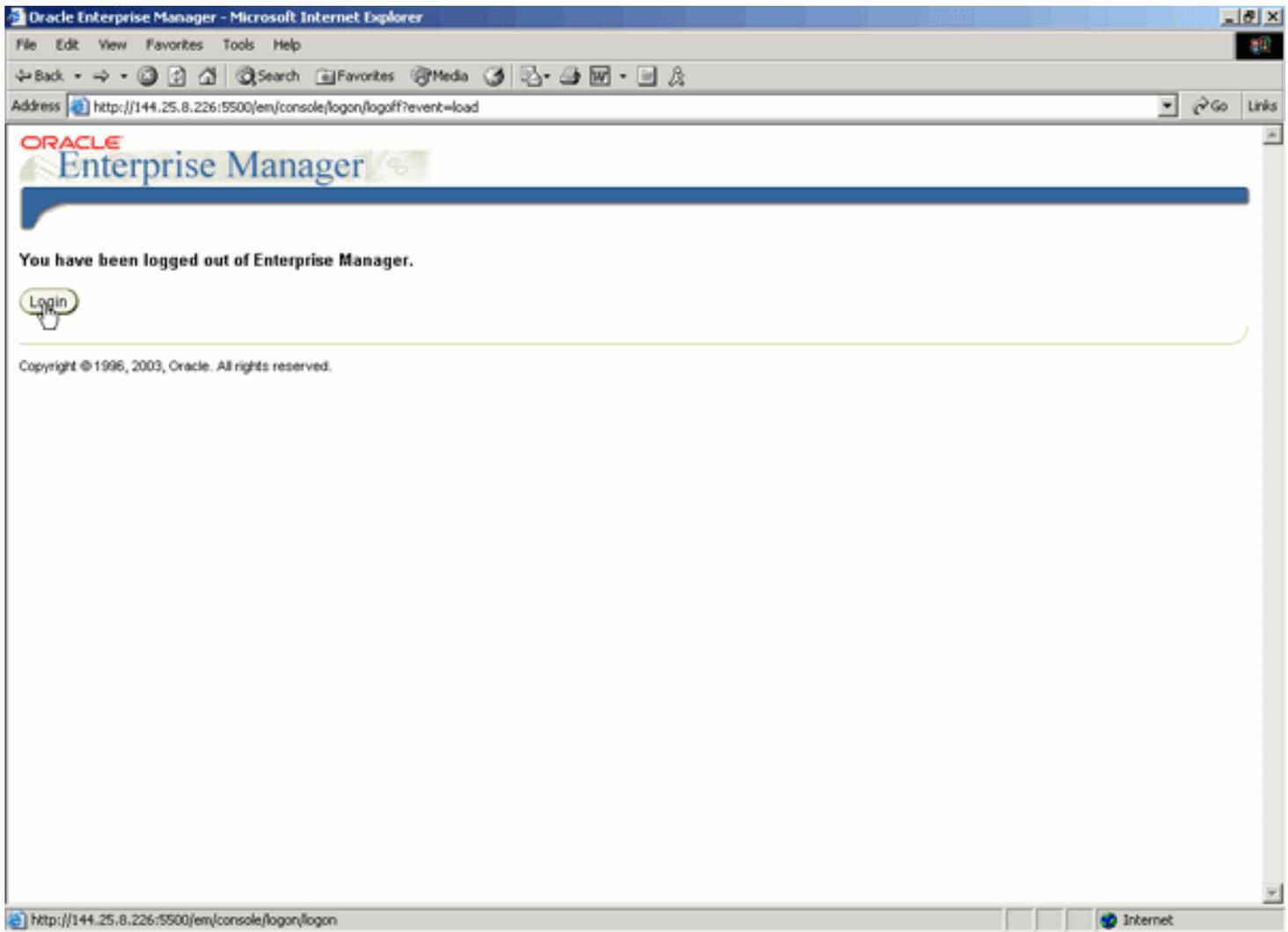
1. You will create the job as the HR user. Click **Logout** .



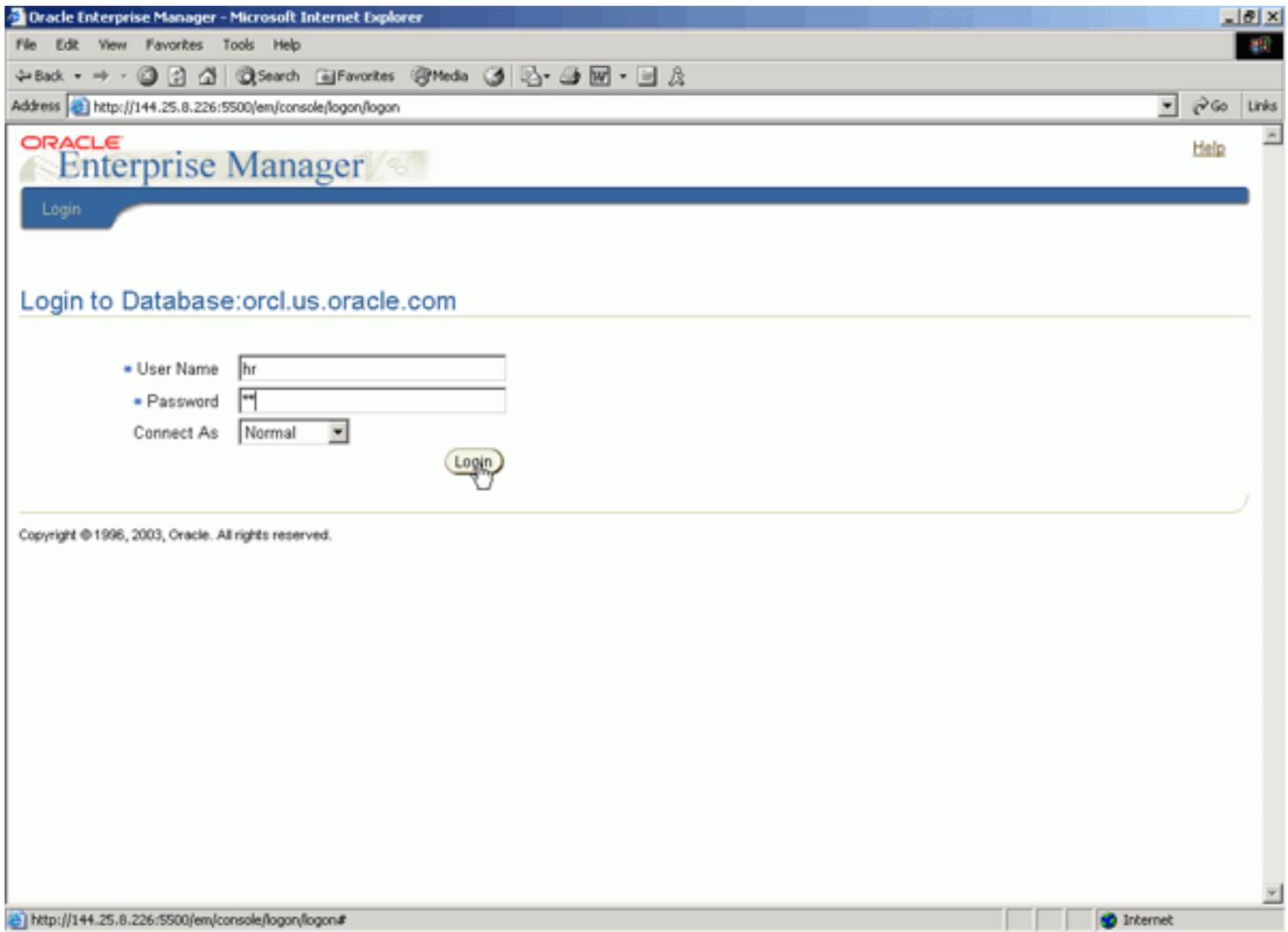
The screenshot shows the Oracle Enterprise Manager interface in a Microsoft Internet Explorer browser. The address bar displays the URL: `http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=ord.us.oracle.com&type=oracle_database`. The page title is "Oracle Enterprise Manager (SYSTEM) - Jobs". The main content area shows the "Jobs" page for the database "orcl.us.oracle.com". The page is refreshed on "Sep 16, 2003 12:53:28 PM". There are buttons for "Refresh" and "Create". The "Scheduled" tab is selected, showing a table of jobs. The table has columns: "Name", "Owner", "Scheduled Date", "Last Run Date", "Job Class", and "Previous Runs". One job is listed: "ALTER\_INDX001" owned by "HR", scheduled for "Sep 17, 2003 11:00:00 AM - 07:00", last run on "Sep 16, 2003 11:00:01 AM - 07:00", with job class "DEFAULT\_JOB\_CLASS" and 1 previous run. There are also buttons for "Edit", "View", "Delete", "Run Now", and "Create Like". The footer contains copyright information and navigation links: "Database | Setup | Preferences | Help | Logout".

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
<input type="checkbox"/>	ALTER_INDX001	HR	Sep 17, 2003 11:00:00 AM - 07:00	Sep 16, 2003 11:00:01 AM - 07:00	DEFAULT_JOB_CLASS	1

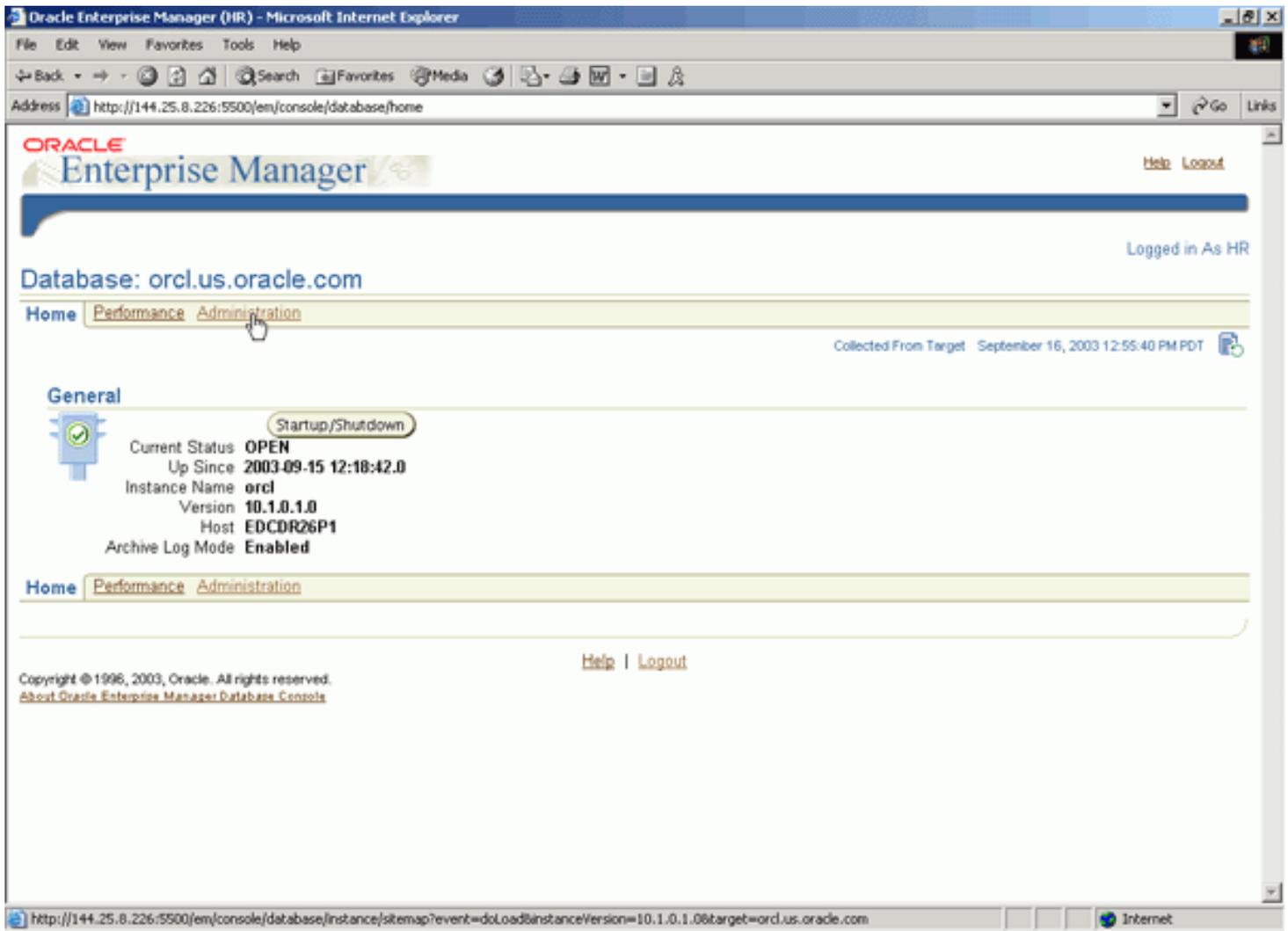
2. Click **Login** .



3. Enter **hr/hr** and click **Login** .



4. Click **Administration** .



5. Click **Jobs** .



6. Click **Create**.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=ord.us.oracle.com&type=oracle\_database

ORACLE Enterprise Manager Help Logout

Database: [ord.us.oracle.com](#) > Jobs

Jobs

Page Refreshed Sep 16, 2003 12:56:45 PM Refresh Create

Scheduled Running Disabled Run History

Edit View Delete Run Now Create Like

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
<input type="checkbox"/>	<a href="#">ALTER_IND001</a>	HR	Sep 17, 2003 11:00:00 AM - 07:00	Sep 16, 2003 11:00:01 AM - 07:00	<a href="#">DEFAULT_JOB_CLASS</a>	1

Scheduled Running Disabled Run History

Help | Logout

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[About Oracle Enterprise Manager Database Controls](#)

http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=ord.us.oracle.com&type=oracle\_database# Internet

7. Enter the following information and click the **Schedule** tab.Name: **wg\_job001**Owner: **HR**Enabled: **Yes**Description: **This job has a window group as its schedule**Command: **null;**

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?fromPage=scheduled&event=do\\_create&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?fromPage=scheduled&event=do_create&target=s030721&type=oracle_database)

ORACLE  
Enterprise Manager

Database: s030721 > Jobs > Create Job

## Create Job

Show SQL Cancel OK

**General** Schedule Options

- Name:
- Owner:
- Enabled:  Yes  No
- Description:
- Logging Level:   
Set how much logging pertaining to this job should be done
- Job Class:  [Create Job Class](#)
- Auto Drop:   
Whether the job should remain after having completed
- Restartable:   
Whether the job can be safely restarted (and should be restarted in case of failure)

### Command

Select the command type for this job, and specify the required information for that command type.

Command Type: **PL/SQL Block** [Change Command Type](#)

[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?fromPage=scheduled&event=do\\_create&target=s030721&typ](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?fromPage=scheduled&event=do_create&target=s030721&typ) Internet

- For Schedule Type, select **Use Pre-defined Window**. Select the **search light** next to the Window field.

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?pageName=schedule&state=create&oname=&sname=&uScheduleType=1&startTimeZoneSB=Gh> Go Links

ORACLE  
Enterprise Manager [Help](#) [Logout](#)

Database: s030721 > [Jobs](#) > Create Job

## Create Job

[Show SQL](#) [Cancel](#) [OK](#)

[General](#) [Schedule](#) [Options](#)

Schedule Type

Select a window or a window group. You can run the job in multiple windows by grouping the windows in a window group.

Window  [Show Details](#) [Create Window](#)

Stop on Window Close  
If TRUE, the job will be stopped if the associated window closes

[General](#) [Schedule](#) [Options](#)

[Show SQL](#) [Cancel](#) [OK](#)

[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

<http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?pageName=schedule&state=create&oname=&sname=&uSchedule> Internet

9. Select **HIGH\_LOAD\_WINDOW\_GROUP001** and click **Select** .

Oracle Enterprise Manager (HR) - Create Job - Microsoft Internet Explorer

## Search and Select: Window and Window Groups

Cancel Select

### Search

To find your item, select a schema in the pulldown list and enter a word in the text field, then select the "Go" button. To see a list of all tables in the selected schema, clear the search box and click the "Go" button.

Object Name  Go

### Results

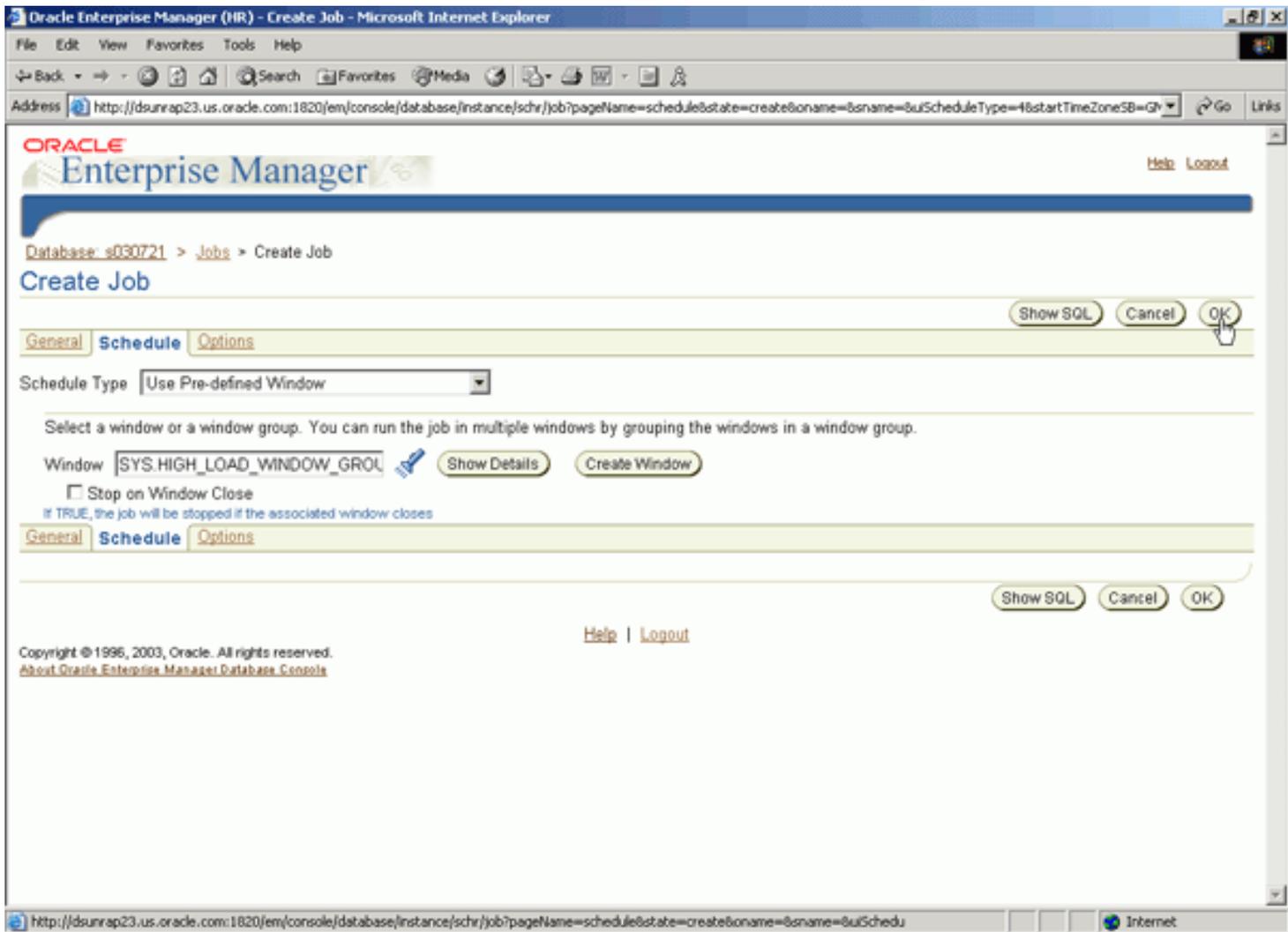
Select Name	Type
<input type="radio"/> ADMIN_WINDOW	Window
<input type="radio"/> COMPUTE_WINDOW001	Window
<input checked="" type="radio"/> HIGH_LOAD_WINDOW_GROUP001	Window Group
<input type="radio"/> MAINTENANCE_WINDOW_GROUP	Window Group
<input type="radio"/> WEEKNIGHT_WINDOW	Window

Cancel Select

javascript:lovSelect(window.opener.document.scheduleForm.windowName) Internet

Click **OK**.

10.



Notice that the job now appears under the Scheduled tab. Select your **Database** breadcrumb.

11.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?sname=HR&pageName=scheduled&event=create\\_ok&oname=WG\\_JOB001&target=s030721&...](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?sname=HR&pageName=scheduled&event=create_ok&oname=WG_JOB001&target=s030721&...)

ORACLE Enterprise Manager

Database: [s030721](#) > Jobs

Jobs

Confirmation

Job HR\_WG\_JOB001 has been created successfully

Page Refreshed Aug 3, 2003 7:48:24 AM

Scheduled [Running](#) [Disabled](#) [Run History](#)

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
<input checked="" type="radio"/>	<a href="#">WG_JOB001</a>	HR		n/a	<a href="#">DEFAULT_JOB_CLASS</a>	0
<input type="radio"/>	<a href="#">ALTER_IND:001</a>	HR	Aug 3, 2003 11:00:00 PM - 07:00	Aug 2, 2003 11:00:02 PM - 07:00	<a href="#">DEFAULT_JOB_CLASS</a>	6

Scheduled [Running](#) [Disabled](#) [Run History](#)

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[About Oracle Enterprise Manager Database Console](#)

Select **Windows** .

12.

Oracle Enterprise Manager (HR) - Database: s030721 - Microsoft Internet Explorer

Address: http://dsunrap23.us.oracle.com:1820/em/console/database/instance/sitemap?event=doLoad&instanceVersion=10.1.0.1.0&target=s030721&type=oracle\_database&pageNum=

ORACLE Enterprise Manager Help Logout

Logged in As HR

Database: s030721

Home Performance Administration

**Instance**  
[Memory Parameters](#)  
[Undo Management](#)  
[All Initialization Parameters](#)

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[Resource Consumer Group Mappings](#)  
[Resource Consumer Groups](#)  
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**Summary Management**  
[Materialized Views](#)  
[Materialized View Logs](#)  
[Refresh Groups](#)

**Workload**  
[Workload Repository](#)  
[SQL Tuning Sets](#)

Home Performance Administration

http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle\_database Internet

13. Now you will force the window in the window group to be activated to allocate the appropriate resource plan. Select the radio button for **COMPUTE\_WINDOW001** and select **Open** from the drop down list box and click **Go** .

Oracle Enterprise Manager (EM) - Windows - Microsoft Internet Explorer

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle_database)

Oracle Enterprise Manager

Database: s030721 > Windows

Windows

Following are the system windows which specify resource usage limits based on time windows.

View Edit Delete Open Create

Select	Name	Resource Plan	Enabled	Next Open Date	End Date	Duration (min)	Active	Description
<input type="radio"/>	ADMIN_WINDOW	ADMIN_PLAN	TRUE	Aug 1, 2003 2:43:02 PM		240	FALSE	
<input checked="" type="radio"/>	COMPUTE_WINDOW001	COMPUTE_PLAN001	TRUE	Aug 1, 2003 6:00:00 PM	Aug 1, 2004 11:00:00 PM	240	FALSE	For the duration of this window the COMPUTE_PLAN001 will be active.
<input type="radio"/>	WEEKNIGHT_WINDOW		TRUE	Aug 4, 2003 10:00:00 PM		480	FALSE	Weeknight window for maintenance task

Related Link: [Jobs](#)

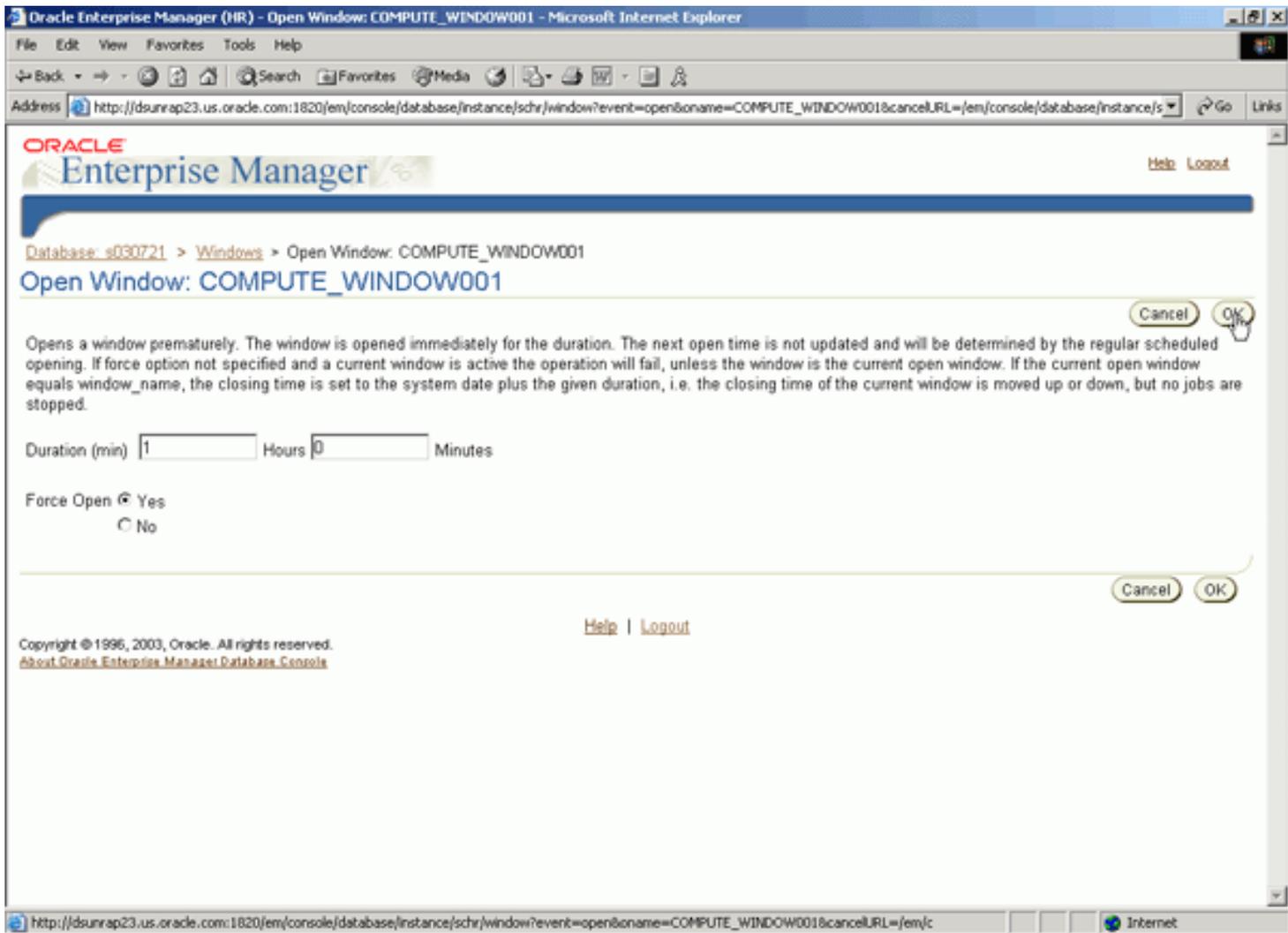
Copyright © 1996, 2003, Oracle. All rights reserved.  
[About Oracle Enterprise Manager Database Controls](#)

Help | Logout

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle\\_database#](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle_database#)

Click **Yes** for Force Open and click **OK**.

14.



Select **Jobs** under Related Link.

15.

Oracle Enterprise Manager (HR) - Windows - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/windows?event=doLoad&target=s030721&type=oracle_database)

**ORACLE**  
Enterprise Manager [Help](#) [Logout](#)

Database: s030721 > Windows

## Windows

Following are the system windows which specify resource usage limits based on time windows.

[Create](#)

[View](#) [Edit](#) [Delete](#) [Create Like](#) [Go](#)

Select	Name	Resource Plan	Enabled	Next Open Date	End Date	Duration (min)	Active	Description
<input type="radio"/>	<a href="#">ADMIN_WINDOW</a>	<a href="#">ADMIN_PLAN</a>	TRUE	Aug 1, 2003 2:43:02 PM		240	FALSE	
<input checked="" type="radio"/>	<a href="#">COMPUTE_WINDOW001</a>	<a href="#">COMPUTE_PLAN001</a>	TRUE	Aug 1, 2003 6:00:00 PM	Aug 1, 2004 11:00:00 PM	240	TRUE	For the duration of this window the COMPUTE_PLAN001 will be active.
<input type="radio"/>	<a href="#">WEEKNIGHT_WINDOW</a>		TRUE	Aug 4, 2003 10:00:00 PM		480	FALSE	Weeknight window for maintenance task

Related Link [Jobs](#)

[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle_database) Internet

Select the **Run History** tab.

16.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle_database)

ORACLE  
Enterprise Manager [Help](#) [Logout](#)

Database: s030721 > Jobs

## Jobs

Page Refreshed Aug 3, 2003 7:48:24 AM [Create](#) [Refresh](#)

[Scheduled](#) [Running](#) [Disabled](#) [Run History](#)

[Edit](#) [View](#) [Delete](#) [Run Now](#) [Create Like](#)

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
<input checked="" type="radio"/>	<a href="#">WG_JOB001</a>	HR		n/a	<a href="#">DEFAULT_JOB_CLASS</a>	0
<input type="radio"/>	<a href="#">ALTER_IND001</a>	HR	Aug 3, 2003 11:00:00 PM - 07:00	Aug 2, 2003 11:00:02 PM - 07:00	<a href="#">DEFAULT_JOB_CLASS</a>	6

[Scheduled](#) [Running](#) [Disabled](#) [Run History](#)

[Create](#)

[Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Controls](#)

[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pageName=history&target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pageName=history&target=s030721&type=oracle_database) Internet

The job was run.

17.

Oracle Enterprise Manager (HR) - Jobs - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://139.185.33.224:5500/em/console/database/instance/schr/jobs?pageName> Go

Links [Aria](#) [Customize Links](#) [Files Online](#) [Free Hotmail](#) [My Oracle](#) [Network Request](#) [Oracle CRM](#)

**ORACLE**  
Enterprise Manager Help Logout

Database: [orcl.us.oracle.com](#) > Jobs

## Jobs

Page Refreshed Aug 22, 2003 12:23:25 AM Refresh  
Create

Scheduled Running Disabled **Run History**

Purge All Logs

View Purge Log

Select	Name	Owner	Status	Completion Date	Run Duration (minutes)
<input type="radio"/>	<a href="#">ALTER_INDX001</a>	HR	SUCCESS	Aug 22, 2003 12:22:51 AM -07:00	0.0
<input checked="" type="radio"/>	<a href="#">VWG_JOB001</a>	HR	SUCCESS	Aug 22, 2003 12:22:51 AM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_INDX001</a>	HR	SUCCESS	Aug 21, 2003 10:00:06 PM -07:00	0.0
<input type="radio"/>	<a href="#">VWG_JOB001</a>	HR	SUCCESS	Aug 21, 2003 10:00:06 PM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_INDX001</a>	HR	SUCCESS	Aug 21, 2003 6:09:06 PM -07:00	0.0

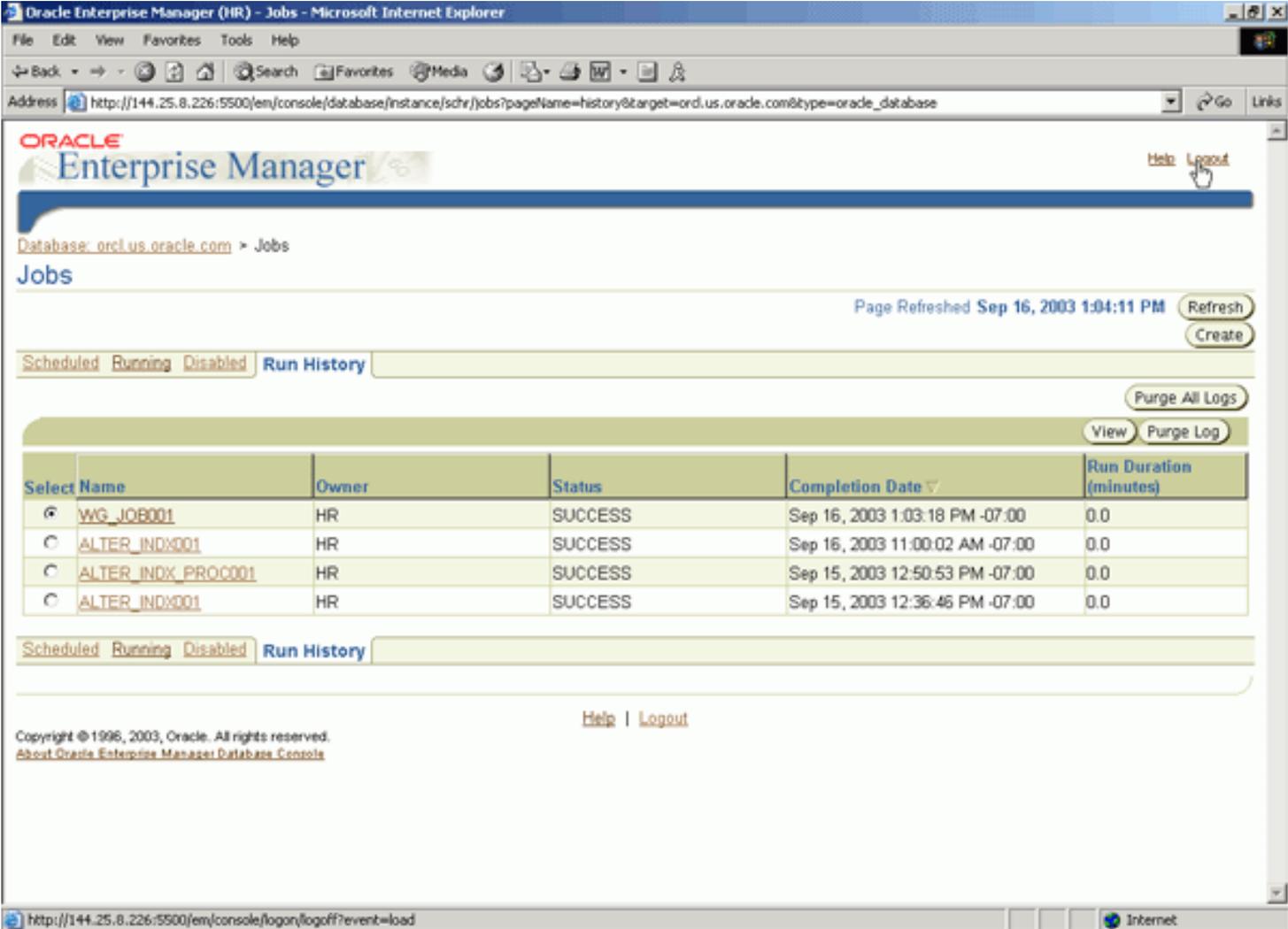
Internet

## Purging Logs

[Back to Topic List](#)

You can purge job logs. Perform the following:

1. You need to purge the logs as the sys user. Click **Logout** .

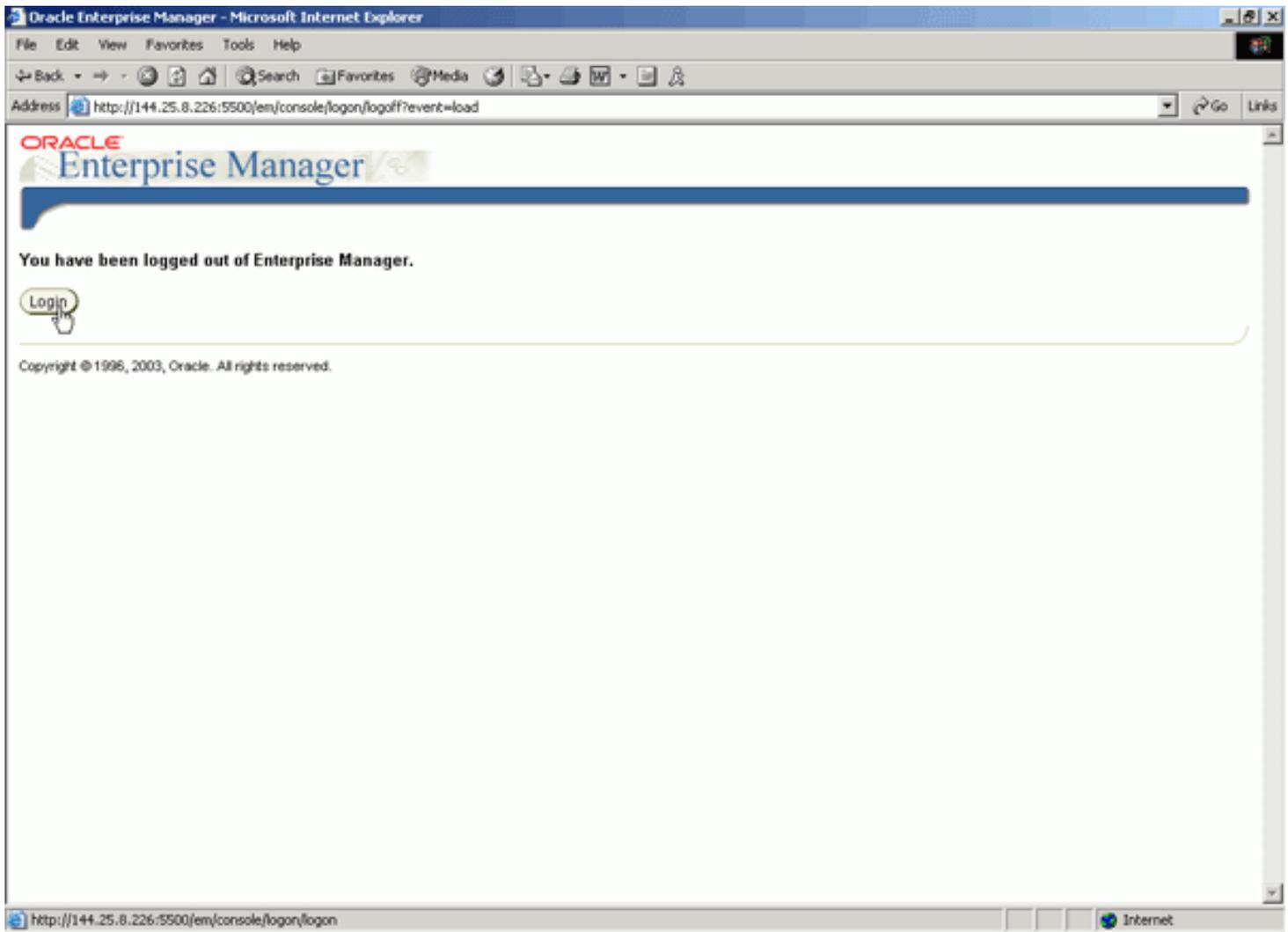


The screenshot shows the Oracle Enterprise Manager interface in Microsoft Internet Explorer. The browser address bar displays the URL: `http://144.25.8.226:5500/em/console/database/instance/schv/jobs?pageName=history&target=ord.us.oracle.com&type=oracle_database`. The page title is "Oracle Enterprise Manager". The breadcrumb navigation shows "Database: orcl.us.oracle.com > Jobs". The main heading is "Jobs". The page indicates it was refreshed on "Sep 16, 2003 1:04:11 PM". There are buttons for "Refresh" and "Create". Below the heading, there are tabs for "Scheduled", "Running", "Disabled", and "Run History". The "Run History" tab is active. There are buttons for "Purge All Logs", "View", and "Purge Log". A table displays the job execution history:

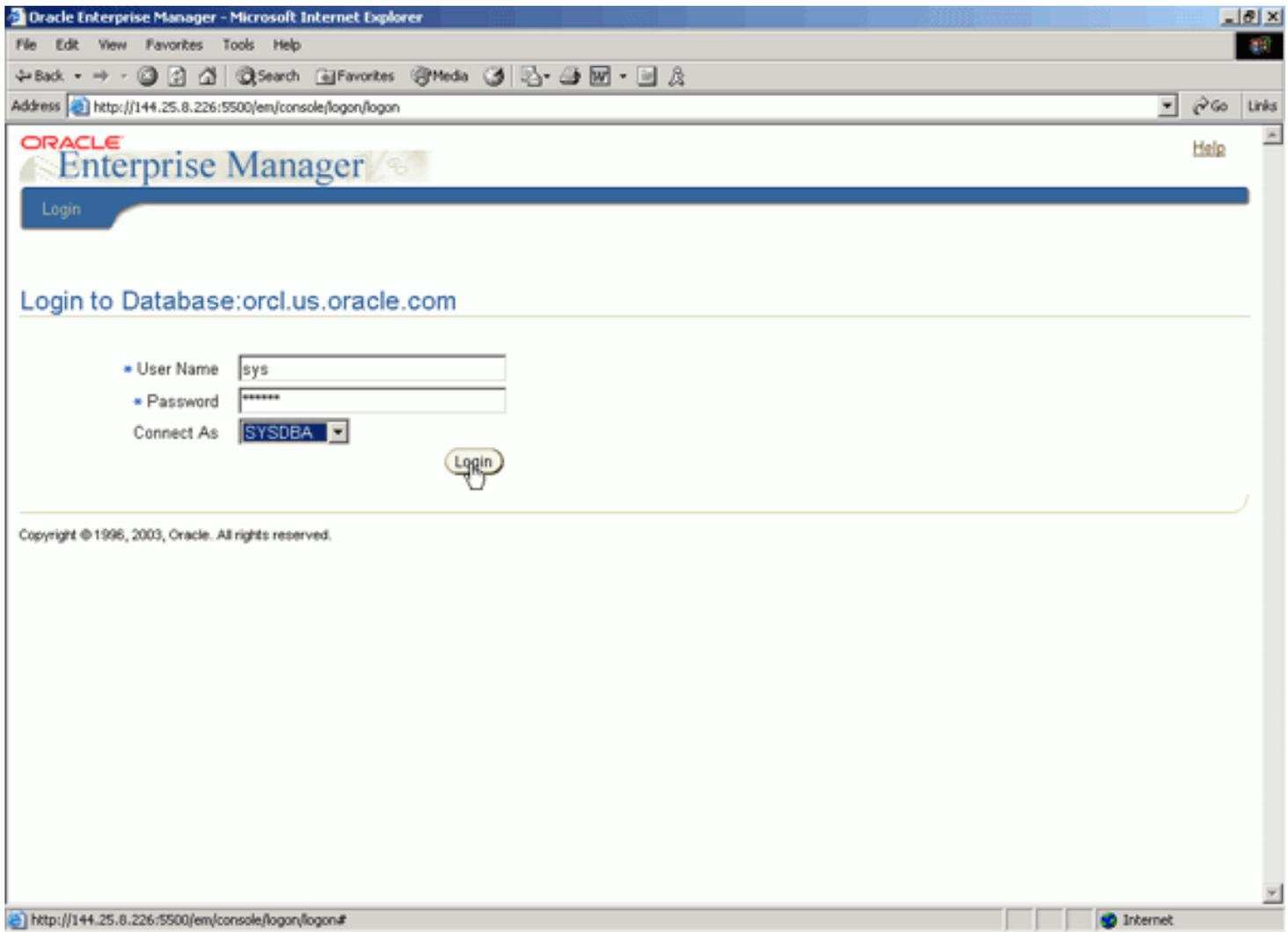
Select	Name	Owner	Status	Completion Date	Run Duration (minutes)
<input checked="" type="radio"/>	<a href="#">WG_JOB001</a>	HR	SUCCESS	Sep 16, 2003 1:03:18 PM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_INDX001</a>	HR	SUCCESS	Sep 16, 2003 11:00:02 AM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_INDX_PROCC001</a>	HR	SUCCESS	Sep 15, 2003 12:50:53 PM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_INDX001</a>	HR	SUCCESS	Sep 15, 2003 12:36:46 PM -07:00	0.0

Below the table, there are tabs for "Scheduled", "Running", "Disabled", and "Run History". The "Run History" tab is active. At the bottom of the page, there is a "Help | Logout" link and a copyright notice: "Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager Database Controls". The browser status bar shows the URL: `http://144.25.8.226:5500/em/console/login/logoff?event=load` and the Internet icon.

2. Click **Login** .



3. Enter **sys/<password>** as **SYSDBA** and click **Login** .



4. Click **Administration** .

Oracle Enterprise Manager (SYS) - Database: orcl.us.oracle.com - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database)

**ORACLE** Enterprise Manager [Setup](#) [Preferences](#) [Help](#) [Logout](#)

Database

Logged in As SYS

Database: orcl.us.oracle.com

Home [Performance](#) [Administration](#) [Maintenance](#)

Latest Data Collected From Target **Sep 15, 2003 7:41:13 AM** [Refresh](#)

View Data [Real Time](#): [Manual Refresh](#)

### General

**Status Up** [Shutdown](#)

Up Since **Aug 26, 2003 7:54:03 PM**

Time Zone **PDT**

Availability (%) **100**  
(Last 24 hours)

Instance Name **orcl**

Version **10.1.0.1.0**

Host **EDCDR26P1**

Listener **LISTENER\_EDCDR26P1**

Oracle Home **[/oracle/ora10g](#)**

Alert Log **[No ORA- errors](#)**

### Host CPU

Run Queue **Unavailable**

Paging (pages per second) **Unavailable**

### Active Sessions

**100%**

No data is currently available.

Active Sessions **Unavailable**

SQL Response Time (%) **Unavailable**  
(compared to baseline)

### Space Usage

Problem Tablespace **0**

Fragmentation **Not Configured**

Dump Area Used (%) **Unavailable**

### Advice

ADDM Findings **1**

Policy Violations **23**

### High Availability

Instance Recovery Time (seconds) **2**

Last Backup Archiving **n/a Disabled**

Archive Area Used (%) **n/a**

Flashback Logging **Enabled**

### Job Activity

Scheduled Executions **0**

Running Executions **0**

Suspended Executions **0**

Problem Executions **0**  
(Last 7 days)

[...](#)

[http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database&page#](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database&page#) Internet

5. Click **Jobs** .

The screenshot displays the Oracle Enterprise Manager (SYS) web interface in a Microsoft Internet Explorer browser. The browser's address bar shows the URL: [http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle\\_database&pageNum=3](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle_database&pageNum=3). The page title is "Oracle Enterprise Manager (SYS) - Database: orcl.us.oracle.com - Microsoft Internet Explorer".

The Oracle Enterprise Manager logo is at the top left, and the "Database" tab is selected at the top right. The user is logged in as "SYS". The main navigation bar includes "Home", "Performance", "Administration", and "Maintenance".

The "Administration" section is expanded, showing several sub-sections:

- Instance**: [Memory Parameters](#), [Undo Management](#), [All Initialization Parameters](#)
- Storage**: [Controlfiles](#), [Tablespaces](#), [Datafiles](#), [Rollback Segments](#), [Redo Log Groups](#), [Archive Logs](#), [Temporary Tablespace Groups](#)
- Security**: [Users](#), [Roles](#), [Profiles](#)
- Resource Manager**: [Resource Monitors](#), [Resource Consumer Group Mappings](#), [Resource Consumer Groups](#), [Resource Plans](#)
- Scheduler**: [Jobs](#), [Schedules](#), [Programs](#), [Job Classes](#), [Windows](#), [Window Groups](#)
- Schema**: [Tables](#), [Indexes](#), [Views](#), [Synonyms](#), [Sequences](#), [Database Links](#)
- Source Types**: [Packages](#), [Package Bodies](#), [Procedures](#), [Functions](#), [Triggers](#), [Java Sources](#), [Java Classes](#)
- User Types**: [Array Types](#), [Object Types](#), [Table Types](#)
- Warehouse**: [OLAP](#), [Cubes](#), [OLAP Dimensions](#), [Measure Folders](#)
- Summary Management**: [Materialized Views](#), [Materialized View Logs](#), [Refresh Groups](#)
- Configuration Management**: [Last Collected Configuration](#), [Database Usage Statistics](#)
- Workload**: [Workload Repository](#), [SQL Tuning Sets](#)

The bottom navigation bar also includes "Home", "Performance", "Administration", and "Maintenance". The browser's status bar at the bottom shows the URL: [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=orcl.us.oracle.com&type=oracle_database).

6. Click the **Run History** tab.

Oracle Enterprise Manager (SYS) - Jobs - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=scheduled&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=scheduled&target=orcl.us.oracle.com&type=oracle_database)

ORACLE  
Enterprise Manager  
Database

Database: [orcl.us.oracle.com](#) > Jobs

Jobs

Page Refreshed Sep 16, 2003 1:09:42 PM Refresh Create

Scheduled Running Disabled Run History

Edit View Delete Run Now Create Like

Select	Name	Owner	Scheduled Date	Last Run Date	Job Class	Previous Runs
<input checked="" type="radio"/>	<a href="#">WG_JOB001</a>	HR		Sep 16, 2003 1:03:18 PM - 07:00	<a href="#">DEFAULT_JOB_CLASS</a>	1
<input type="radio"/>	<a href="#">ALTER_IND%001</a>	HR	Sep 17, 2003 11:00:00 AM - 07:00	Sep 16, 2003 11:00:01 AM - 07:00	<a href="#">DEFAULT_JOB_CLASS</a>	1
<input type="radio"/>	<a href="#">PURGE_LOG</a>	SYS	Sep 16, 2003 3:00:00 AM - 07:00	Sep 15, 2003 12:19:51 PM - 07:00	<a href="#">DEFAULT_JOB_CLASS</a>	8
<input type="radio"/>	<a href="#">GATHER_STATS_JOB</a>	SYS		Sep 15, 2003 10:00:05 PM - 07:00	<a href="#">AUTO_TASKS_JOB_CLASS</a>	8

Scheduled Running Disabled Run History

Database | [Setup](#) | [Preferences](#) | [Help](#) | [Logout](#)

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[About Oracle Enterprise Manager Database Control](#)

[http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle_database) Internet

7. Click **Purge All Logs**.

Oracle Enterprise Manager (SYS) - Jobs - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle_database)

ORACLE  
Enterprise Manager

Setup Preferences Help Logout

Database

Database: orcl.us.oracle.com > Jobs

## Jobs

Page Refreshed Sep 16, 2003 1:09:54 PM Refresh Create

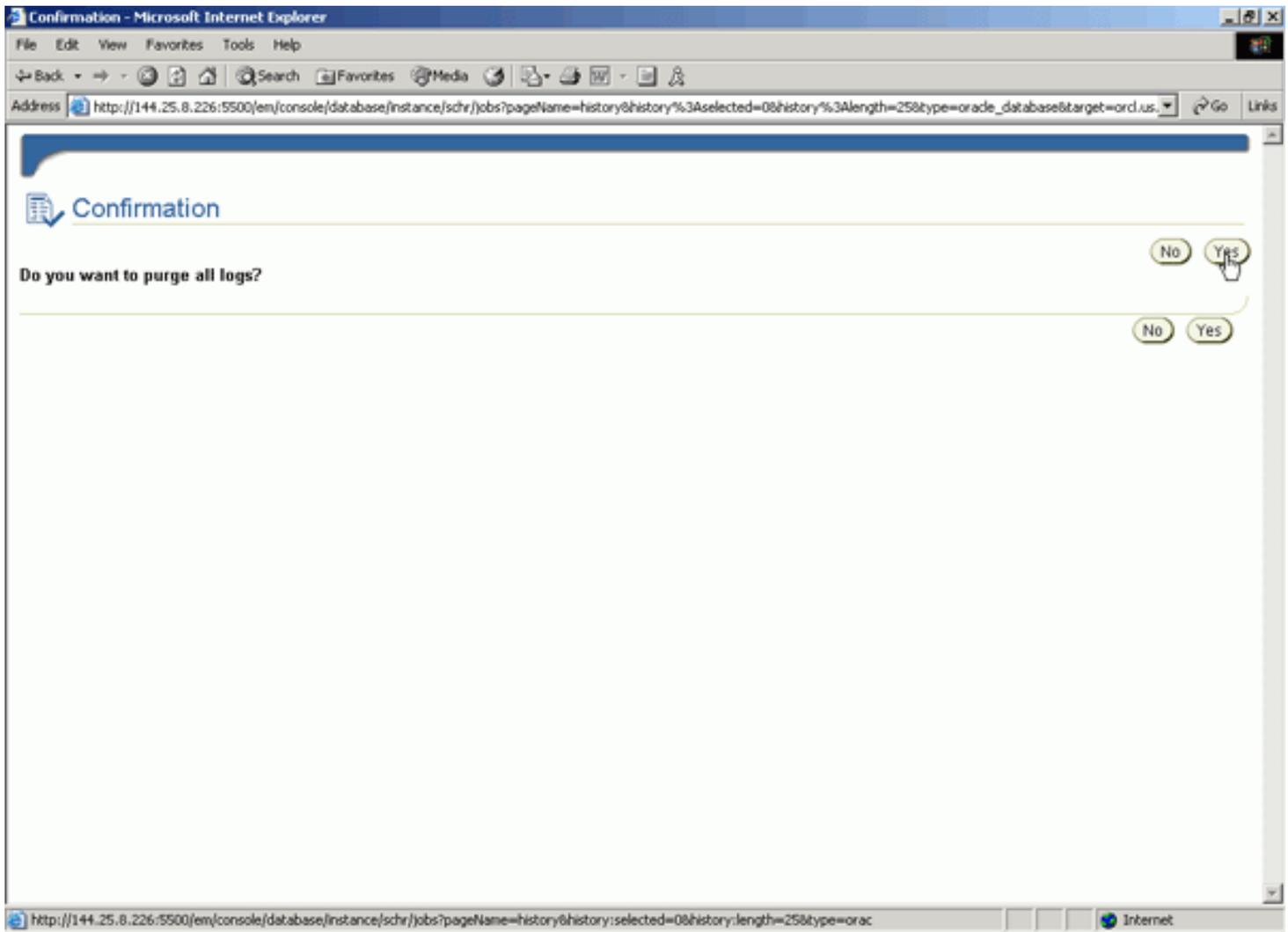
Scheduled Running Disabled **Run History**

Purge All Logs View Purge Log

Select	Name	Owner	Status	Completion Date	Run Duration (minutes)
<input checked="" type="radio"/>	<a href="#">WG_JOB001</a>	HR	SUCCESS	Sep 16, 2003 1:03:18 PM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_IND%001</a>	HR	SUCCESS	Sep 16, 2003 11:00:02 AM -07:00	0.0
<input type="radio"/>	<a href="#">CPU_JOB001</a>	SYSTEM	SUCCESS	Sep 16, 2003 9:57:44 AM -07:00	0.18
<input type="radio"/>	<a href="#">CPU_JOB002</a>	SYSTEM	SUCCESS	Sep 16, 2003 9:57:15 AM -07:00	0.18
<input type="radio"/>	<a href="#">GATHER_STATS_JOB</a>	SYS	SUCCESS	Sep 15, 2003 10:01:57 PM -07:00	1.86
<input type="radio"/>	<a href="#">ALTER_IND%001</a>	HR	SUCCESS	Sep 15, 2003 12:50:53 PM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_IND%001</a>	HR	SUCCESS	Sep 15, 2003 12:36:46 PM -07:00	0.0
<input type="radio"/>	<a href="#">PURGE_LOG</a>	SYS	SUCCESS	Sep 15, 2003 12:19:53 PM -07:00	0.05
<input type="radio"/>	<a href="#">GATHER_STATS_JOB</a>	SYS	SUCCESS	Sep 1, 2003 10:01:50 PM -07:00	1.7
<input type="radio"/>	<a href="#">PURGE_LOG</a>	SYS	SUCCESS	Aug 31, 2003 3:00:04 AM -07:00	0.01
<input type="radio"/>	<a href="#">GATHER_STATS_JOB</a>	SYS	SUCCESS	Aug 30, 2003 6:02:21 AM -07:00	2.18
<input type="radio"/>	<a href="#">PURGE_LOG</a>	SYS	SUCCESS	Aug 30, 2003 3:00:03 AM -07:00	0.01
<input type="radio"/>	<a href="#">GATHER_STATS_JOB</a>	SYS	SUCCESS	Aug 29, 2003 10:01:46 PM -07:00	1.63
<input type="radio"/>	<a href="#">PURGE_LOG</a>	SYS	SUCCESS	Aug 29, 2003 3:00:05 AM -07:00	0.01

[http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?pageName=history&target=orcl.us.oracle.com&type=oracle_database) Internet

8. Click **Yes** to confirm.



9. All the logs have been purged.

The screenshot shows the Oracle Enterprise Manager interface in Microsoft Internet Explorer. The browser title is "Oracle Enterprise Manager (SYS) - Jobs - Microsoft Internet Explorer". The address bar shows the URL: [http://144.25.8.226:15500/em/console/database/instance/schr/jobs?pageName=history&event=doPurgeAll&type=oracle\\_database&target=orcl.us.oracle.com](http://144.25.8.226:15500/em/console/database/instance/schr/jobs?pageName=history&event=doPurgeAll&type=oracle_database&target=orcl.us.oracle.com). The page header includes the Oracle logo and "Enterprise Manager" with navigation links for "Setup", "Preferences", "Help", and "Logout". A "Database" tab is visible in the top right.

The main content area shows a confirmation message: "Confirmation" with an information icon and the text "All logs are purged." Below this is a "Jobs" section with a "Page Refreshed Sep 16, 2003 1:11:03 PM" and buttons for "Refresh" and "Create". There are tabs for "Scheduled", "Running", "Disabled", and "Run History". A "Purge All Logs" button is also present.

Select Name	Owner	Status	Completion Date	Run Duration (minutes)
No job history found				

At the bottom of the page, there is a copyright notice: "Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager Database Controls". Navigation links for "Database", "Setup", "Preferences", "Help", and "Logout" are repeated at the bottom. The browser status bar shows "Done" and "Internet".

 Place the cursor on this icon to hide all screenshots.