

# 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

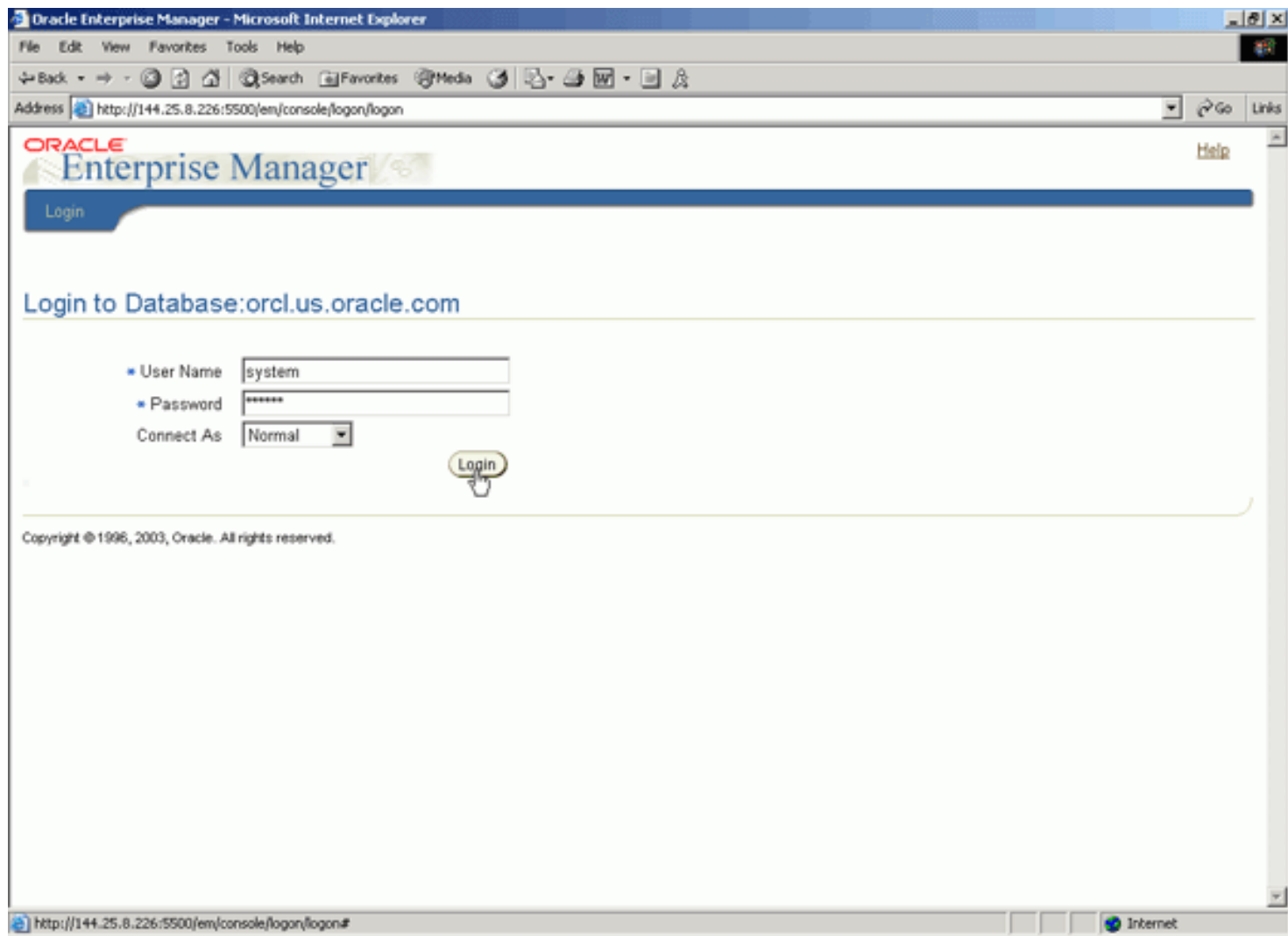
[Back to Topic List](#)

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:

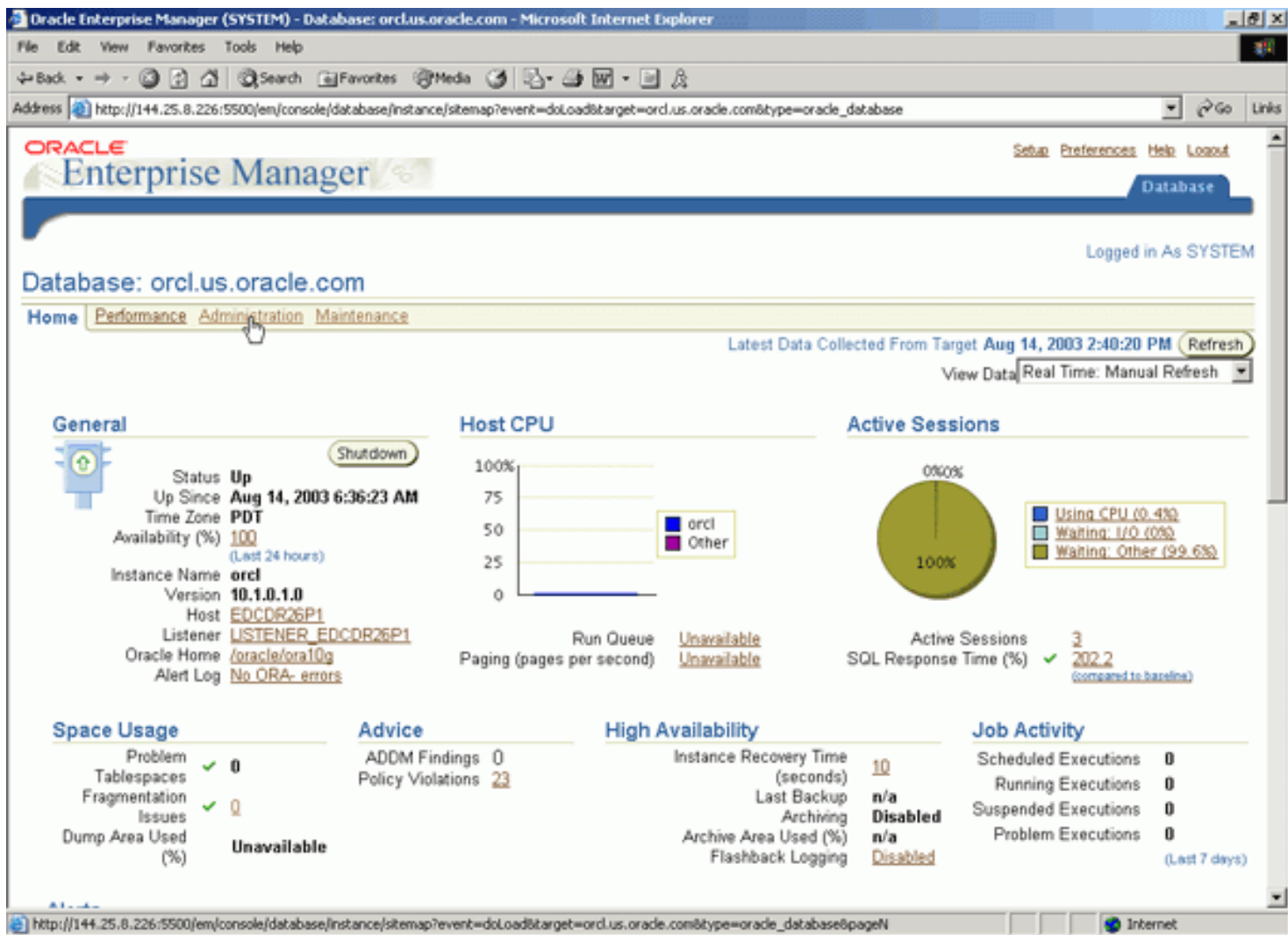
1. Open a browser and enter the following URL:

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

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



2. Click the **Administration** tab.



### 3. Select Users .

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

File Edit View Favorites Tools Help

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Address http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=orcl.us.oracle.com&type=oracle\_database&pageNum=3 Go Links

**ORACLE** Enterprise Manager Database

Setup Preferences Help Logout

Logged in As SYSTEM

Database: orcl.us.oracle.com

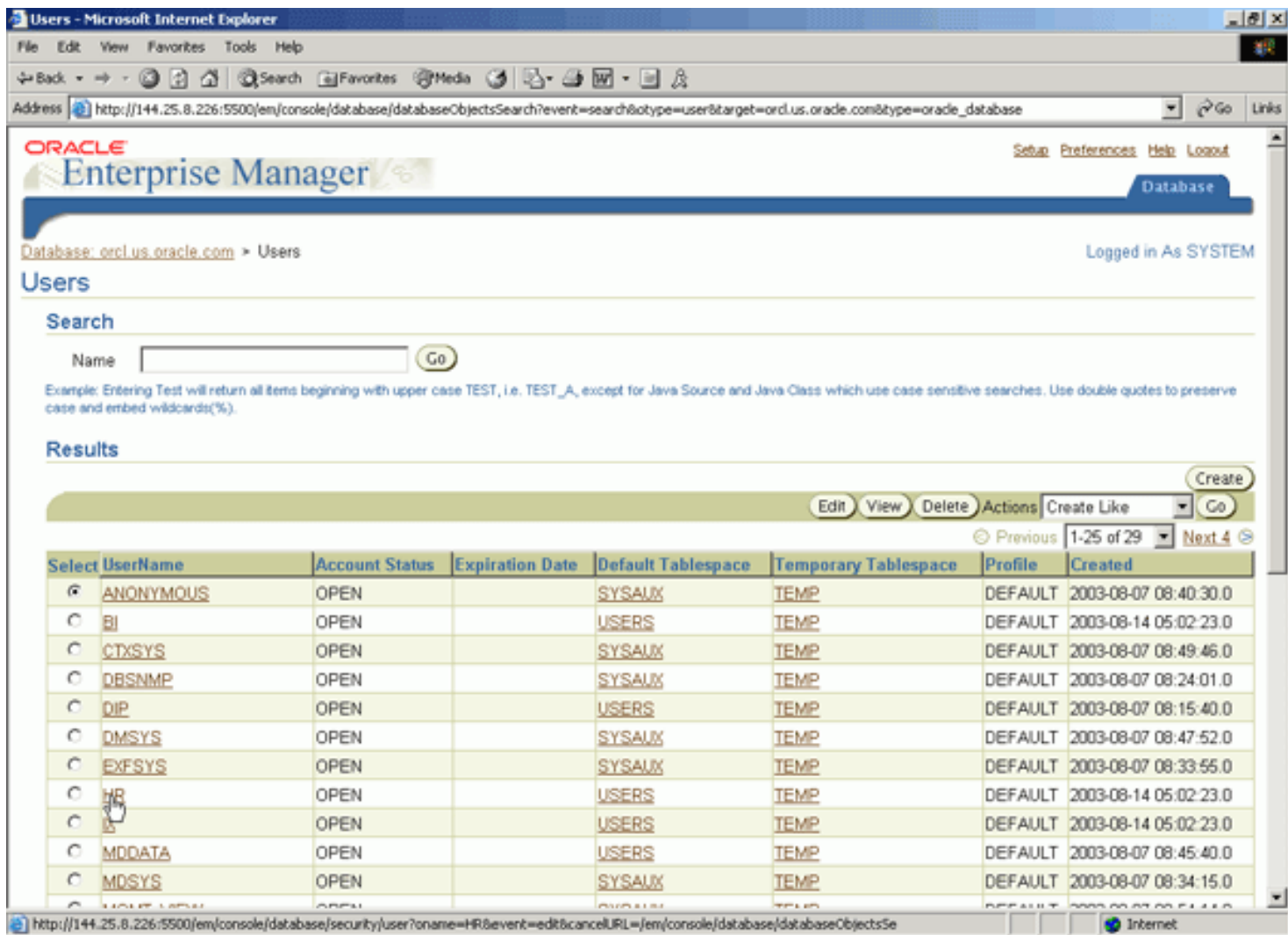
Home Performance Administration Maintenance

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

Home Performance Administration Maintenance

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

- Select the **HR** user.



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/databaseObjectsSearch?event=search&otype=user&target=orcl.us.oracle.com&type=oracle_database`. The page title is "Users - Microsoft Internet Explorer". The Oracle Enterprise Manager logo is at the top left, and the "Database" tab is selected at the top right. The breadcrumb trail shows "Database: orcl.us.oracle.com > Users". The user is logged in as "SYSTEM".

The "Users" section has a search bar with the label "Search" and a "Go" button. Below the search bar, an example text states: "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(%)." The "Results" section shows a table of users with columns: Select, UserName, Account Status, Expiration Date, Default Tablespace, Temporary Tablespace, Profile, and Created. The table contains 14 rows of user data. The "Create" button is at the top right of the results section. The "Previous" and "Next 4" buttons are at the bottom of the results section. The "Go" button is at the bottom right of the results section.

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"/>	LB	OPEN		USERS	TEMP	DEFAULT	2003-08-14 05:02:23.0
<input type="radio"/>	MDQDATA	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
<input type="radio"/>	SCOTT	OPEN		USERS	TEMP	DEFAULT	2003-08-07 08:41:15.0

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

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

File Edit View Favorites Tools Help

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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

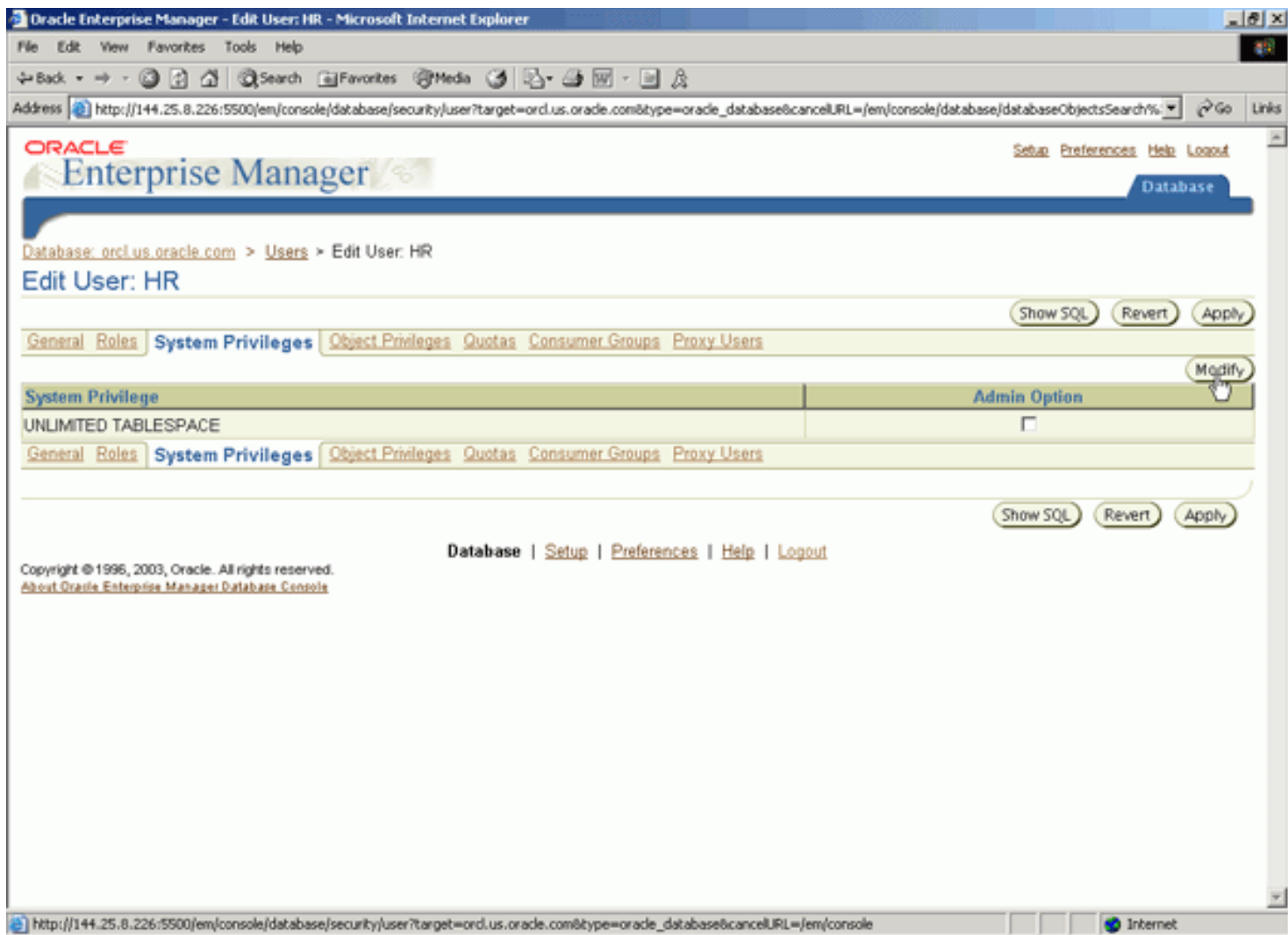
Show SQL Revert Apply

Database | Setup | Preferences | Help | Logout

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[About Oracle Enterprise Manager Database Console](#)

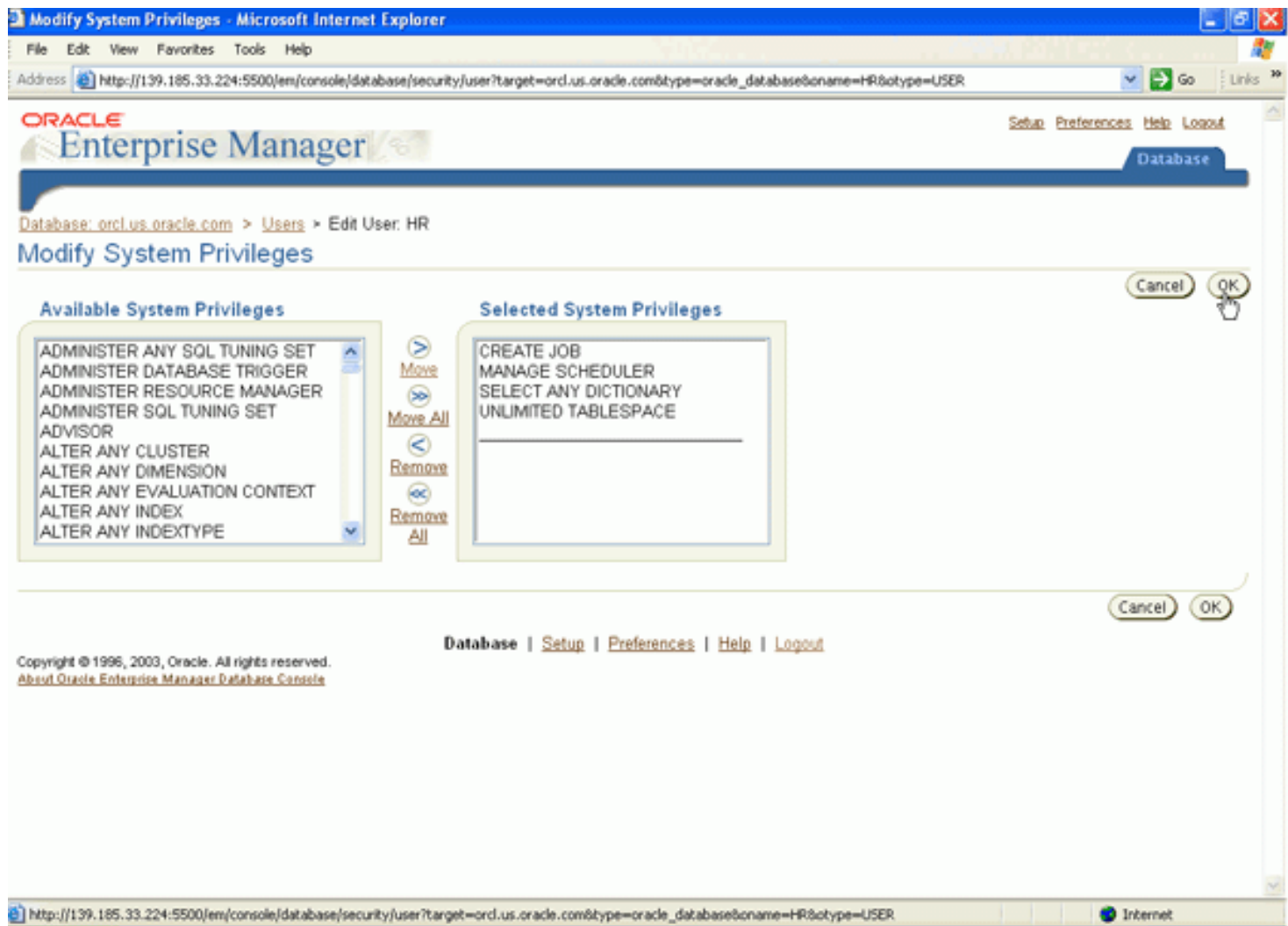
<http://144.25.8.226:5500/em/console/database/security/user?oname=HR&event=edit&cancelURL=/em/console/database/databaseObjectsSe> Internet

6. Click **Modify** .

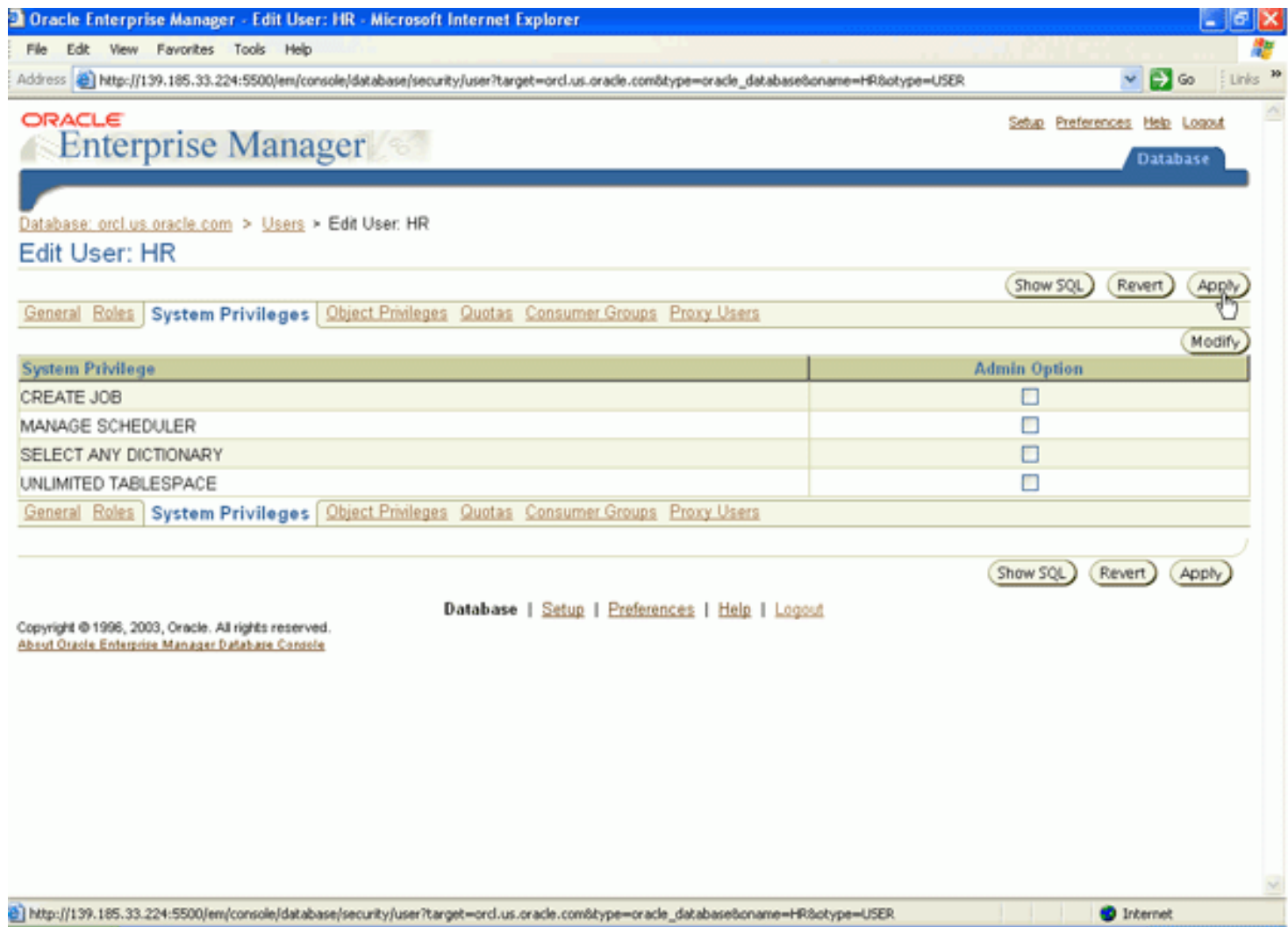


7. Select the privileges **CREATE JOB** , **MANAGE SCHEDULER** and **SELECT ANY DICTIONARY** and click **Move** . Then click **OK** . Normally, the **MANAGE SCHEDULER** system privilege does not need to be granted to users. However, HR will need this system privilege to be able to force open a window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



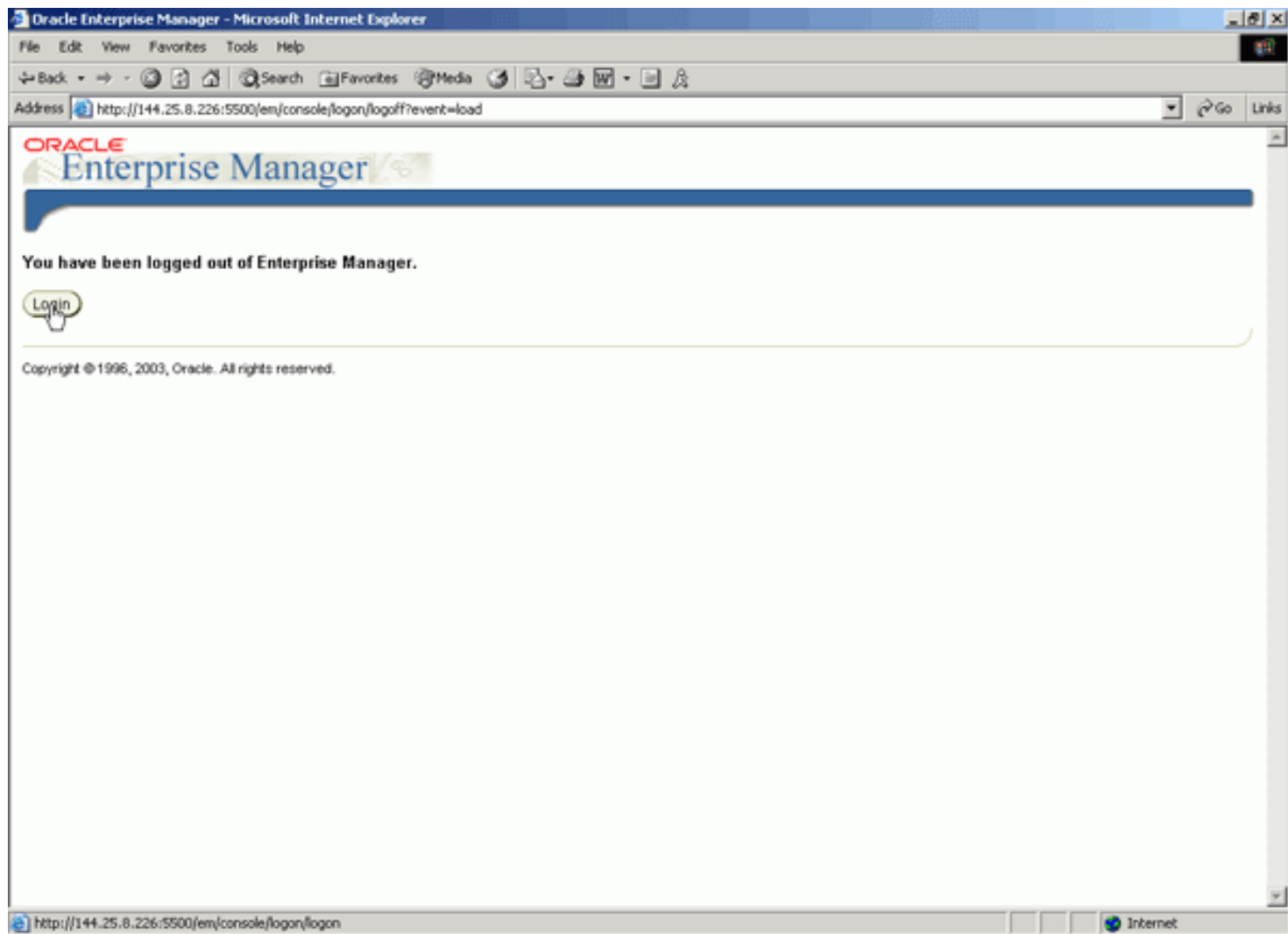


8. Click **Apply** .



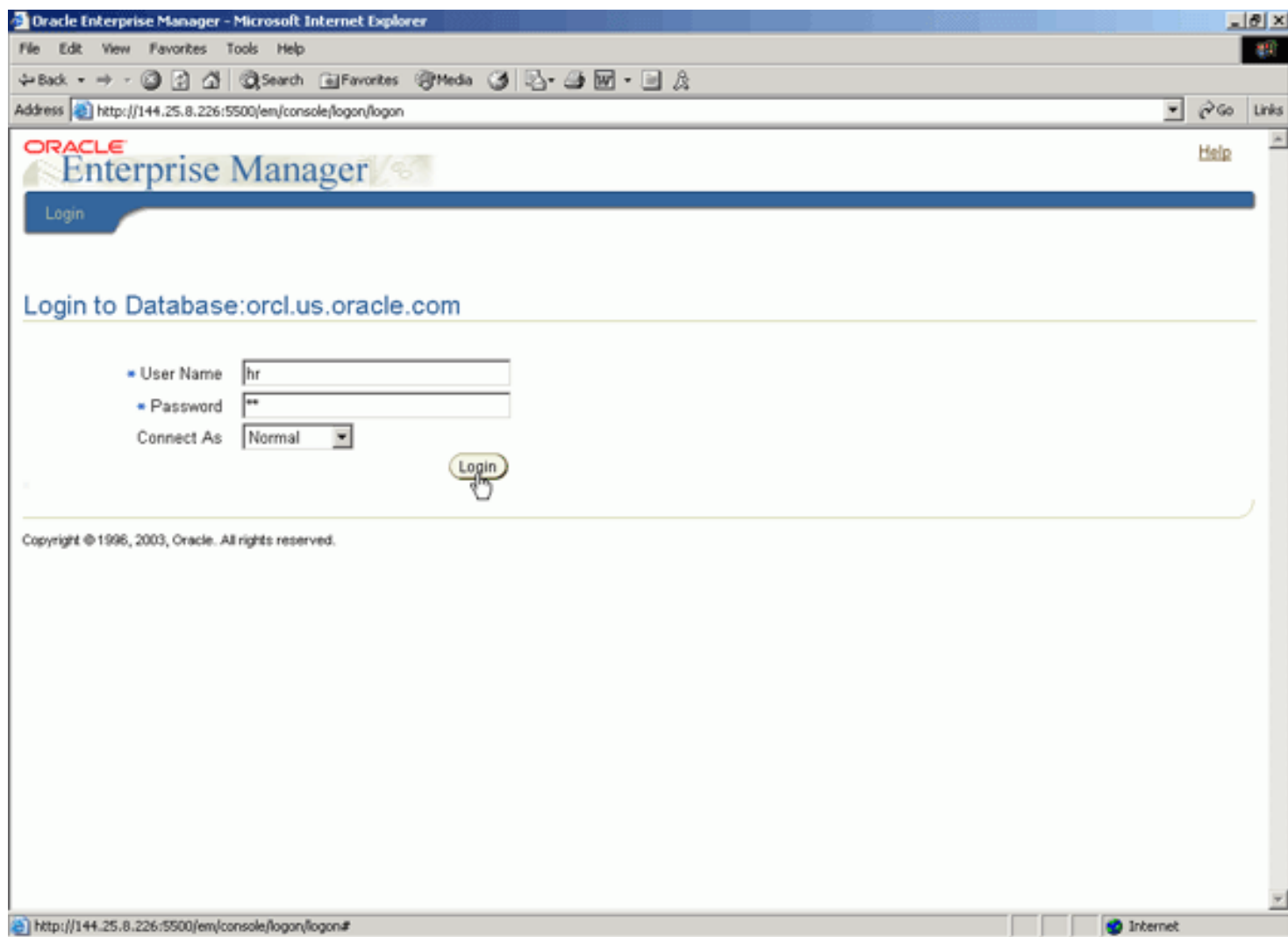
9. You can now logoff as SYSTEM and log on as the user HR. Click **Logout**.

**10.**



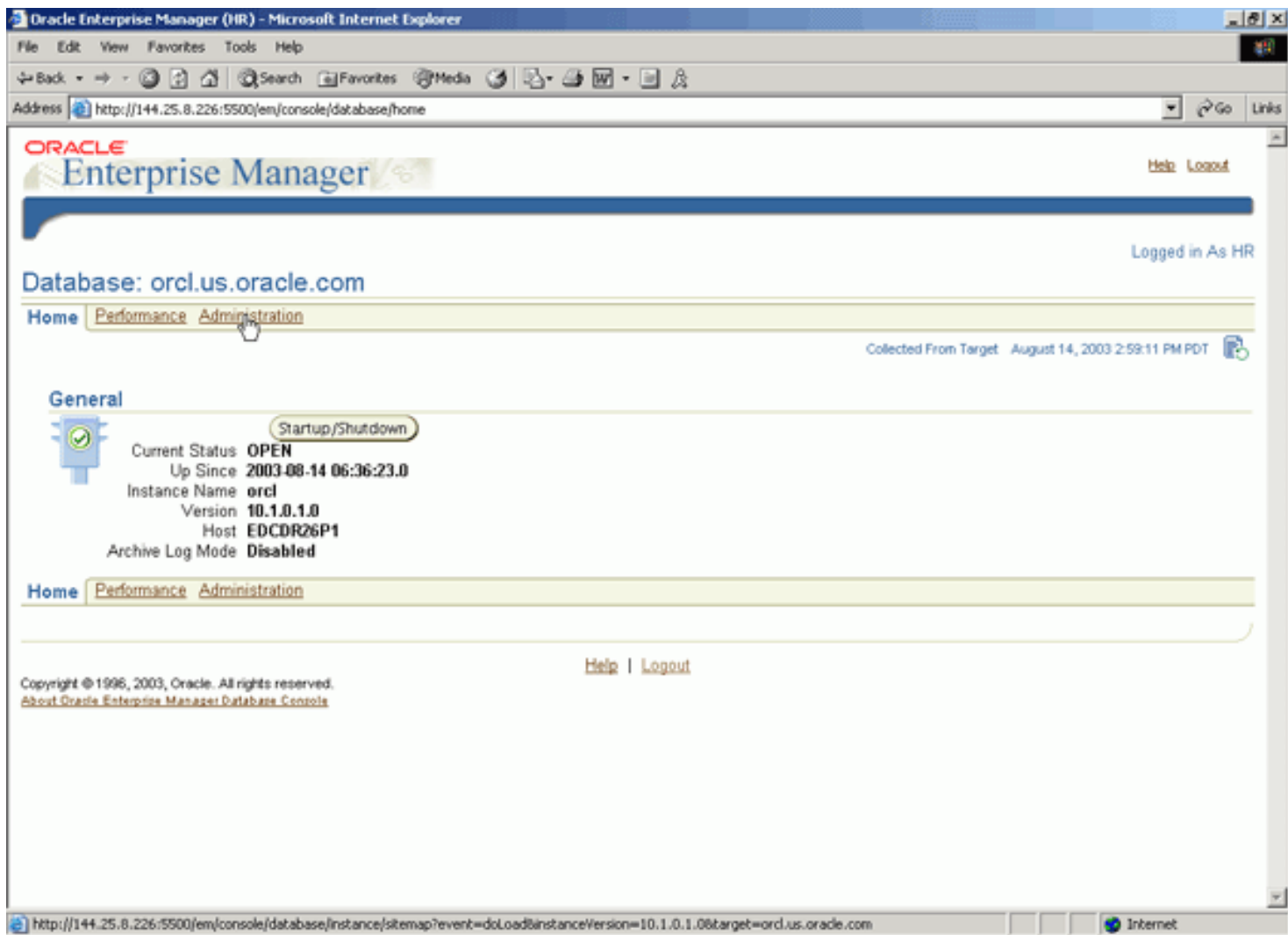
Enter **hr/hr** then click **Login** .

11.



Click the **Administration** tab.

12.



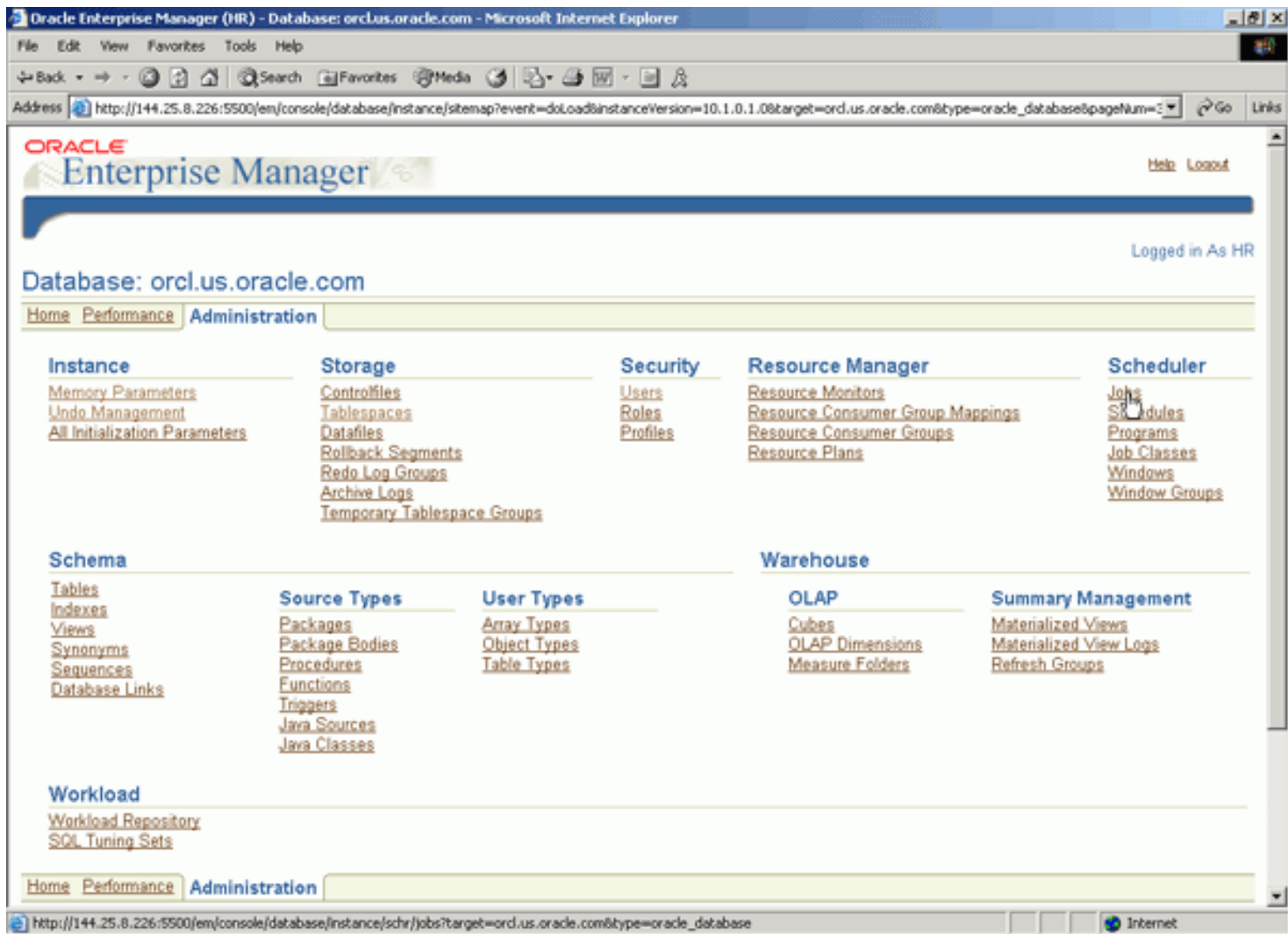
You are now ready to create some jobs.

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

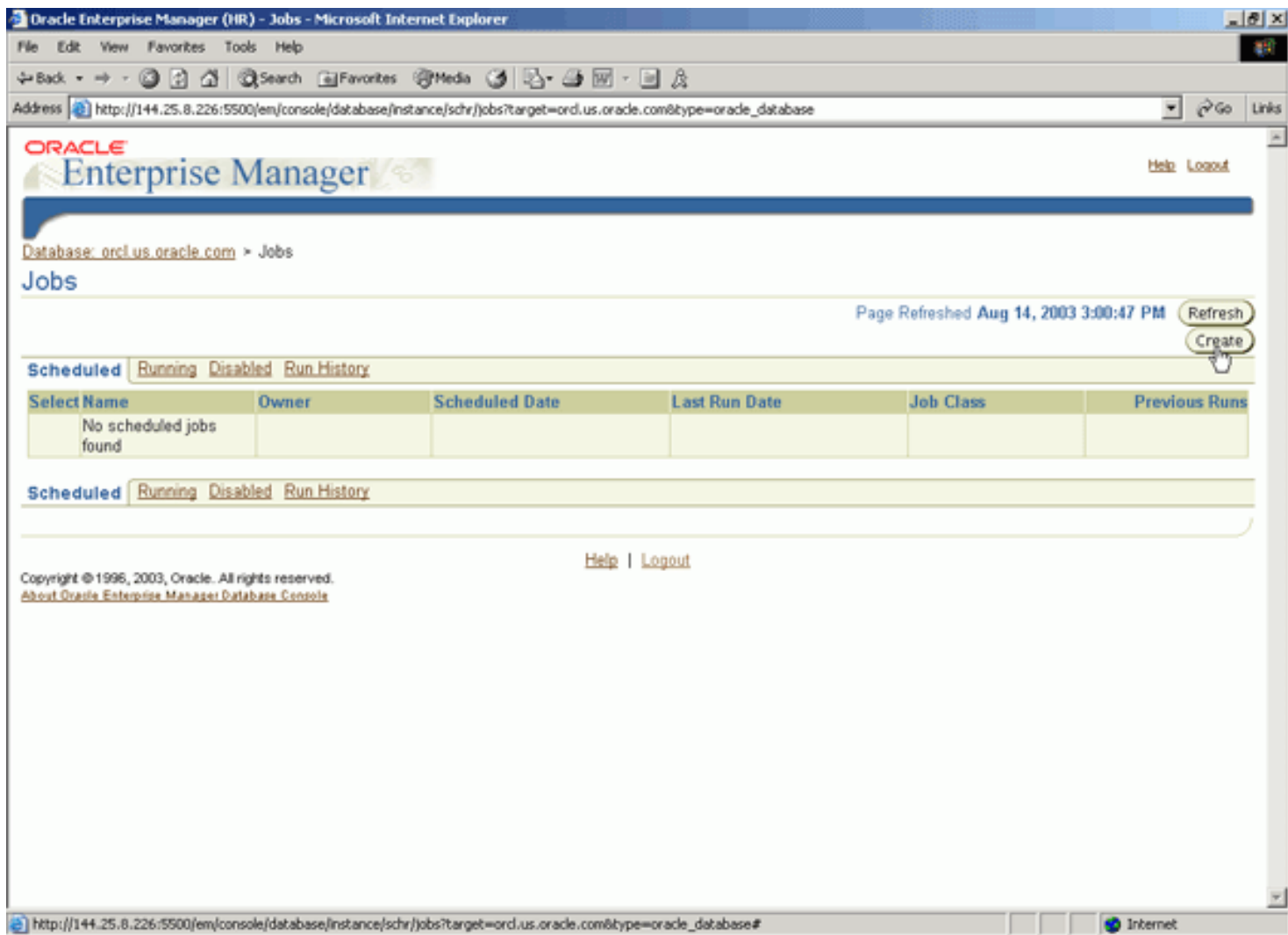
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You will first create a simple, self-contained job. This means that all the job attributes will be specified in the job itself. Perform the following:

1. Select the **Jobs** link.



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



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

Name: **alter\_idx001**

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

File Edit View Favorites Tools Help

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

ORACLE Enterprise Manager Help Logout

Database: [ord.us.oracle.com](#) > [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://144.25.8.226:5500/em/console/database/instance/schr/job?fromPage=scheduledEvent=do\\_create&target=ord.us.oracle.com&type](http://144.25.8.226:5500/em/console/database/instance/schr/job?fromPage=scheduledEvent=do_create&target=ord.us.oracle.com&type) Internet

4. 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

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/jobs?sname=HR&pageName=scheduled&event=create\\_ok&sname=ALTER\\_IND001&target=ord.us.oracle.com](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?sname=HR&pageName=scheduled&event=create_ok&sname=ALTER_IND001&target=ord.us.oracle.com) Go Links

ORACLE  
Enterprise Manager

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

**Confirmation**  
Job HR.ALTER\_IND001 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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[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) Internet

5. You see the job **ALTER\_IND001** 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](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

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)
ALTER_IND%001	HR	SUCCESS	Sep 15, 2003 12:36:46 PM -07:00	0.0

Scheduled Running Disabled Run History

Help | Logout

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Address: [http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&sname=ALTER\\_IND%001&target=ord.us.oracle.co](http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&sname=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\_IND001 - Microsoft Internet Explorer

Address: http://144.25.8.226:5500/em/console/database/instance/schr/j?job?sname=HR&event=view&oname=ALTER\_IND001&target=ord.us.oracle.com&type=oracle\_database&from=

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

**View Job: HR.ALTER\_IND001** [Edit] [OK]

General	Schedule	Options
Name: <b>ALTER_IND001</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
<input type="checkbox"/>	100	01-15-2004 12:26:16 PM	SUCCESS	

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

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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:

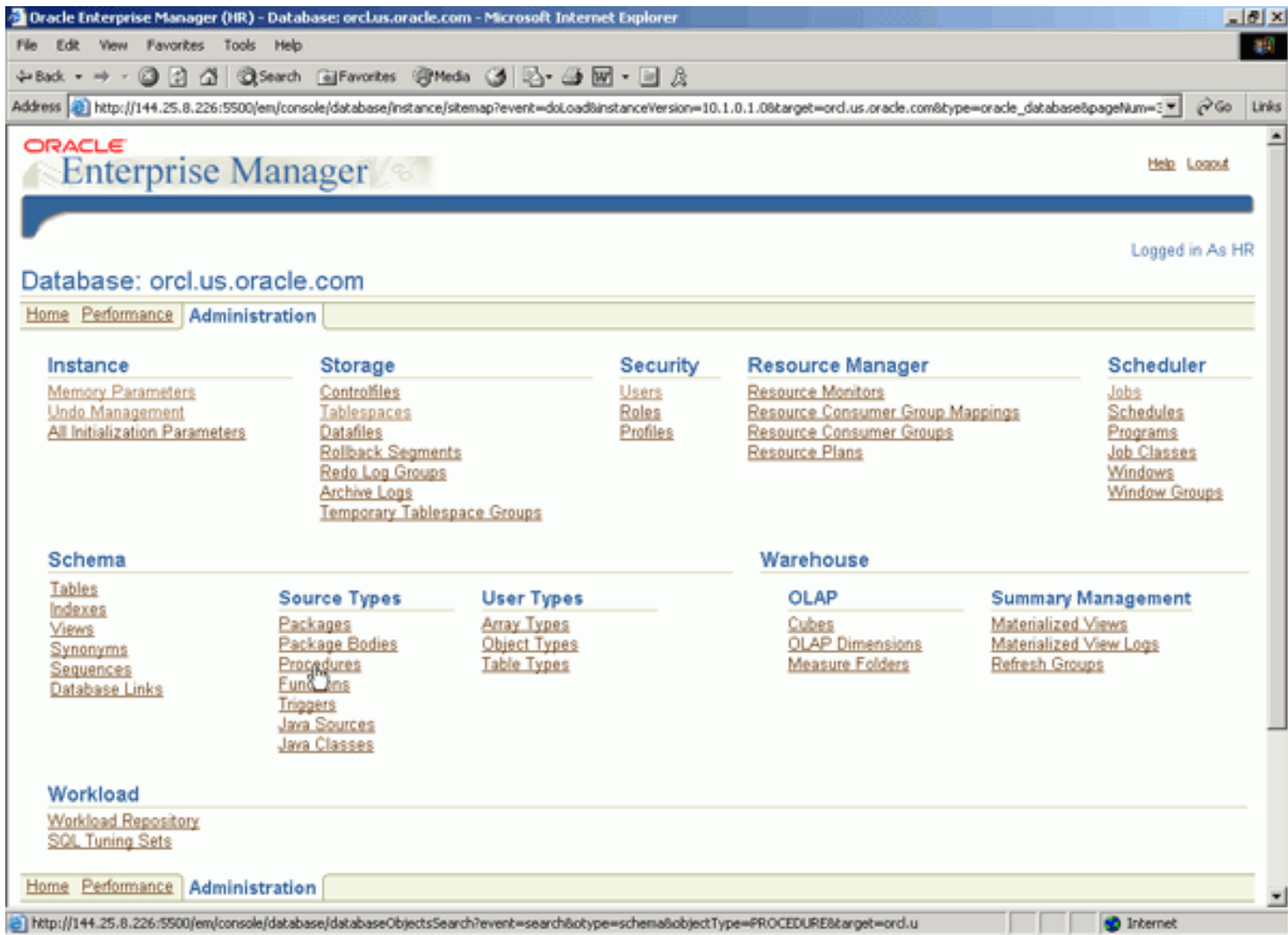
- ☒ [Creating a Procedure](#)
- ☒ [Create a Job that uses the PL/SQL Procedure](#)

## Creating a Procedure

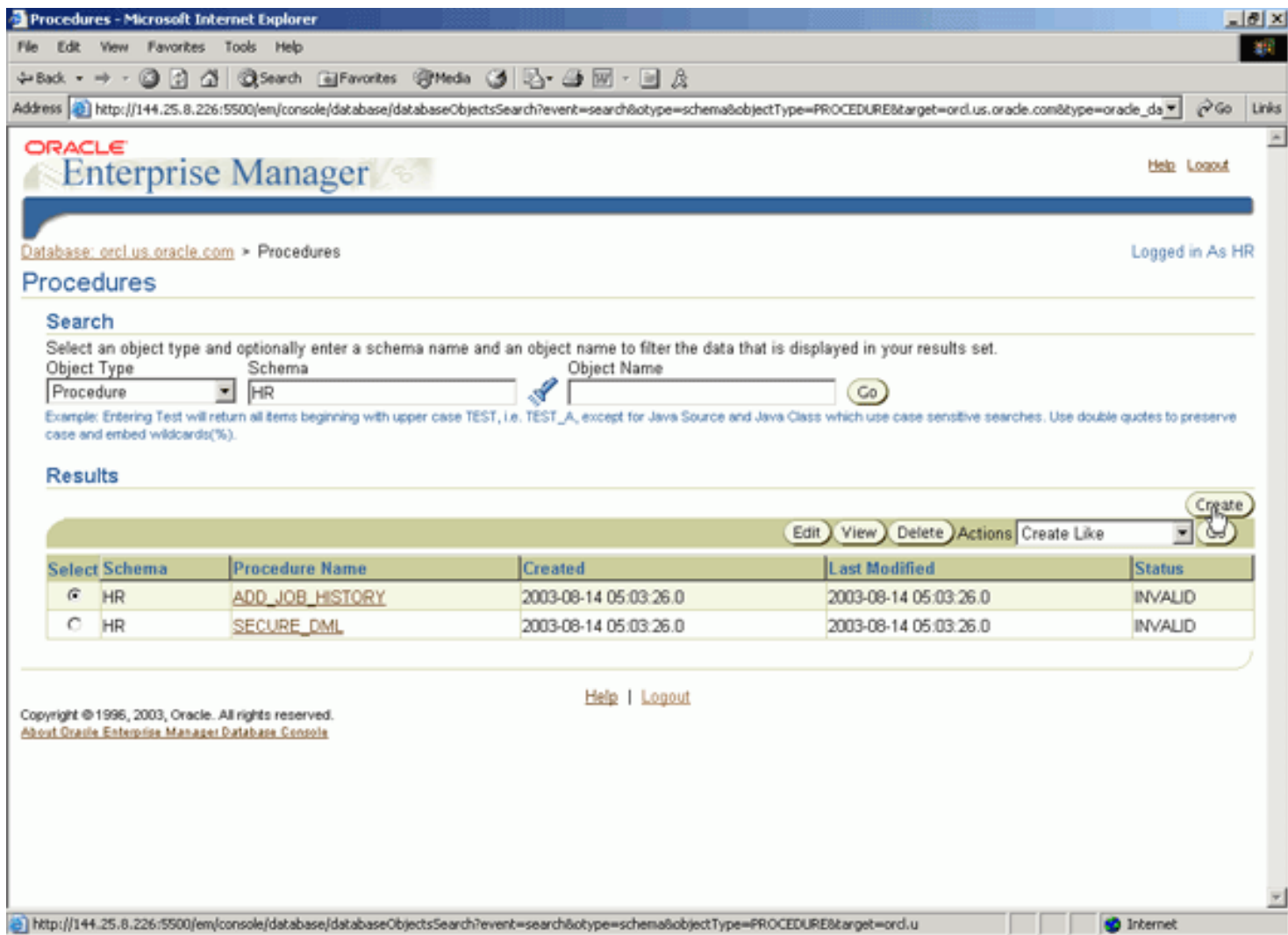
[Back to List](#)

Perform the following:

1. Select the **Procedures** link.



2. Click **Create**.



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

Name: **coalesce\_indx001**

Schema: **HR**

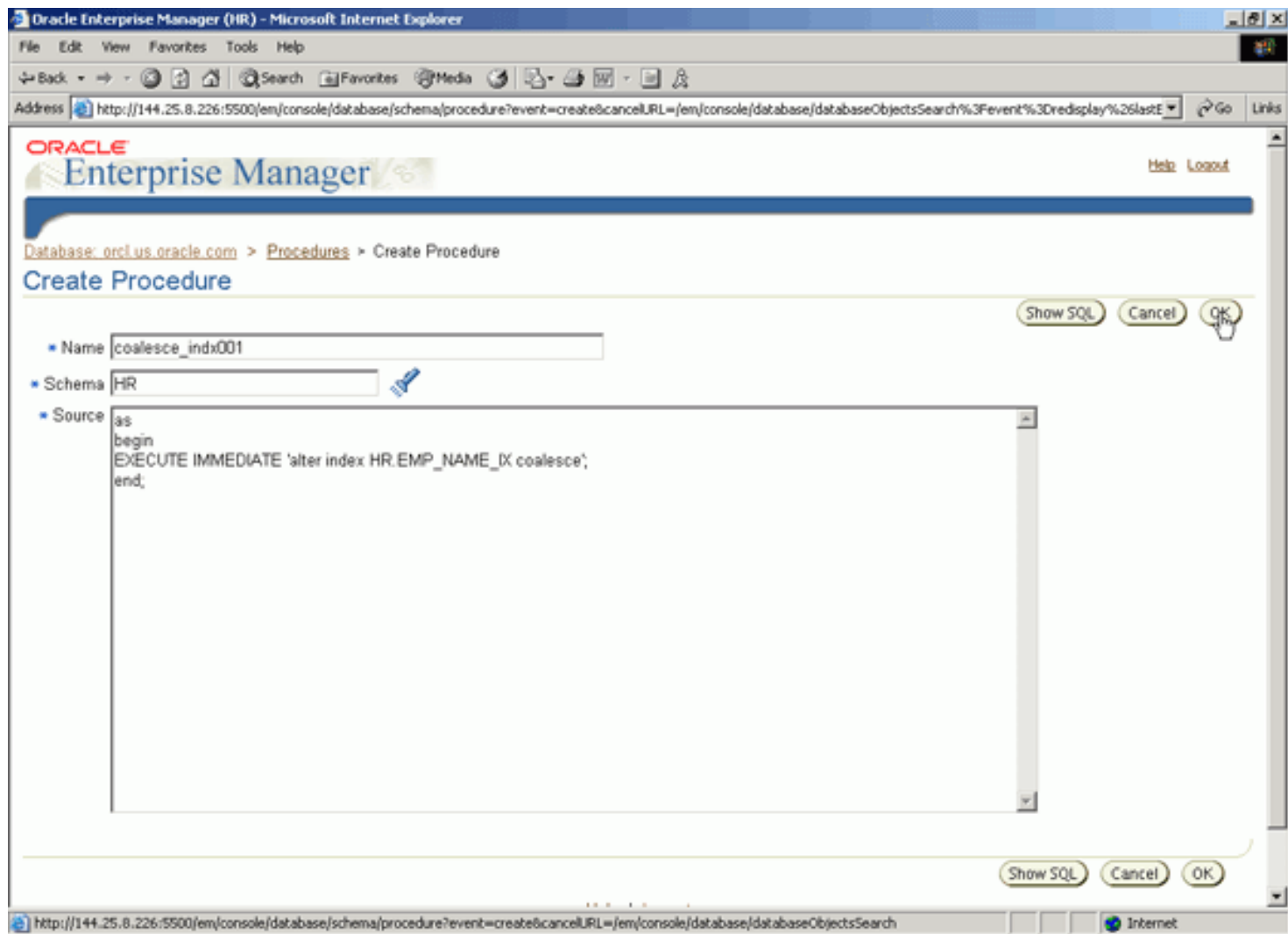
Source:

**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 a Microsoft Internet Explorer browser. The address bar displays the URL: `http://144.25.8.226:5500/em/console/database/databaseObjectsSearch?event=redisplay&lastEvent=create&target=ord.us.oracle.com&type=oracle_database&createOK=true`. The page title is "Procedures - Microsoft Internet Explorer".

The Oracle Enterprise Manager logo is at the top left, with "Help" and "Logout" links at the top right. Below the logo, the text "Database: ord.us.oracle.com > Procedures" is displayed. On the right, it says "Logged in As HR".

An "Update Message" box states: "Procedure HR.COALESCE\_IND001 has been created successfully".

The "Procedures" section includes a search area with the following text: "Select an object type and optionally enter a schema name and an object name to filter the data that is displayed in your results set." The search criteria are: Object Type: "Procedure", Schema: "HR", and Object Name: (empty). A "Go" button is next to the Object Name field. Below the search area, an example text reads: "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(%)." Below the search area, there is a "Results" section with a table of procedures.

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 "Help | Logout" link and a copyright notice: "Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager Database Controls". The browser's status bar at the bottom shows the URL: `http://144.25.8.226:5500/em/console/database/home?event=doLoad&pageNum=3`.

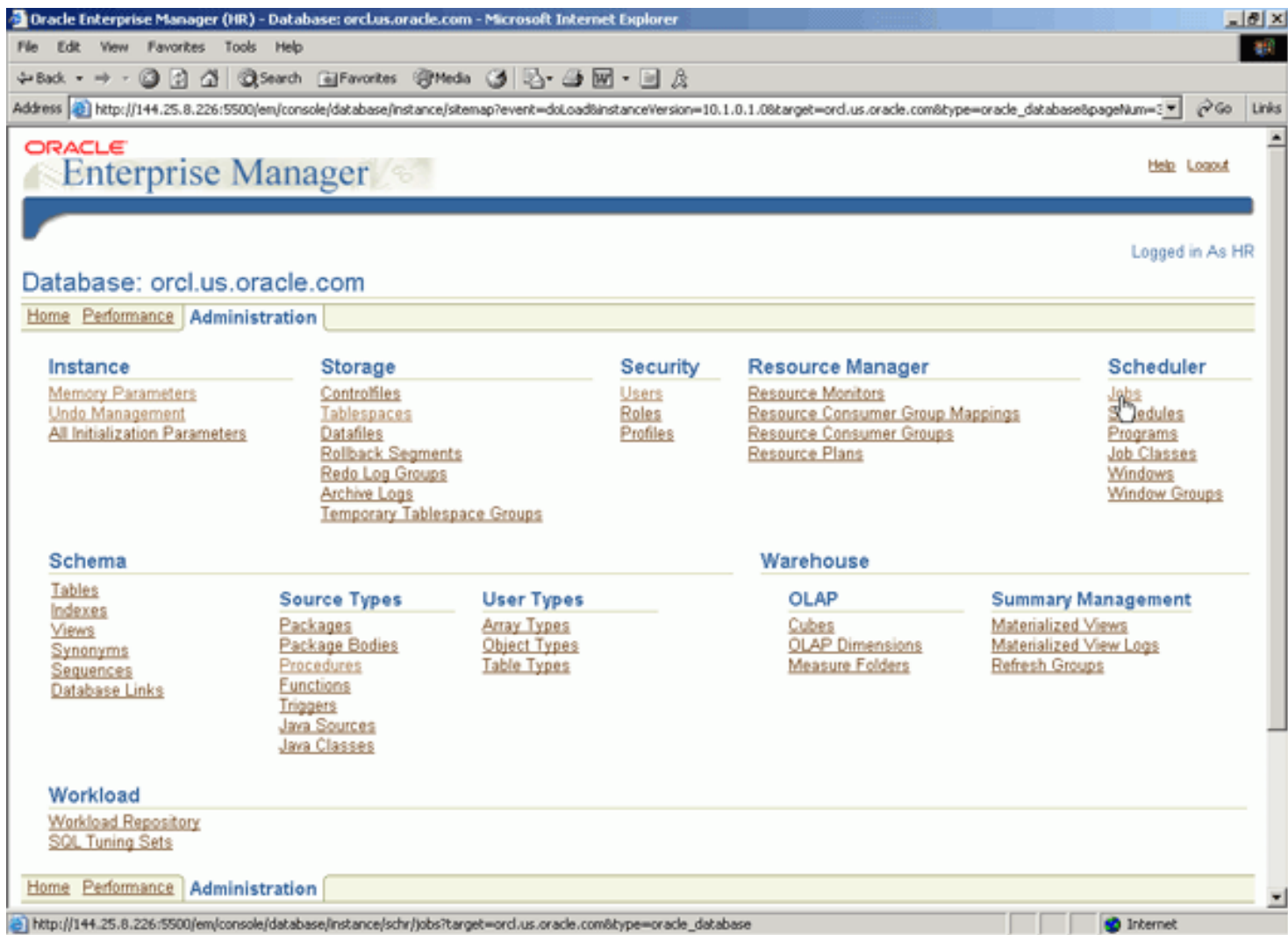
Create a Job that uses the PL/SQL Procedure

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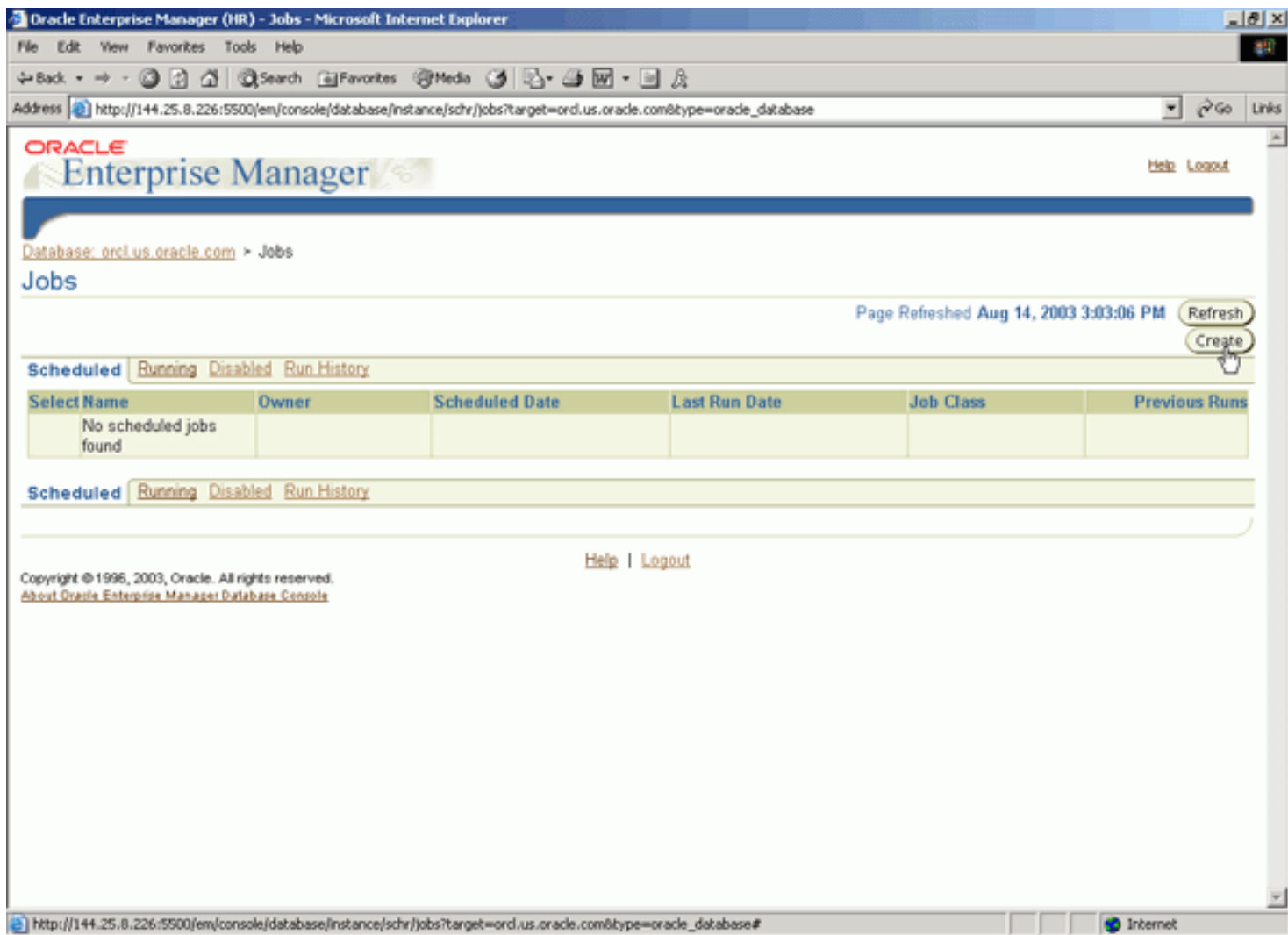
Now you can create the job. Perform the following:



1. Select the **Jobs** link.



2. Click **Create**.



- 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

File Edit View Favorites Tools Help

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

ORACLE Enterprise Manager Help Logout

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

[http://144.25.8.226:5500/em/console/database/instance/schr/job?fromPage=scheduledEvent=do\\_create&target=ord.us.oracle.com&type](http://144.25.8.226:5500/em/console/database/instance/schr/job?fromPage=scheduledEvent=do_create&target=ord.us.oracle.com&type) Internet

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

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


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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

## Select Command Option

Choose an existing program or specify an in-line program for execution. Program offers code re-usability and performance benefits over an in-line program.

☐ Program Name  

☐ In-line Program: PL/SQL

☒ In-line Program: Stored Procedure  

☐ In-line Program: Executable

[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

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

### 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

### Results

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

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

7. Click **OK**.

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

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print View Source

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

## Select Command Option

Choose an existing program or specify an in-line program for execution. Program offers code re-usability and performance benefits over an in-line program.

☐ Program Name

☐ In-line Program: PL/SQL

☒ In-line Program: Stored Procedure

☐ In-line Program: Executable

[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. Select the **Schedule** tab.

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

File Edit View Favorites Tools Help

Address http://144.25.8.226:5500/em/console/database/instance/schr/job?pageName=jobCommand&state=create&oname=&sname=&program=&cmdType=3&proc=HR.COALESCE\_IN

Oracle Enterprise Manager Help Logout

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

## Create Job

Show SQL Cancel OK

**General** Schedule Options

Name ALTER\_INDX\_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   
 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 **Stored Procedure**   
 Change Command Type

Stored Procedure HR.COALESCE\_INDX001

**General** Schedule Options

http://144.25.8.226:5500/em/console/database/instance/schr/job?pageName=jobCommand&state=create&oname=&sname=&program=&cmdType=

Internet

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



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

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print View Source

Address 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

Database: ord.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=ord.us.oracle.com&type=oracle\_database# Internet

Click the **Disabled** tab.

10.

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?sname=HR&pageName=scheduled&event=create\\_ok&sname=ALTER\\_INDX\\_PROC001&target=ord.us.oracle.com](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?sname=HR&pageName=scheduled&event=create_ok&sname=ALTER_INDX_PROC001&target=ord.us.oracle.com) Go Links

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

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[About Oracle Enterprise Manager Database Controls](#)

Help | Logout

[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

Select **ALTER\_INDX\_PROC001** .

11.

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

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print View Source

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

**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 type="radio"/>	<a href="#">ALTER_INDX001</a>	HR	SUCCESS	Aug 14, 2003 3:06:22 PM -07:00	<a href="#">DEFAULT_JOB_CLASS</a>	1
<input type="radio"/>	<a href="#">ALTER_INDX_PROC001</a>	HR	DISABLED	n/a	<a href="#">DEFAULT_JOB_CLASS</a>	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\\_INDX\\_PROC001&event=edit&state=edit&target=o](http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&oname=ALTER_INDX_PROC001&event=edit&state=edit&target=o) Internet

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

12.

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

**General** Schedule Options

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   
 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: Stored Procedure   
 Change Command Type

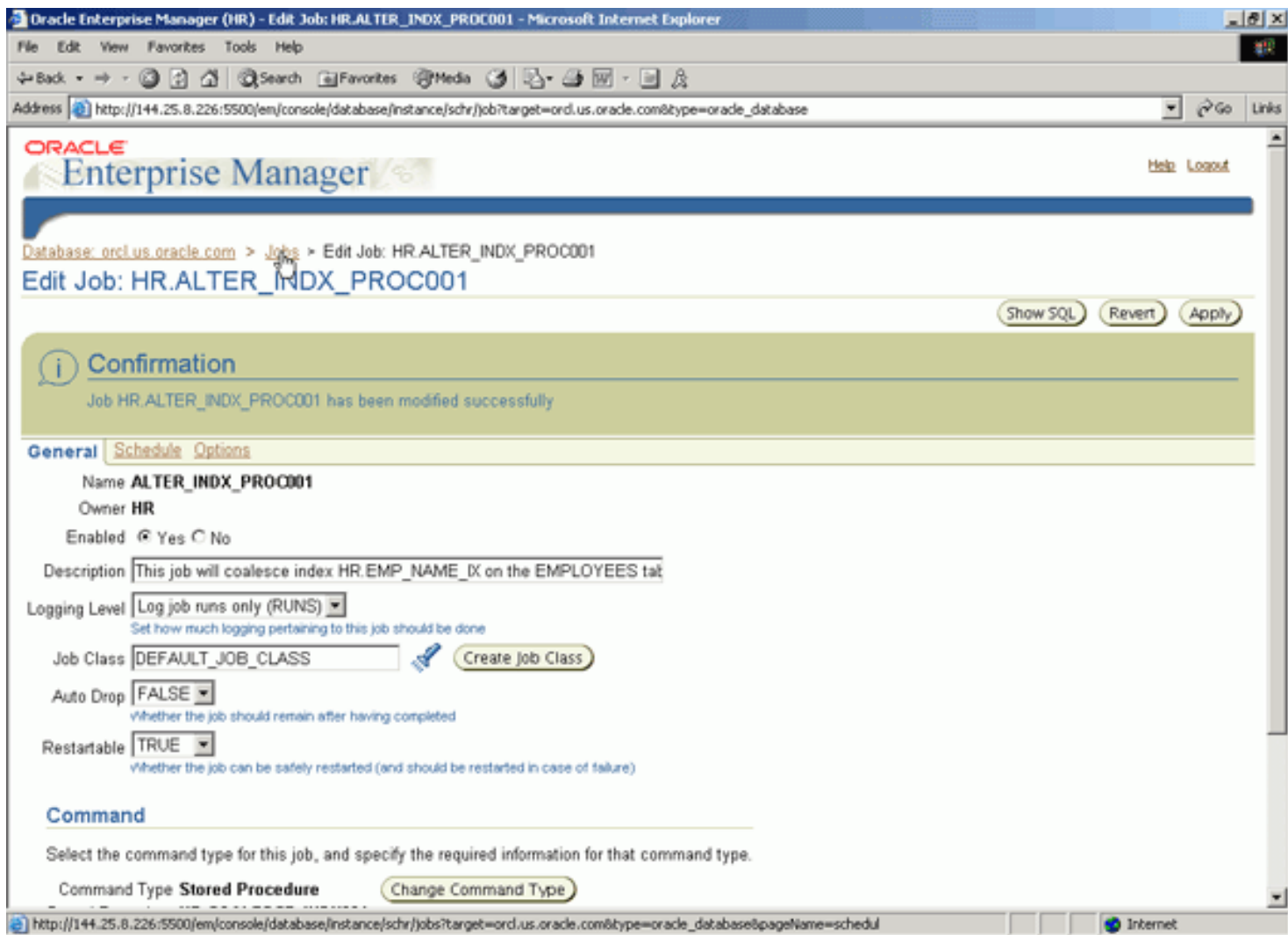
Stored Procedure: HR.COALESCE\_INDEX001

General Schedule Options

Show SQL Revert Apply

Select the **Jobs** breadcrumb.

13.



The screenshot shows the Oracle Enterprise Manager (HR) interface in a Microsoft Internet Explorer browser. The browser's 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 (HR) - Edit Job: HR.ALTER\_INDEX\_PROC001". The breadcrumb navigation shows "Database: ord.us.oracle.com > Jobs > Edit Job: HR.ALTER\_INDEX\_PROC001". The main heading is "Edit Job: HR.ALTER\_INDEX\_PROC001". There are buttons for "Show SQL", "Revert", and "Apply". A confirmation message states: "Job HR.ALTER\_INDEX\_PROC001 has been modified successfully". Below this, there are tabs for "General", "Schedule", and "Options". The "General" tab is active, showing the following details: Name: ALTER\_INDEX\_PROC001, Owner: HR, Enabled: Yes (radio button selected), 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" (with a "Create Job Class" button), Auto Drop: "FALSE", and Restartable: "TRUE". Below the "General" tab is the "Command" section, which includes the instruction: "Select the command type for this job, and specify the required information for that command type." The "Command Type" is set to "Stored Procedure", with a "Change Command Type" button.

Click the **Run History** tab.

14.

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=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) Go Links

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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[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

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)

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_INDXX001</a>	HR	SUCCESS	Aug 14, 2003 3:20:01 PM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_INDXX001</a>	HR	SUCCESS	Aug 14, 2003 3:06:22 PM -07:00	0.0

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

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

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

Address: [http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&sname=ALTER\\_INDXX001&target=ord.us.orac](http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&event=view&sname=ALTER_INDXX001&target=ord.us.orac)

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

Database: orcl.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]

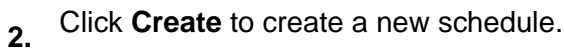
Select	Log ID	Log Date	Operation	Status
<input checked="" type="checkbox"/>	25	Aug 14, 2003 3:20:01 PM -07:00	SUCCESS	

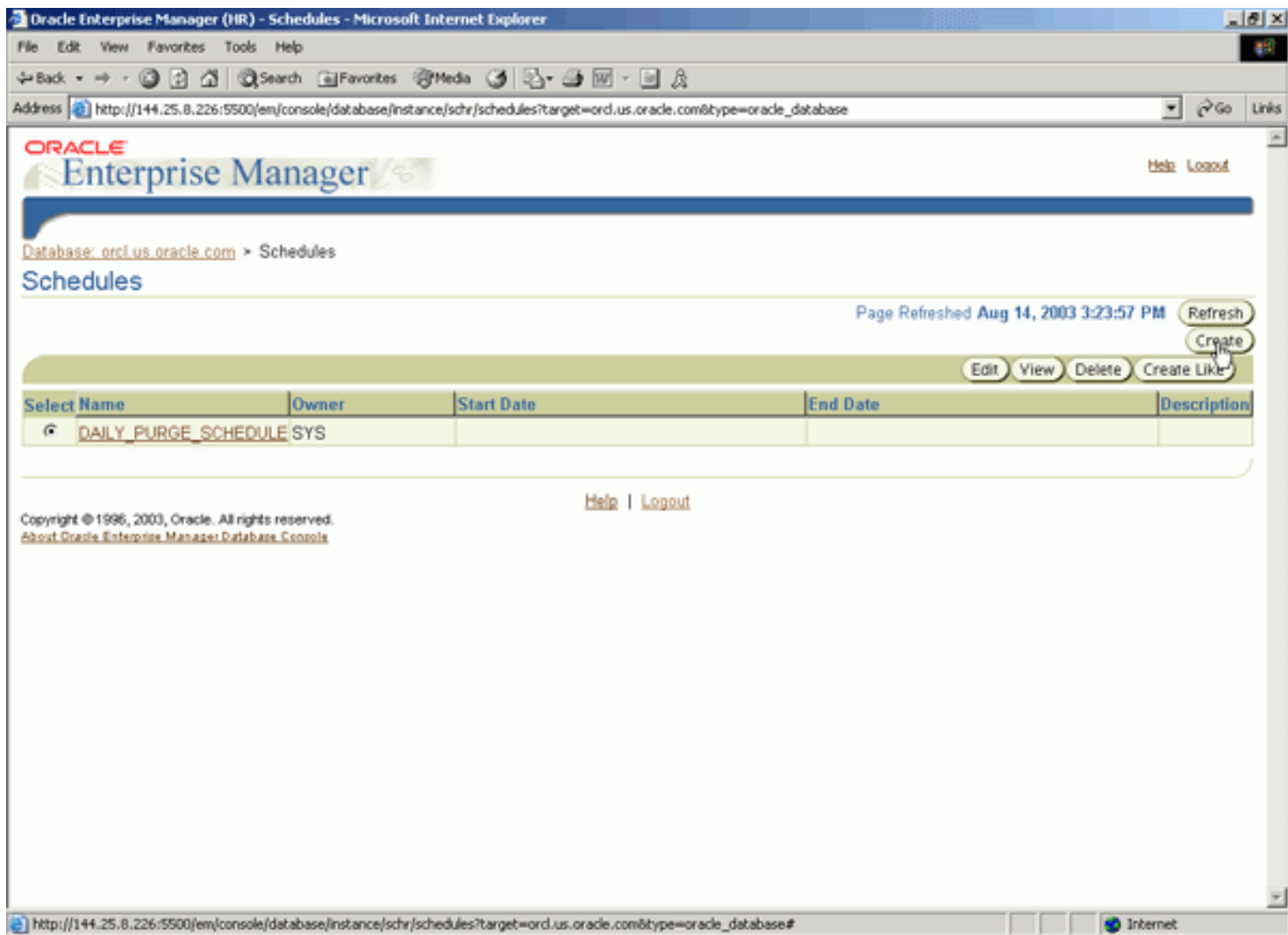
## Creating a Saved Schedule

[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:







- 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

Back Forward Stop Search Favorites Media Print View Source

Address http://144.25.8.226:5500/em/console/database/instance/schr/schedule?event=do\_create&target=ord.us.oracle.com&type=oracle\_database Go Links

ORACLE  
Enterprise Manager Help Logout

Database: ord.us.oracle.com > Schedules > Create Schedule

### Create Schedule

Show SQL Cancel OK

Name Sched001

Owner HR

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

#### Schedule

Time Zone GMT-7:00

#### Start

☐ Immediately

☒ Later

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

Time 11:00:00 AM PM

#### Repeat

Frequency 1 Days

#### Repeat Until

☐ Indefinite

☒ Custom

Date Aug-14-2004  
(example: Dec-12-2002)

Time 11:00:00 AM PM

http://144.25.8.226:5500/em/console/database/instance/schr/schedule?event=do\_create&target=ord.us.oracle.com&type=oracle\_datab Internet

4. Click the **Database** breadcrumb.

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

File Edit View Favorites Tools Help

Address [http://144.25.8.226:5500/em/console/database/instance/schr/schedules?sname=HR&event=create\\_ok&oname=SCHE0001&target=ord.us.oracle.com&type=oracle\\_database](http://144.25.8.226:5500/em/console/database/instance/schr/schedules?sname=HR&event=create_ok&oname=SCHE0001&target=ord.us.oracle.com&type=oracle_database) Go Links

ORACLE Enterprise Manager Help Logout

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

**Confirmation**  
Schedule HR.SCHE0001 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"/>	DAILY_PURGE_SCHEDULE	SYS			
<input type="radio"/>	SCHE0001	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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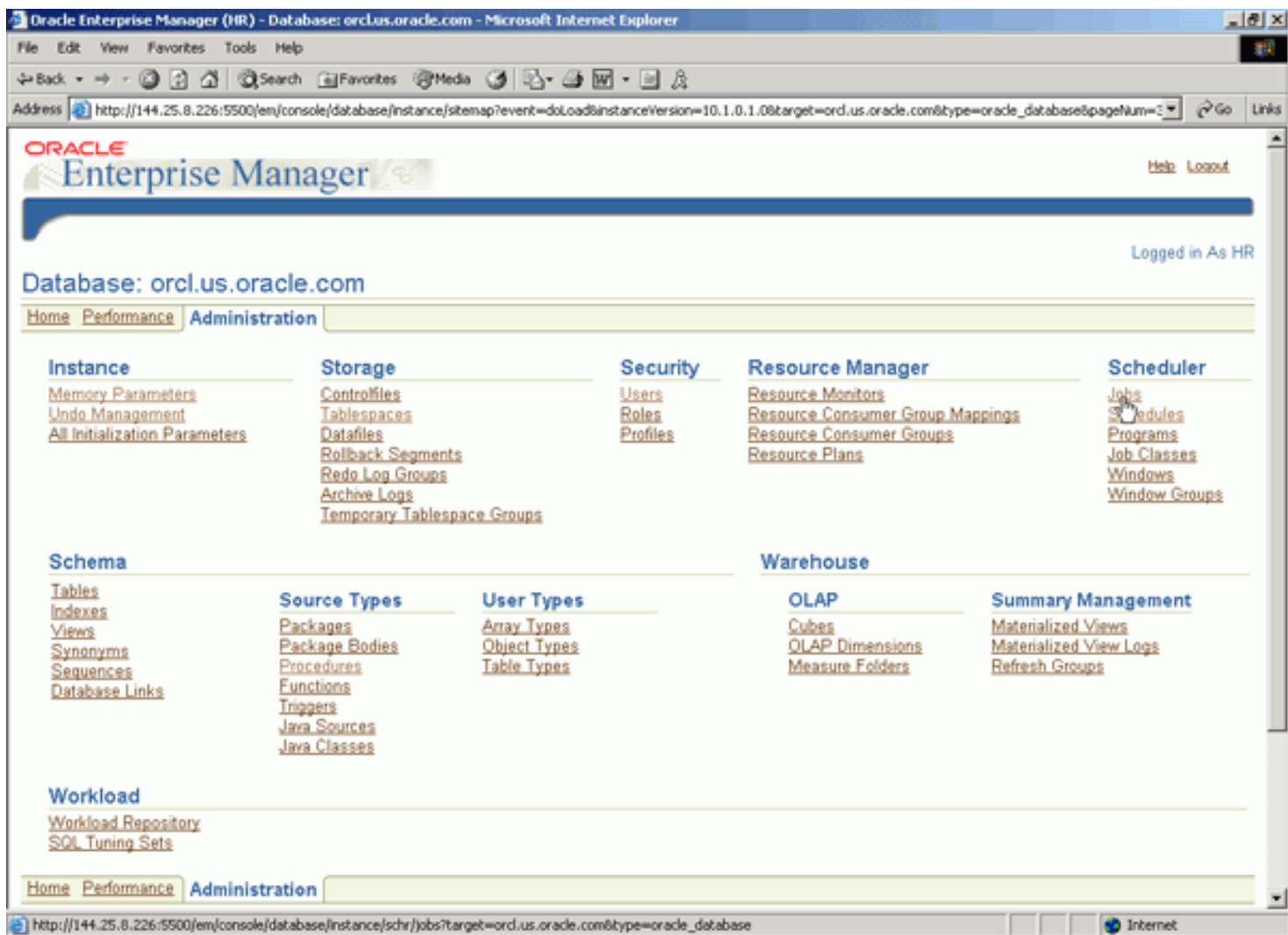
<http://144.25.8.226:5500/em/console/database/home?event=doLoad&pageNum=3> Internet

## 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.



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

### 3. Select **ALTER\_INDXX001** .

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

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

Database: [ord.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"/>	<a href="#">ALTER_INDX001</a>	HR	SUCCESS	Aug 14, 2003 3:06:22 PM -07:00	<a href="#">DEFAULT_JOB_CLASS</a>	1
<input type="radio"/>	<a href="#">ALTER_INDX_PROC001</a>	HR	DISABLED	n/a	<a href="#">DEFAULT_JOB_CLASS</a>	0

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

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

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Address: [http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&oname=ALTER\\_INDX001&event=edit&state=edit&target=ord.us](http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&oname=ALTER_INDX001&event=edit&state=edit&target=ord.us)

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

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

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print View Source

Address http://144.25.8.226:5500/em/console/database/instance/schr/job?sname=HR&oname=ALTER\_INDX001&event=edit&state=edit&target=orcl.us.oracle.com&type=oracle\_data Go Links

ORACLE Enterprise Manager Help Logout

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

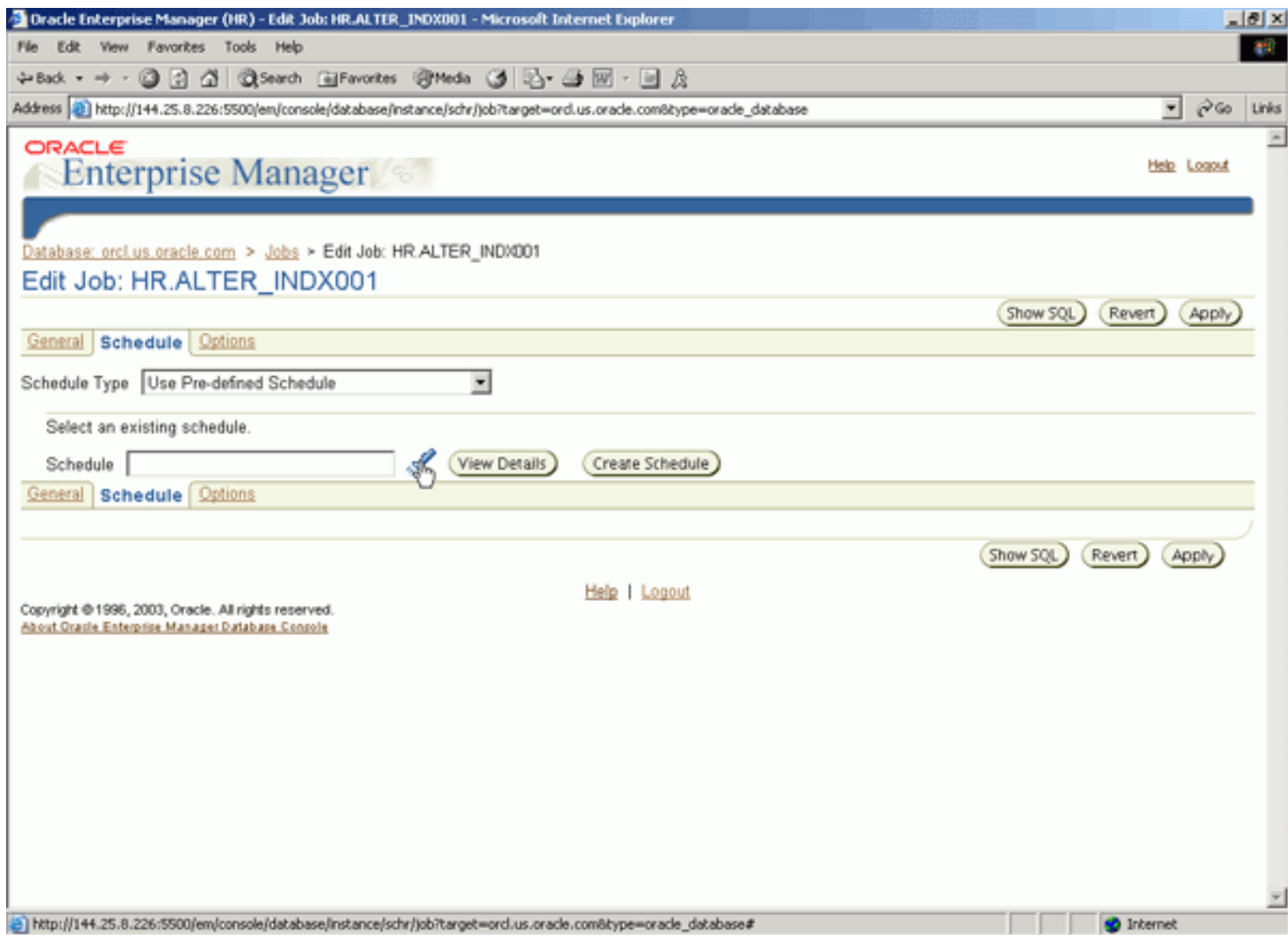
EXECUTE IMMEDIATE 'alter index HR.EMP\_NAME\_IX coalesce';

PL/SQL

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

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





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

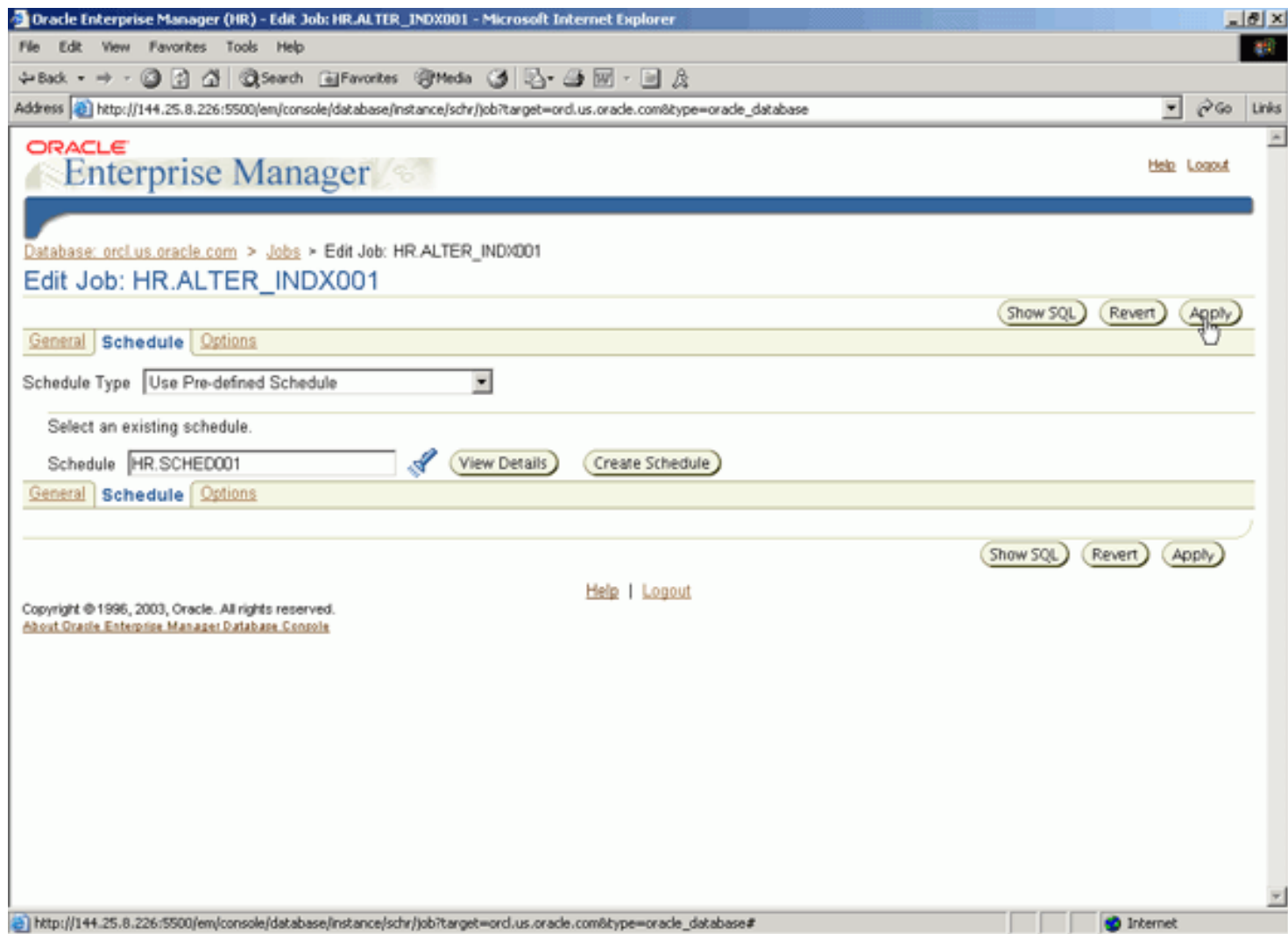
### Results

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

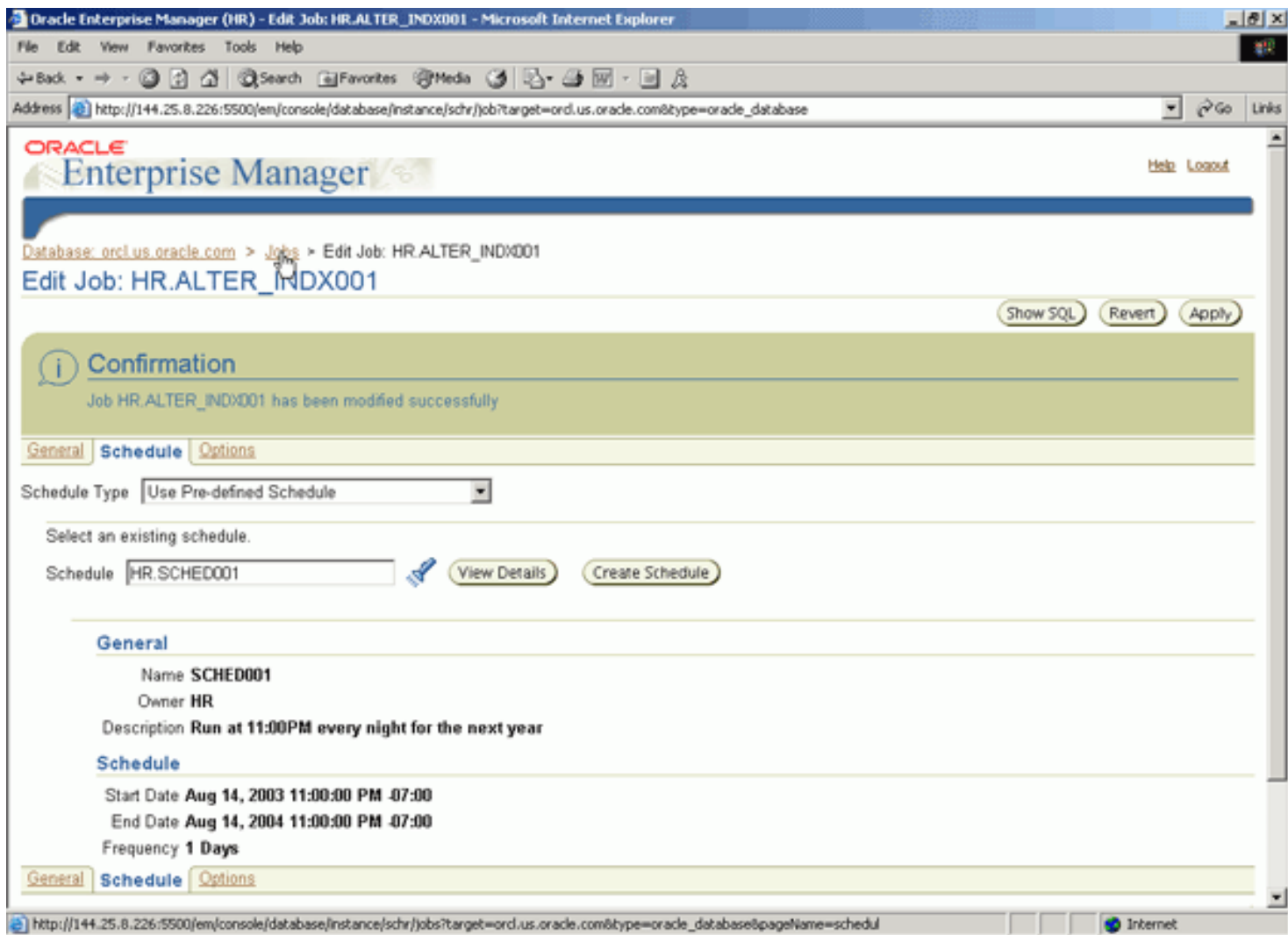
Cancel Select

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

7. Click **Apply**.



8. Click the **Jobs** breadcrumb.



9. Your job should appear. You may need to click on the **Scheduled** tab first and click **Refresh** . If your 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

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: [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 checked="" type="radio"/>	<a href="#">ALTER_IND001</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](#)

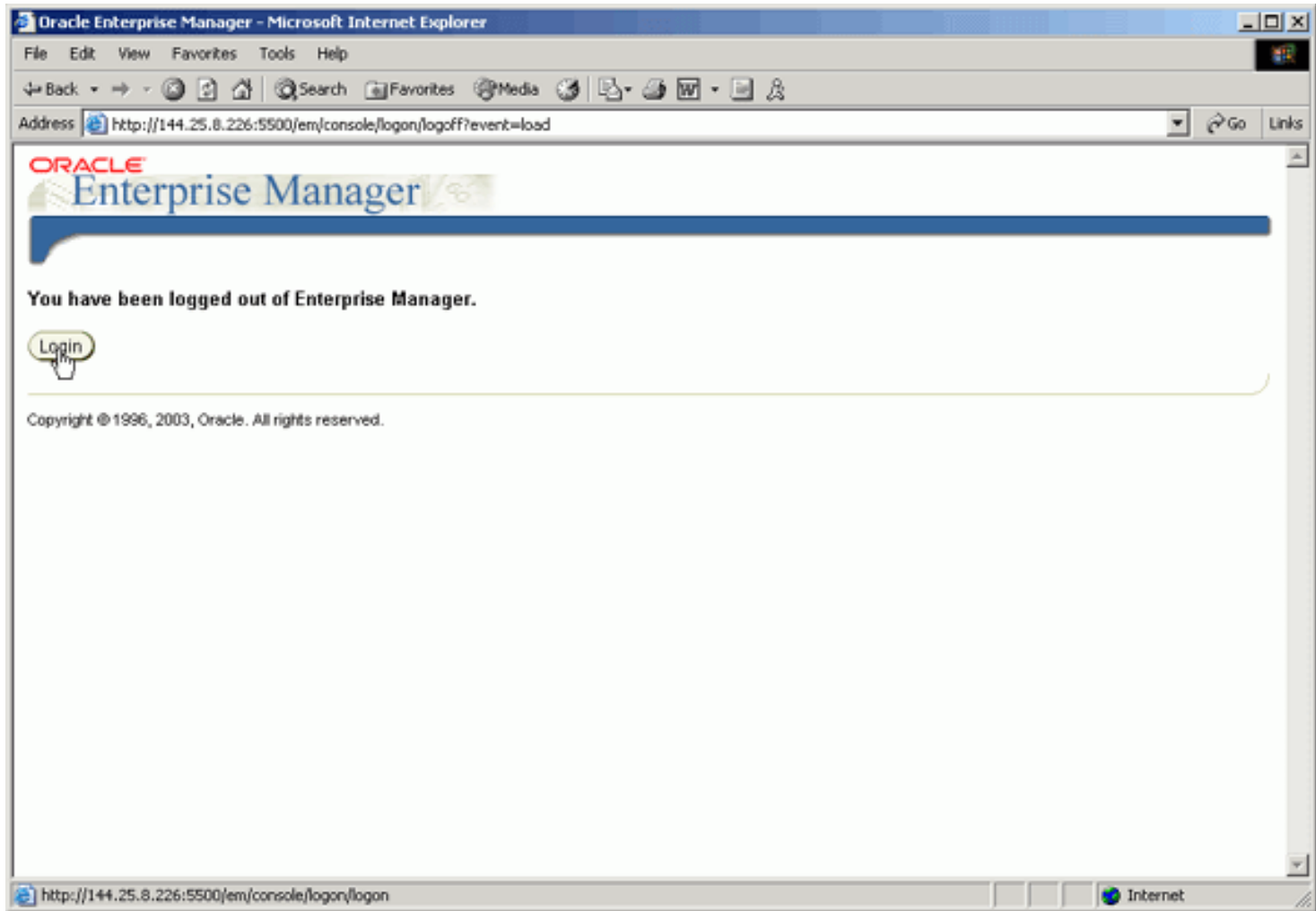
[Help](#) | [Logout](#)

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

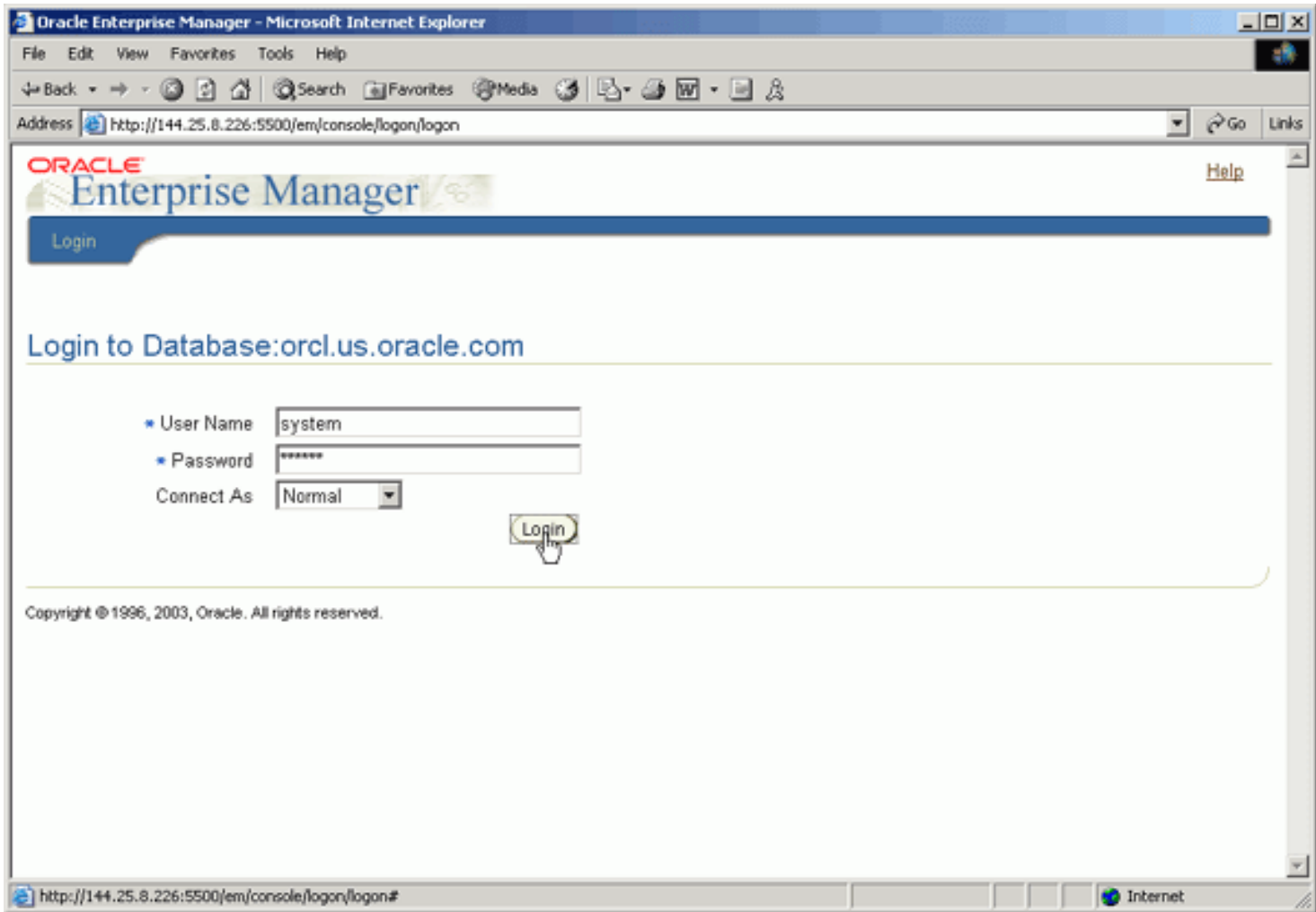
Click **Login** .

10.



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

11.

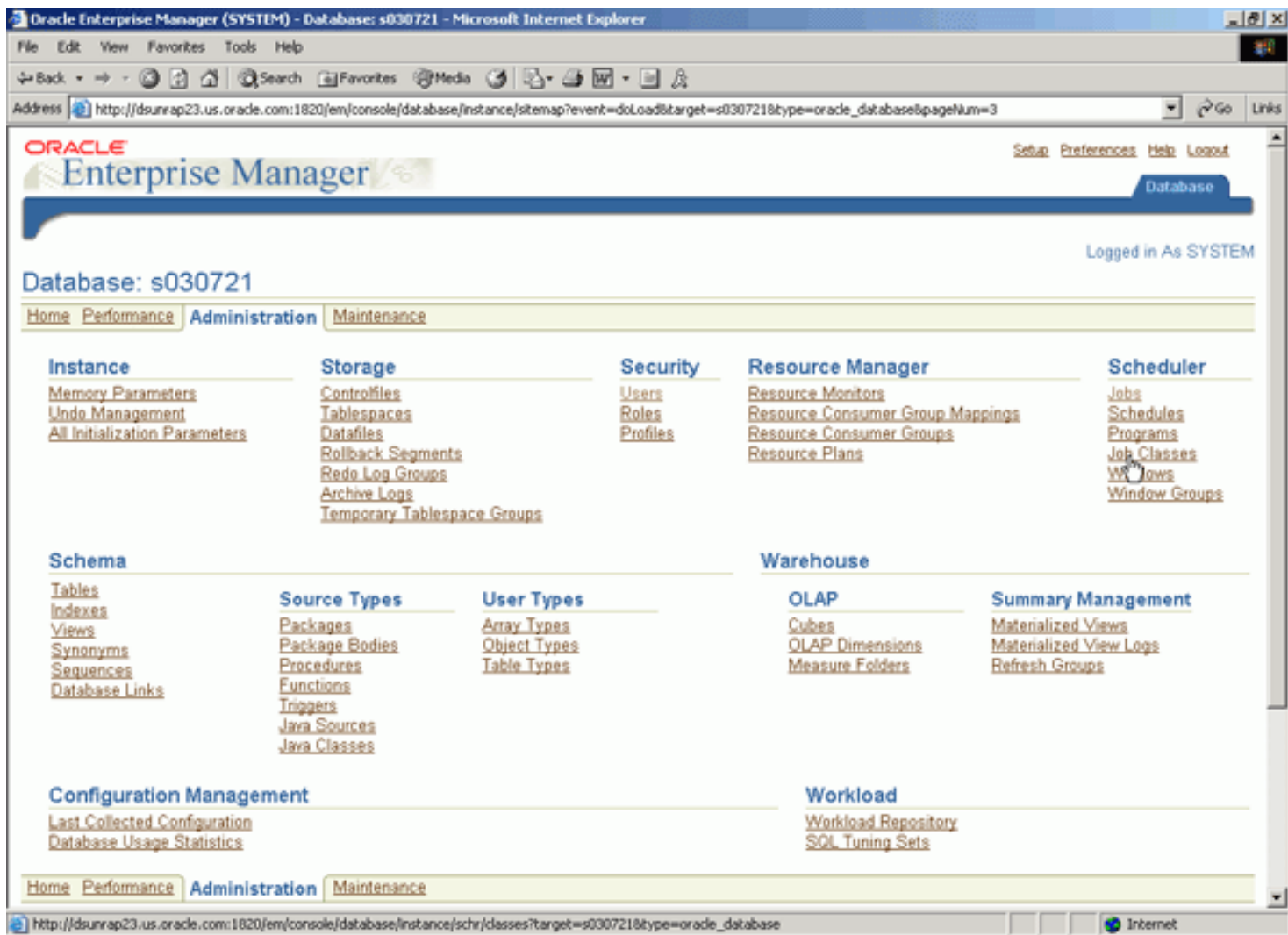


## Creating a Job Class

[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**.



2. Click **Create**.



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

Address: [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)

Database: s030721 > Job Classes

Job Classes

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.

Page Refreshed Aug 1, 2003 10:07:35 AM Refresh

Buttons: 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		

Database | Setup | Preferences | Help | Logout

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About Oracle Enterprise Manager Database Console

- 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

Back Forward Stop Search Favorites Media Print View Source

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) Go Links

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 Console](#)

[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

Back Forward Stop Search Favorites Media Print View Source

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) Go Links

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 Console](#)

[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

6. 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](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**

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.

Page Refreshed Aug 1, 2003 10:11:18 AM [Refresh](#)

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

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		
<input type="radio"/>	<a href="#">COMPUTE_CLASS001</a>	RUNS	7	LOW_GROUP		This job class contains all jobs related to the administration of the database.

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

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

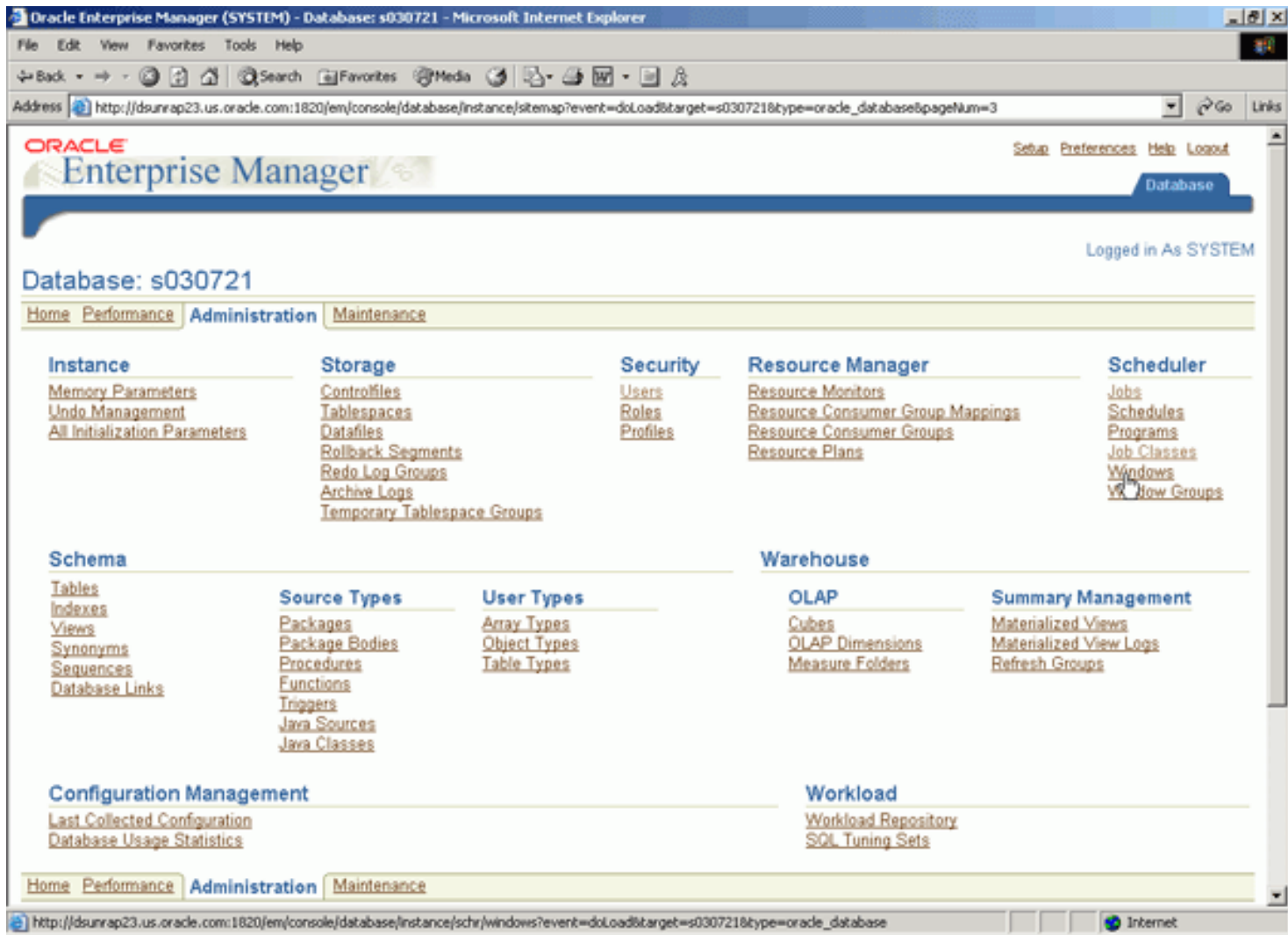
```
connect system/<password>
grant execute on sys.compute_class001 to HR;
```

## 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**.



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)

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

## Windows

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

Buttons: 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 Console](#)

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#)

- 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/data> Go Links

ORACLE Enterprise Manager Database

Database: s030721 > Windows > Create Window

Create Window

Show SQL Cancel OK

**General**

Name

Resource Plan  View Resource Plan Create 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**

☒ Indefinite

**Repeat Until**

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

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



Oracle Enterprise Manager - Create Resource Plan - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://dsunrap23.us.oracle.com:1820/em/console/database/instance/rsrcln?event=create&cancelURL=/em/console/database/instance/schr/window%3Fevent%3Dreload%26t> Go Links

ORACLE Enterprise Manager Database

Database: s030721 > Resource Plans > Create Resource Plan

## Create Resource Plan

Show SQL Cancel OK

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

Modify

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

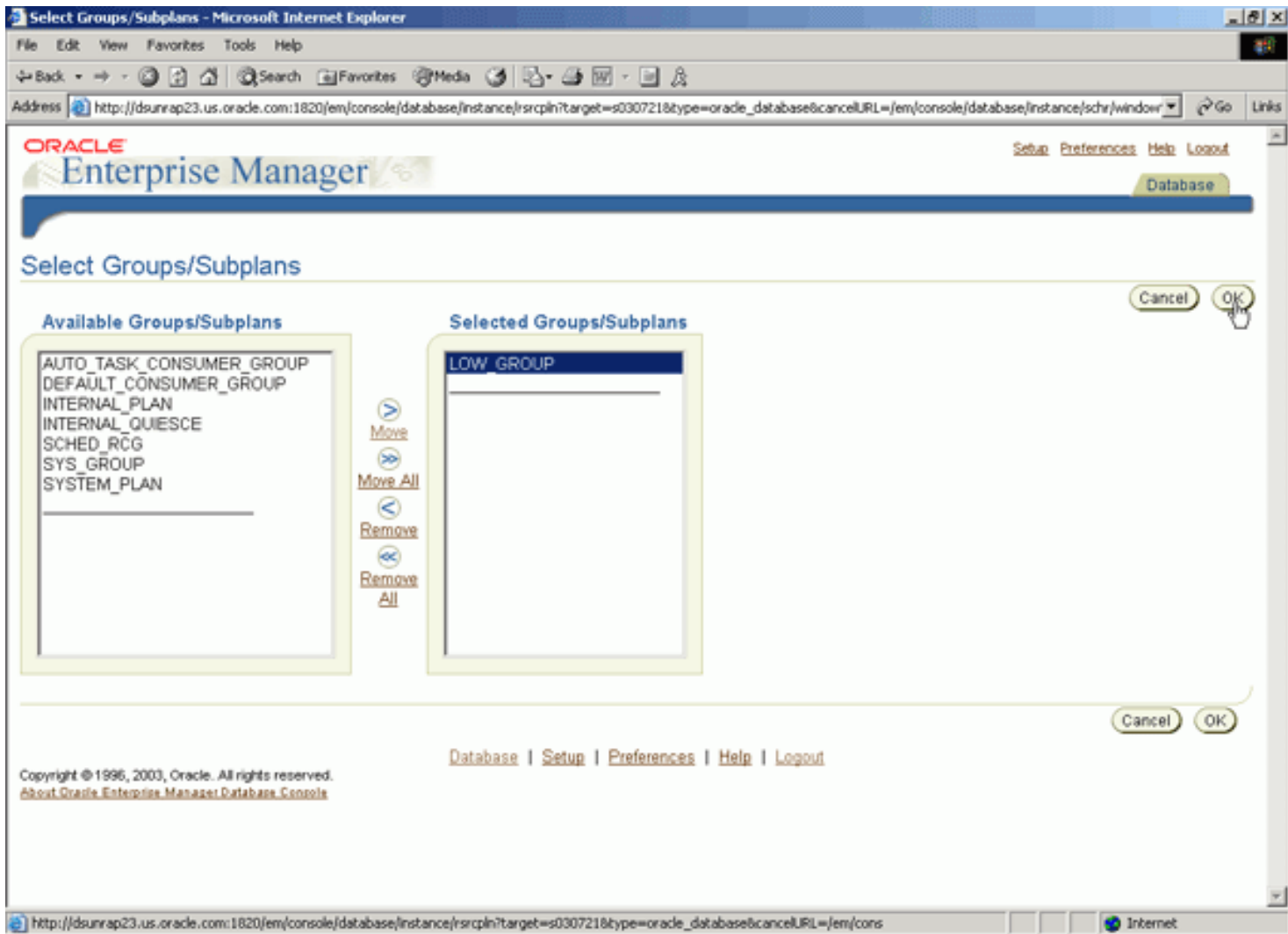
Show SQL Cancel OK

Database | Setup | Preferences | Help | Logout

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<http://dsunrap23.us.oracle.com:1820/em/console/database/instance/rsrcln?event=create&cancelURL=/em/console/database/instance/s> Internet

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

File Edit View Favorites Tools Help

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

ORACLE Enterprise Manager

Setup Preferences Help Logout

Database

Database: s030721 > Resource Plans > Create Resource Plan

### Create Resource Plan

Show SQL Cancel OK

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

Plan COMPUTE\_PLAN001

Description

Activate this plan ☐

#### Selected Groups/Subplans

Modify

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

Show SQL Cancel OK

Database | Setup | Preferences | Help | Logout

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

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=s030721&type=oracle\\_database&oname=null&createOK=true](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=reload&target=s030721&type=oracle_database&oname=null&createOK=true) Go Links

## Create Window

Show SQL Cancel **OK**

### General

Name

Resource Plan  View Resource Plan Create 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  Days

#### 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=s030721&type=oracle\\_database&oname=null&createOK=true](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=reload&target=s030721&type=oracle_database&oname=null&createOK=true) Internet

8. 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)

Database: s030721 > Windows

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

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](#)

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## Creating a Job that Belongs to a Job Class

[Back to Topic List](#)

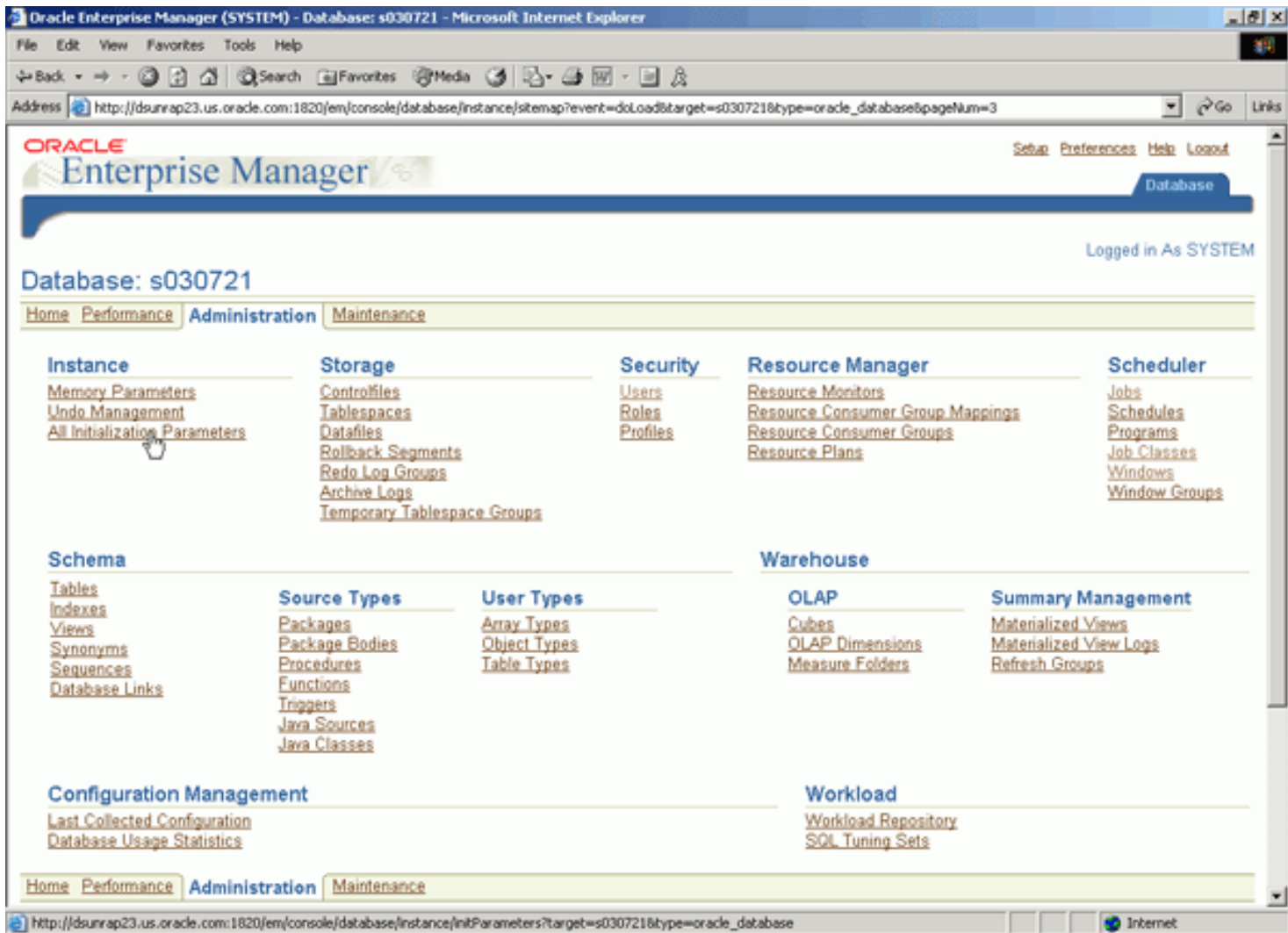
You will now create 2 jobs in different job classes and will show how the CPU is allocated between the two jobs. You will perform the following tasks:

- ☒ [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**.



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

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](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle_database) Go Links

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#](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](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/initParameters?target=s030721&type=oracle_database) Go Links

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

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

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#](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

File Edit View Favorites Tools Help

Address [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) Go Links

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

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

[Back to List](#)

Perform the following:

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

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

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

Database: s030721 > Jobs

Jobs

Page Refreshed Aug 1, 2003 11:13:19 AM

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"/>	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

Scheduled Running Disabled Run History

Create

Database | Setup | Preferences | Help | Logout

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[About Oracle Enterprise Manager Database Console](#)

[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#)

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

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) Go Links

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;
```

[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) Internet

3. Select the **COMPUTE\_CLASS001** 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 type="radio"/>	DEFAULT_JOB_CLASS
<input type="radio"/>	AUTO_TASKS_JOB_CLASS
<input type="radio"/>	ADMIN_CLASS
<input checked="" type="radio"/>	COMPUTE_CLASS001

Cancel Select

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

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

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) Go Links

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

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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) Go Links

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 PM

**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 PM  
(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#](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?target=s030721&type=oracle_database#) Internet

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

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

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pname=scheduled&event=create\\_ok&name=CPU\\_JOB001&target=s030721](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pname=scheduled&event=create_ok&name=CPU_JOB001&target=s030721)

Database: s030721 > Jobs

**Jobs**

Confirmation  
Job SYSTEM.CPU\_JOB001 has been created successfully

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

**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="radio"/>	ALTER_IND001	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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[About Oracle Enterprise Manager Database Controls](#)

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pname=unscheduled&target=s030721&type=oracle\\_data](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?pname=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"/>	JGGGHUGH	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_IDX_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

Edit View Delete Create Like

Scheduled Running Disabled Run History

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

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

File Edit View Favorites Tools Help

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Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&event=create\\_job&oname=CPU\\_JOB001&target=s030721&type=oracle\\_datab...](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&event=create_job&oname=CPU_JOB001&target=s030721&type=oracle_datab...) Go Links

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](#)

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

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

- Click **OK**.

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

File Edit View Favorites Tools Help

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Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&event=create\\_job&oname=CPU\\_JOB001&target=s030721&type=oracle\\_datab...](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&event=create_job&oname=CPU_JOB001&target=s030721&type=oracle_datab...) Go Links

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**

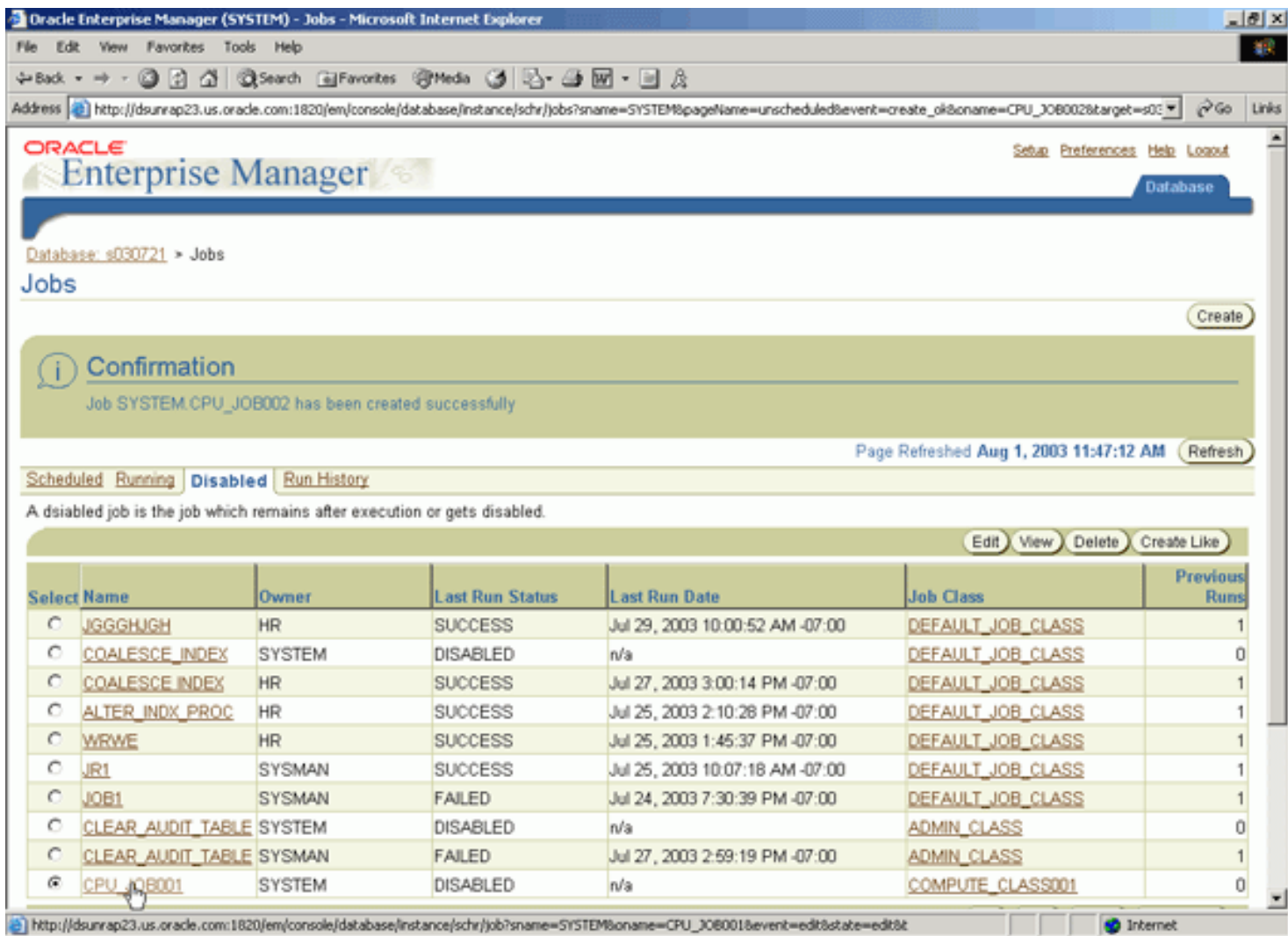
```
declare
i number;
f number;
begin
```

Enable the First Job

[Back to List](#)

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

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



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

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?sname=SYSTEM&pageName=unscheduled&event=create\\_ok&name=CPU\\_JOB002&target=s03](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?sname=SYSTEM&pageName=unscheduled&event=create_ok&name=CPU_JOB002&target=s03)

Database: s030721 > Jobs

Jobs

Confirmation

Job SYSTEM.CPU\_JOB002 has been created successfully

Page Refreshed Aug 1, 2003 11:47:12 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"/>	JGCGHUGH	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

Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&name=CPU\\_JOB001&event=edit&state=edit&t](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/job?sname=SYSTEM&name=CPU_JOB001&event=edit&state=edit&t)

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

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

File Edit View Favorites Tools Help

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Address [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](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) Go Links

ORACLE Enterprise Manager Database

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

Edit Job: SYSTEM.CPU\_JOB001

Show SQL Revert Apply

General Schedule Options

Name CPU\_JOB001

Owner SYSTEM

Enabled ☒ Yes ☐ No

Description This job is a cpu intensive job

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

Job Class COMPUTE\_CLASS001   
 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

```
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

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print View Source

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) Go Links

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](#)

[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=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)

Database

Database: [ord.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_INDXXPROC001	HR	SUCCESS	Sep 15, 2003 12:50:53 PM -07:00	0.0
<input type="radio"/>	ALTER_INDXX001	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=ord.us.oracle.com&type=oracle\\_database&pageN](http://144.25.8.226:5500/em/console/database/instance/sitemap?event=doLoad&target=ord.us.oracle.com&type=oracle_database&pageN)

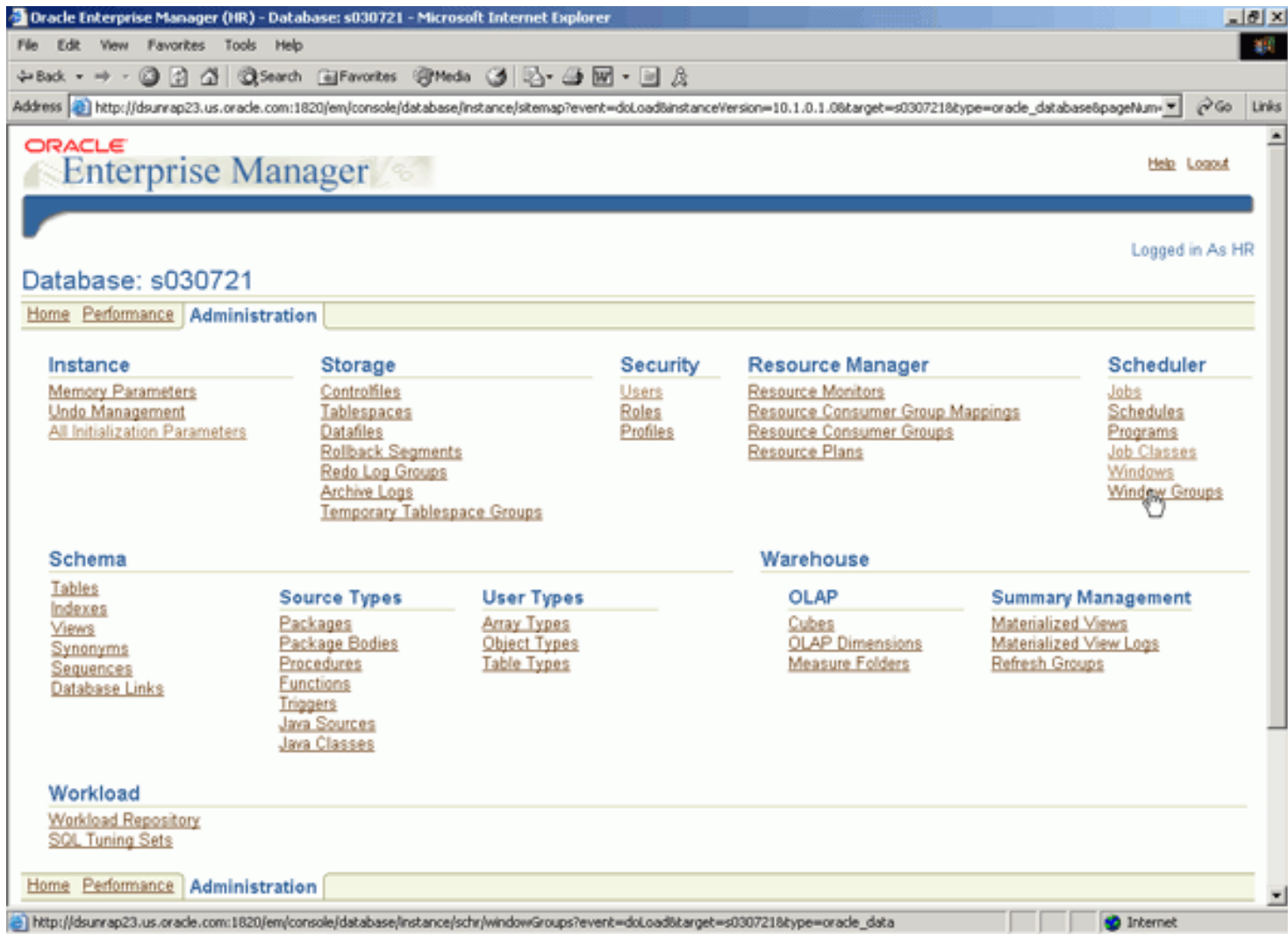
## Creating a Window Group

[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:

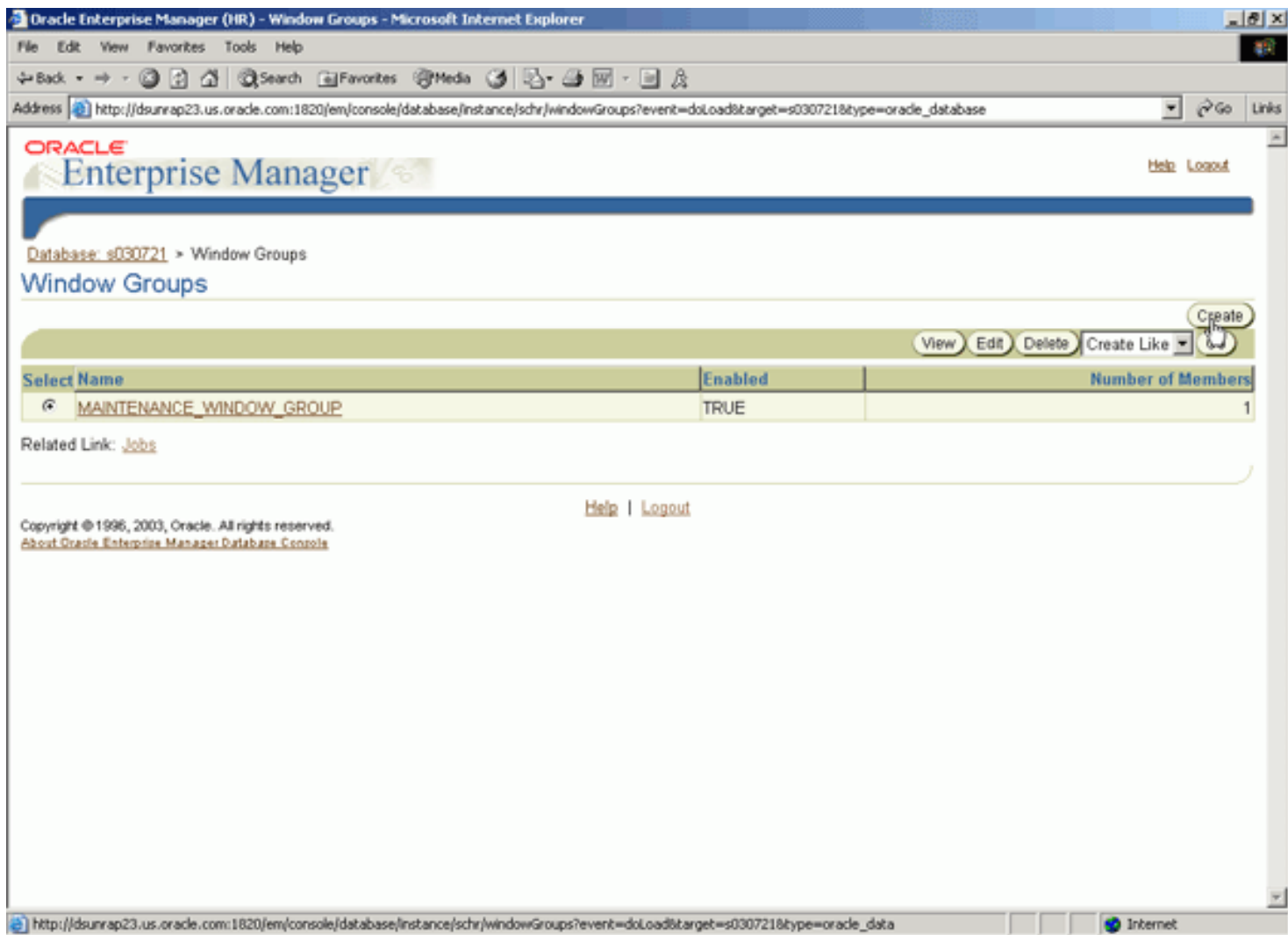


1. Then select **Window Group** from the **Administration** tab.

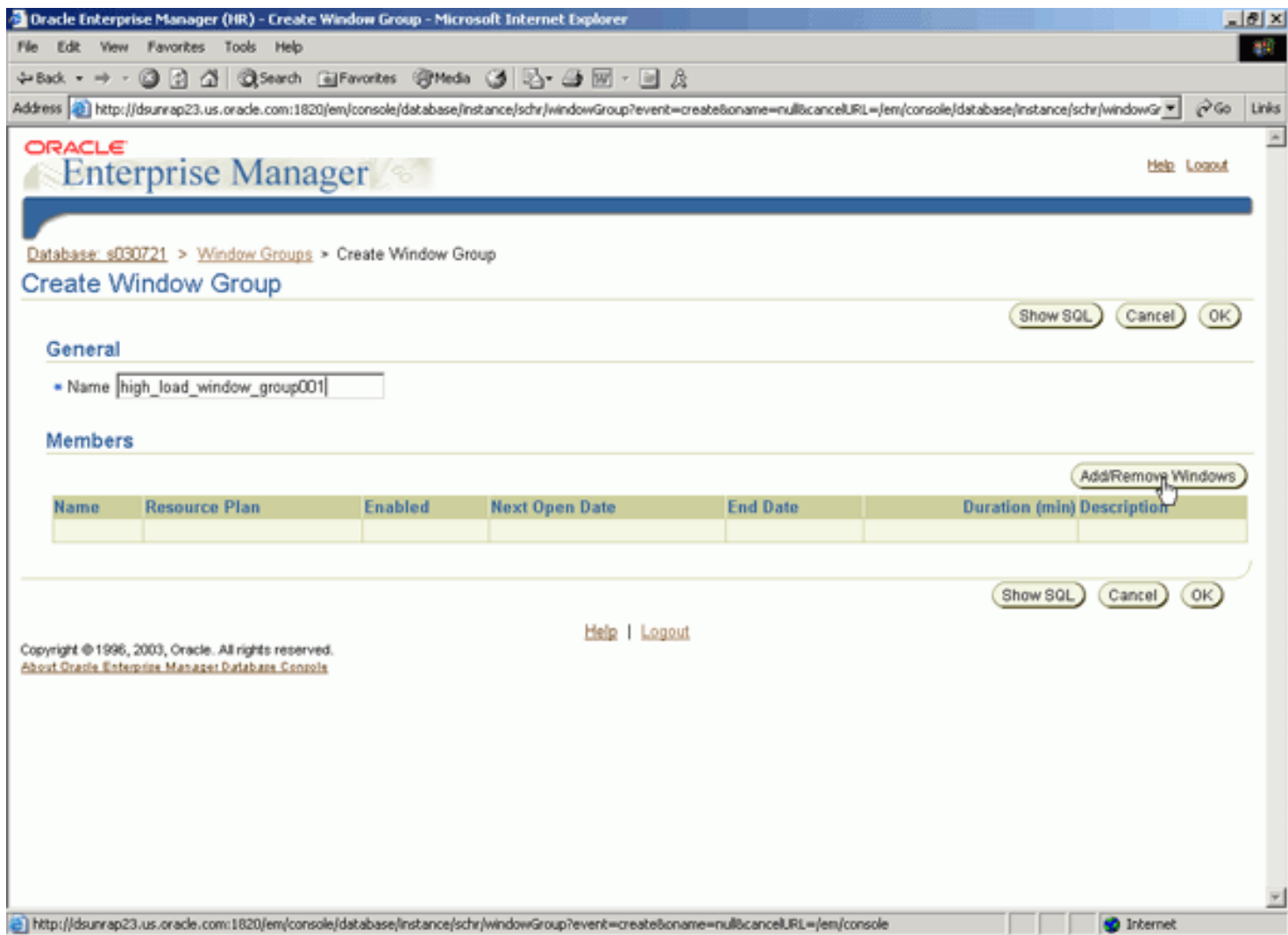


2. Click **Create**.

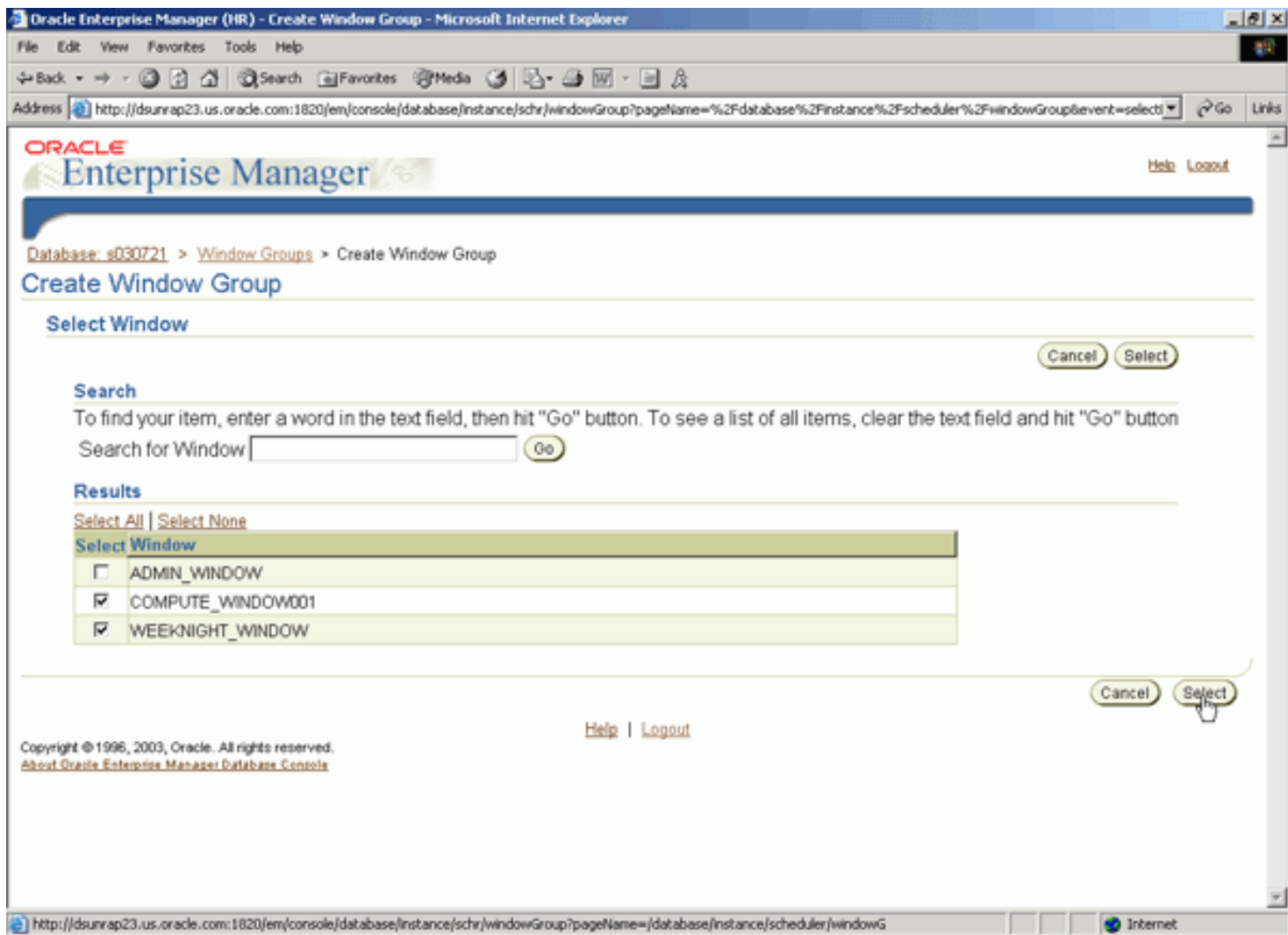




3. Enter the name **high\_load\_window\_group001** and click **Add/Remove Windows** .



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



5. Click **OK** .

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%2FselectWindow&searchObject> Go Links

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
<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	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](#)

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

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 (HR) - 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

View Edit Delete Create Like Go Create

Select	Name	Enabled	Number of Members
<input checked="" type="radio"/>	<a href="#">HIGH_LOAD_WINDOW_GROUP001</a>	TRUE	2
<input type="radio"/>	<a href="#">MAINTENANCE_WINDOW_GROUP</a>	TRUE	1

Related Link: [Jobs](#)

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[About Oracle Enterprise Manager Database Console](#)

Help | Logout

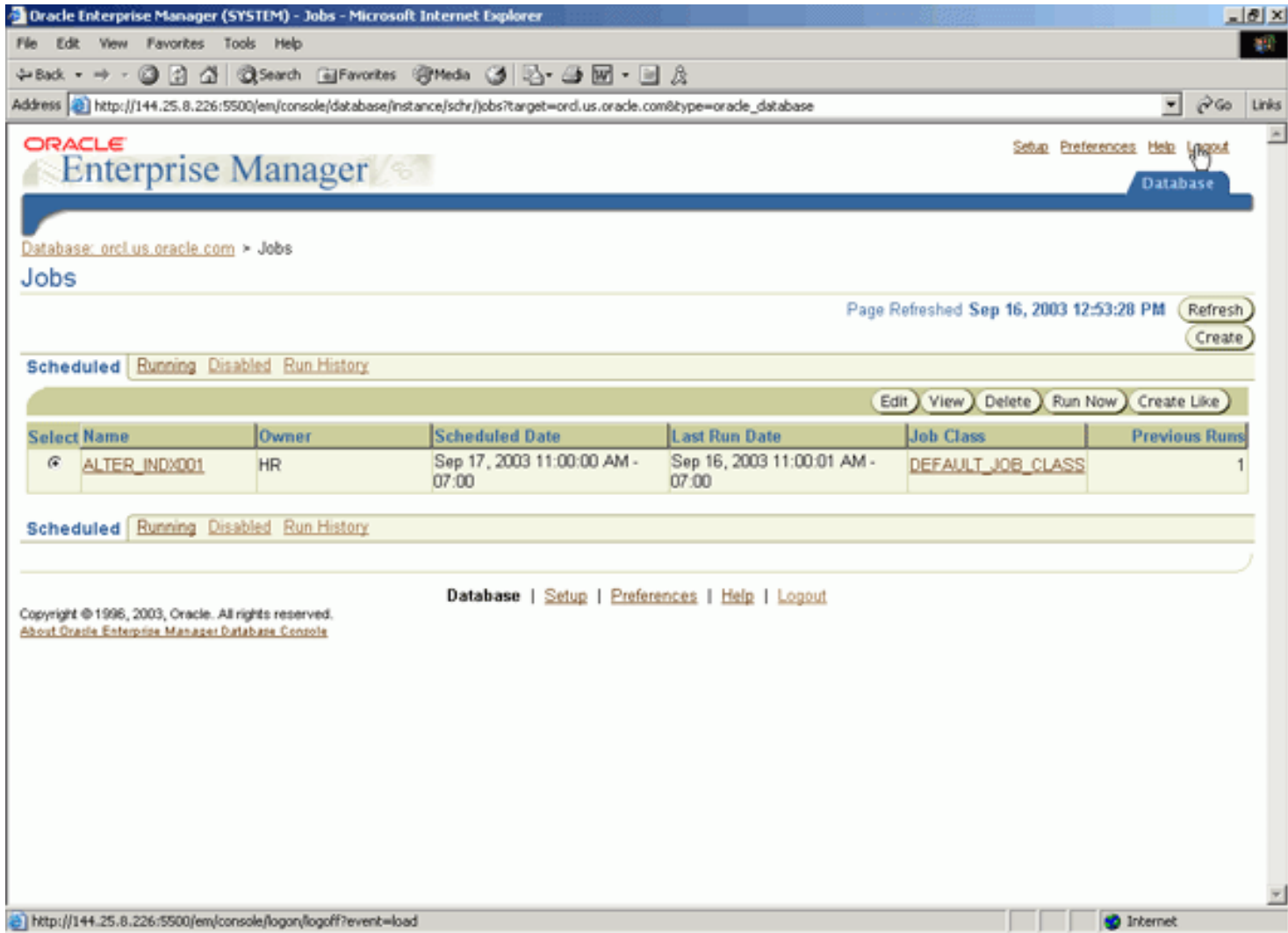
Address: [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle\\_database](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/jobs?target=s030721&type=oracle_database)

## 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**.



Oracle Enterprise Manager (SYSTEM) - 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](http://144.25.8.226:5500/em/console/database/instance/schr/jobs?target=ord.us.oracle.com&type=oracle_database)

ORACLE Enterprise Manager Database

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

Jobs

Page Refreshed Sep 16, 2003 12:53:28 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"/>	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

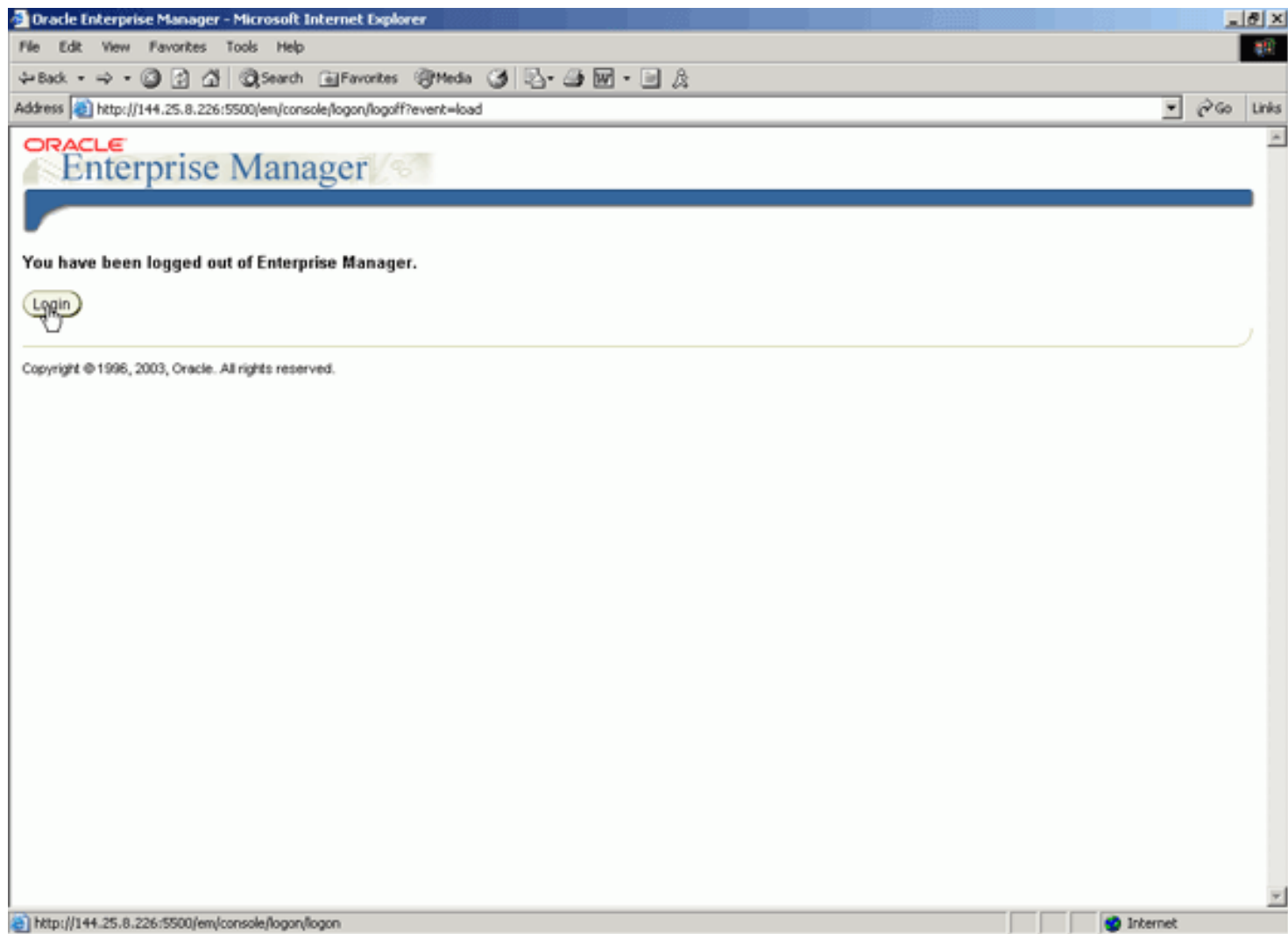
Scheduled Running Disabled Run History

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

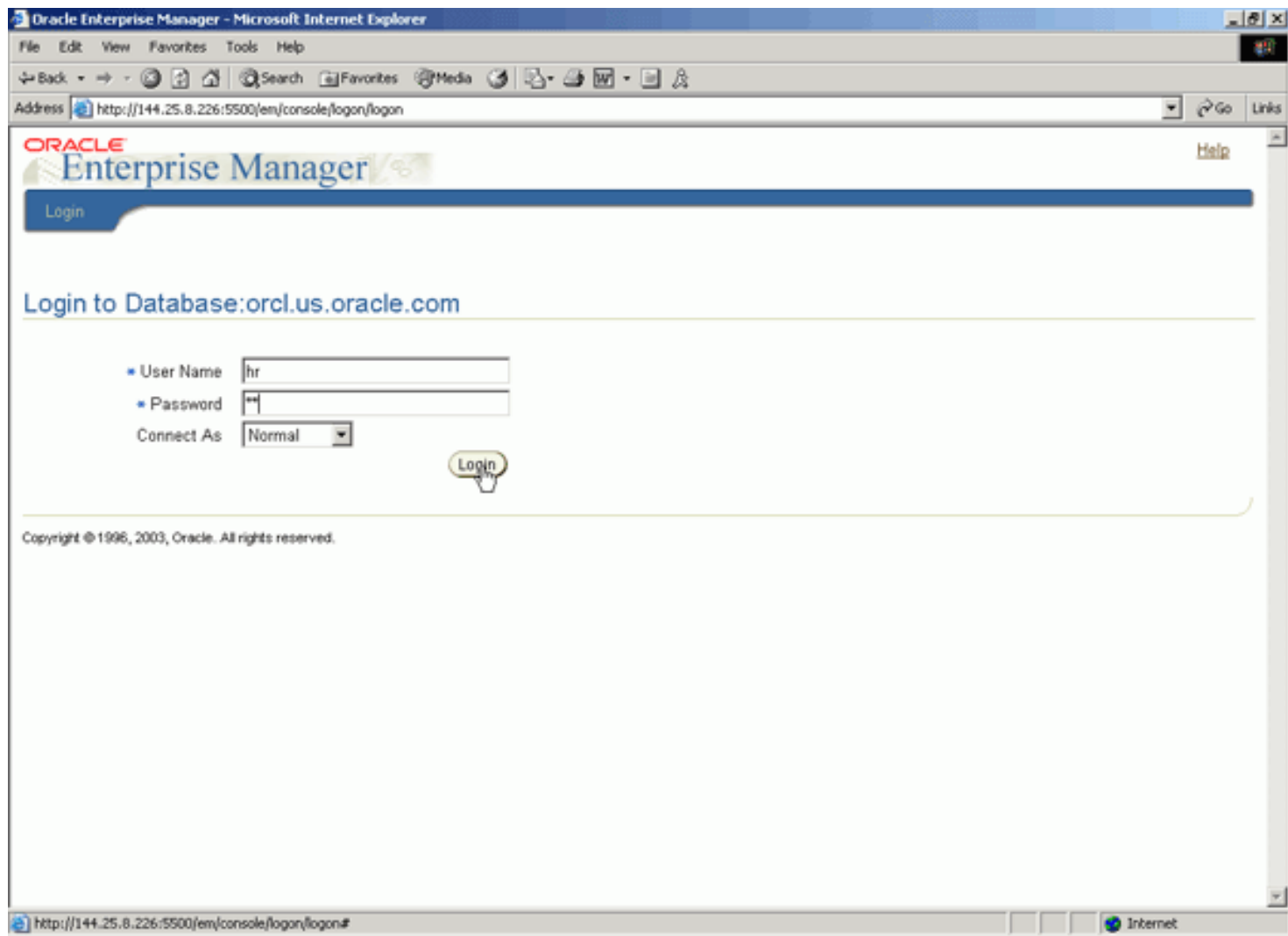
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[About Oracle Enterprise Manager Database Console](#)

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

2. Click **Login**.

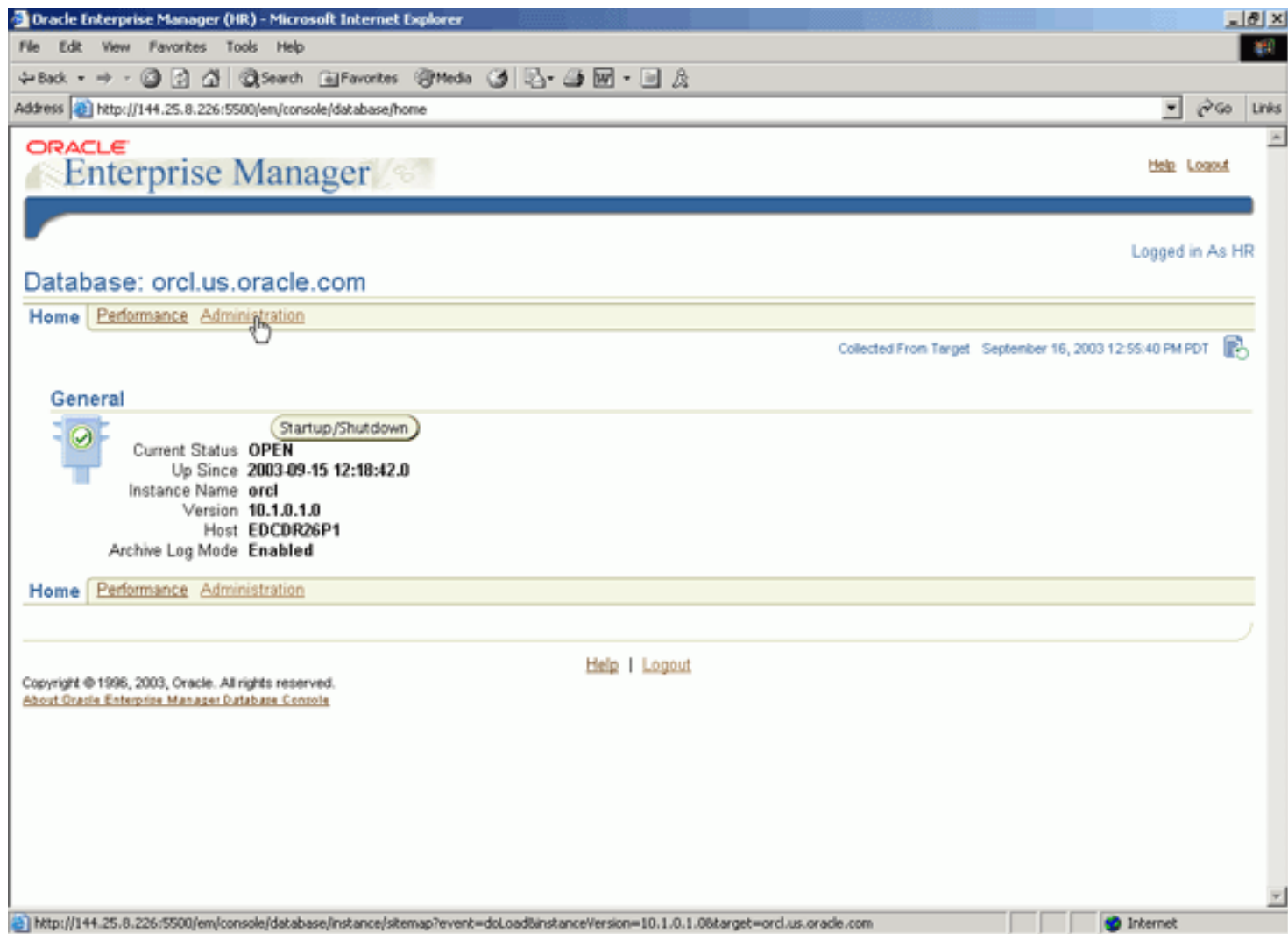


3. Enter **hr/hr** and click **Login** .



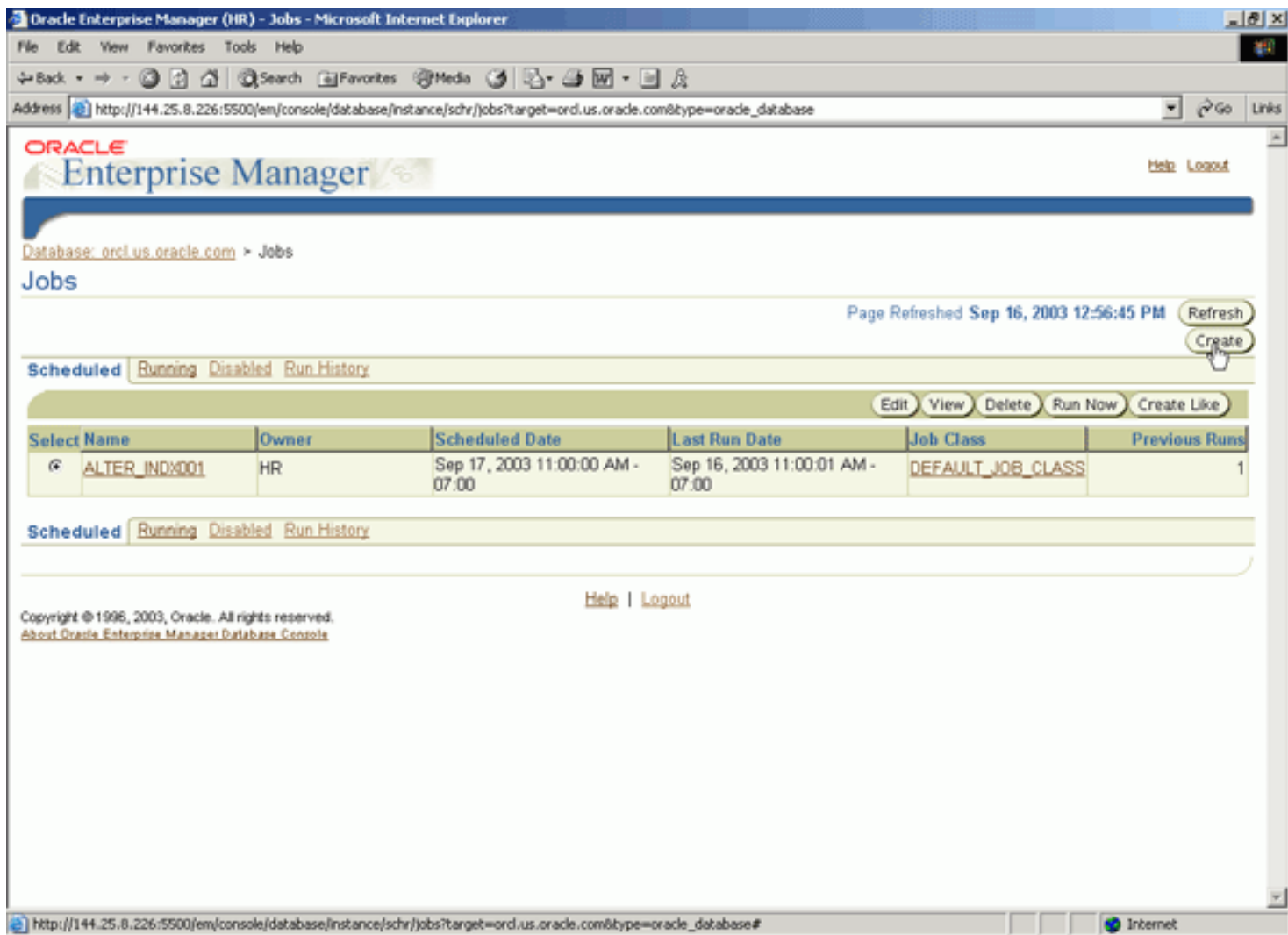
4. Click **Administration** .





5. Click **Jobs** .



6. Click **Create**.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) Go Links

ORACLE Enterprise Manager Help Logout

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

8. 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=GV> Go Links

ORACLE Enterprise Manager Help Logout

Database: s030721 > Jobs > Create Job

## Create Job

Show SQL Cancel OK

General **Schedule** Options

Schedule Type Use Pre-defined Window

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

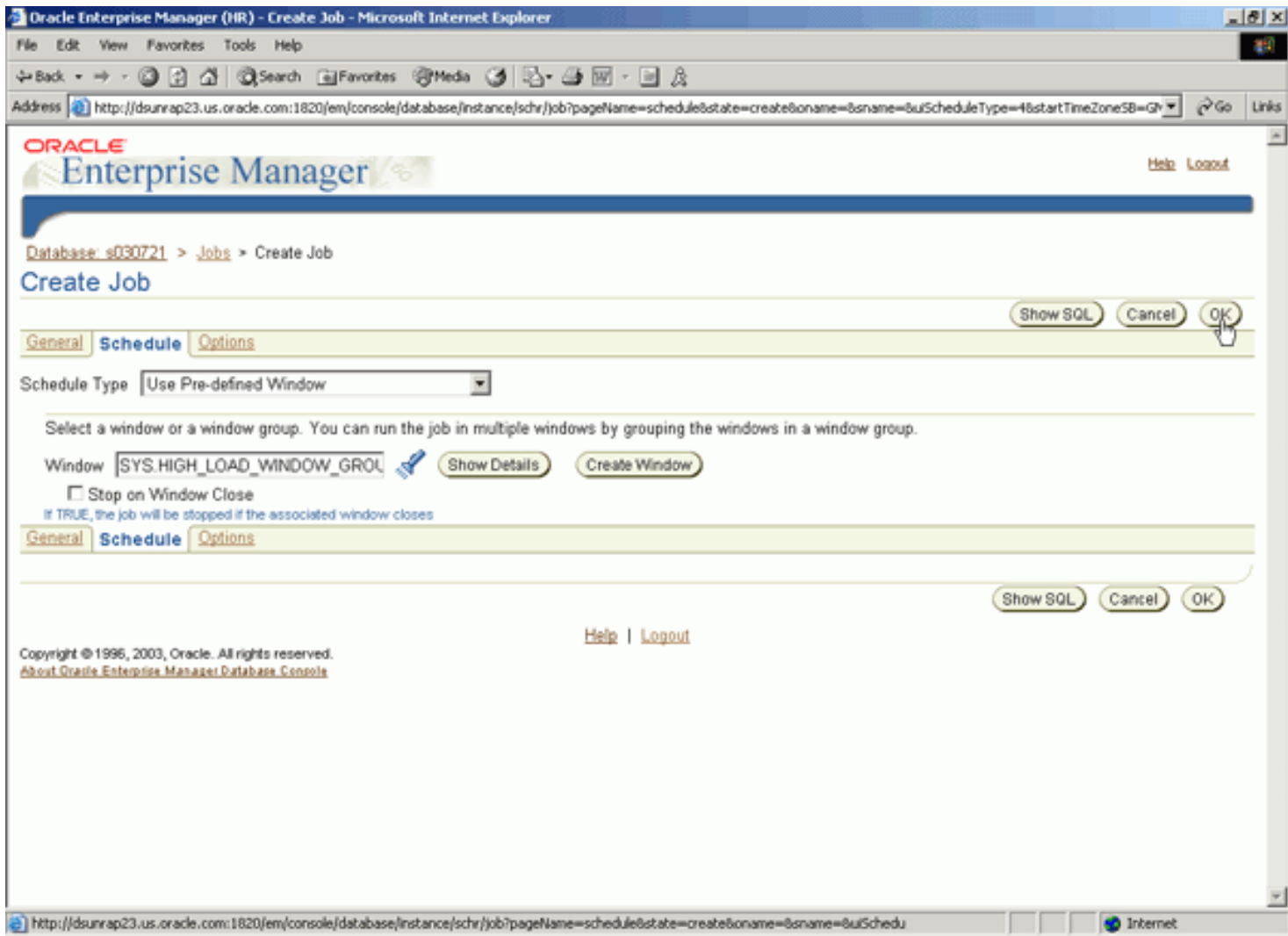
Select Name	Type
<input type="radio"/> ADMIN_WINDOW	Window
<input type="radio"/> COMPUTE_WINDOW001	Window
<input checked="" type="radio"/> HIGH_LOAD_WINDOW_GROUP001	Window Group
<input type="radio"/> MAINTENANCE_WINDOW_GROUP	Window Group
<input type="radio"/> WEEKNIGHT_WINDOW	Window

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

File Edit View Favorites Tools Help

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

ORACLE  
Enterprise Manager

Database: s030721 > Jobs

Jobs

Create

Confirmation  
Job HR.WG\_JOB001 has been created successfully

Page Refreshed Aug 3, 2003 7:48:24 AM 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"/>	WG_JOB001	HR		n/a	DEFAULT_JOB_CLASS	0
<input type="radio"/>	ALTER_IND001	HR	Aug 3, 2003 11:00:00 PM - 07:00	Aug 2, 2003 11:00:02 PM - 07:00	DEFAULT_JOB_CLASS	6

Scheduled Running Disabled Run History

Create

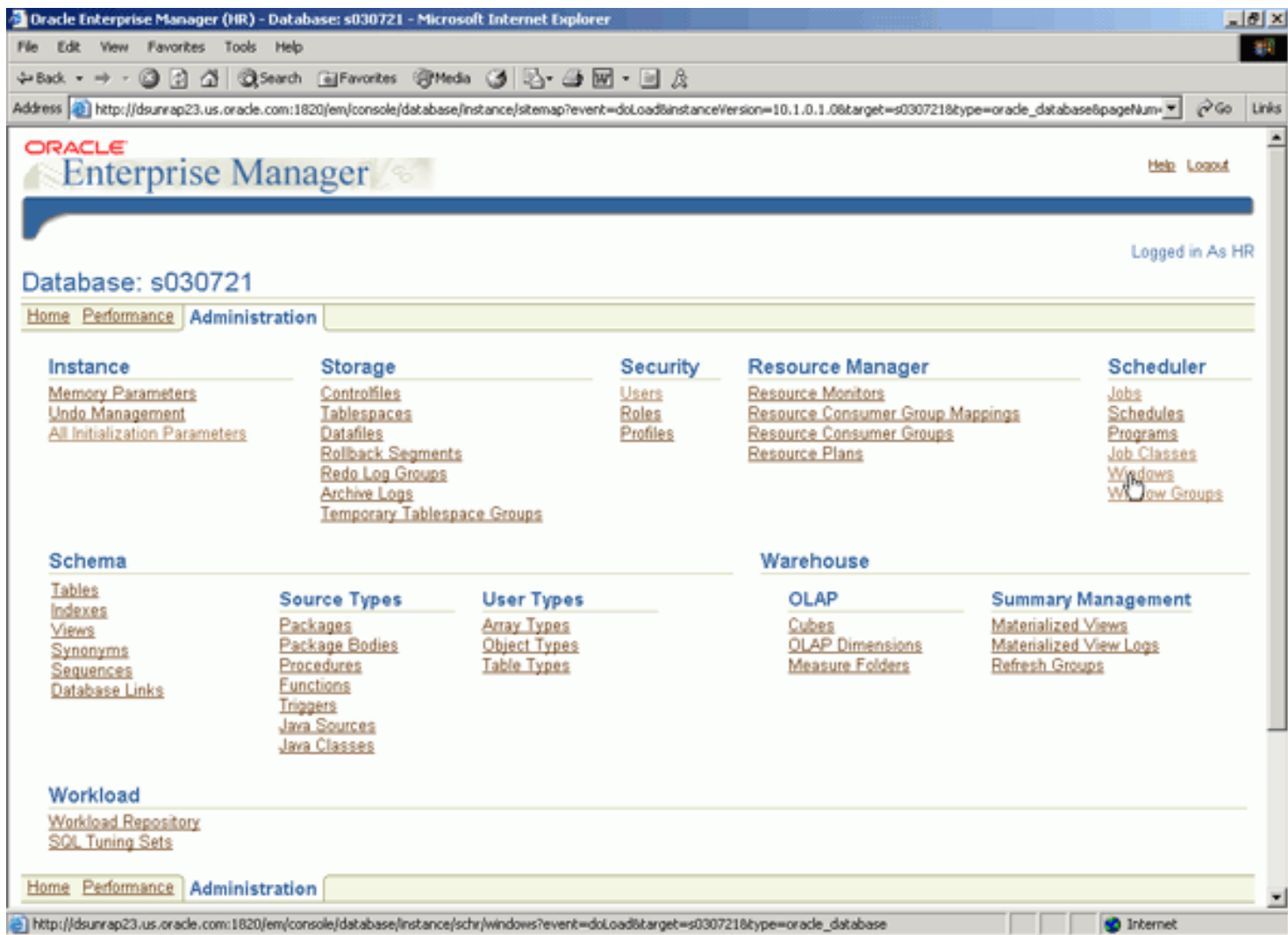
Help | Logout

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[About Oracle Enterprise Manager Database Console](#)

<http://dsunrap23.us.oracle.com:1820/em/console/database/home?event=doLoad&pageNum=3> Internet

Select **Windows** .

12.



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 (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) Go Links

ORACLE  
Enterprise Manager

Database: s030721 > Windows

## Windows

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

Create View Edit Delete Open

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](#)

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[About Oracle Enterprise Manager Database Console](#)
[Help](#) | [Logout](#)

[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#) Internet

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

14.

Oracle Enterprise Manager (HR) - Open Window: COMPUTE\_WINDOW001 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address [http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=open&name=COMPUTE\\_WINDOW001&cancelURL=/em/console/database/instance/s](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=open&name=COMPUTE_WINDOW001&cancelURL=/em/console/database/instance/s) Go Links

ORACLE  
Enterprise Manager

Database: s030721 > Windows > Open Window: COMPUTE\_WINDOW001

### Open Window: COMPUTE\_WINDOW001

Cancel OK

Opens a window prematurely. The window is opened immediately for the duration. The next open time is not updated and will be determined by the regular scheduled opening. If force option not specified and a current window is active the operation will fail, unless the window is the current open window. If the current open window equals window\_name, the closing time is set to the system date plus the given duration, i.e. the closing time of the current window is moved up or down, but no jobs are stopped.

Duration (min)  Hours  Minutes

Force Open ☒ Yes  
☐ No

Cancel OK

Help | Logout

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[http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=open&name=COMPUTE\\_WINDOW001&cancelURL=/em/c](http://dsunrap23.us.oracle.com:1820/em/console/database/instance/schr/window?event=open&name=COMPUTE_WINDOW001&cancelURL=/em/c) Internet

Select **Jobs** under Related Link.

15.

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

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print View Source

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) Go Links

**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 Console](#)

[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

Back Forward Stop Search Favorites Media Print View Source

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) Go Links

**ORACLE**  
Enterprise Manager

Help Logout

Database: s030721 > Jobs

**Jobs**

Create Refresh

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

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"/>	WG_JOB001	HR		n/a	DEFAULT_JOB_CLASS	0
<input type="radio"/>	ALTER_IND001	HR	Aug 3, 2003 11:00:00 PM - 07:00	Aug 2, 2003 11:00:02 PM - 07:00	DEFAULT_JOB_CLASS	6

Scheduled Running Disabled Run History

Create

Help | Logout

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[About Oracle Enterprise Manager Database Console](#)

[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

Back Forward 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** .

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

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

ORACLE Enterprise Manager

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

Jobs

Page Refreshed Sep 16, 2003 1:04:11 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_IND001</a>	HR	SUCCESS	Sep 16, 2003 11:00:02 AM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_INDX_PROG001</a>	HR	SUCCESS	Sep 15, 2003 12:50:53 PM -07:00	0.0
<input type="radio"/>	<a href="#">ALTER_IND001</a>	HR	SUCCESS	Sep 15, 2003 12:36:46 PM -07:00	0.0

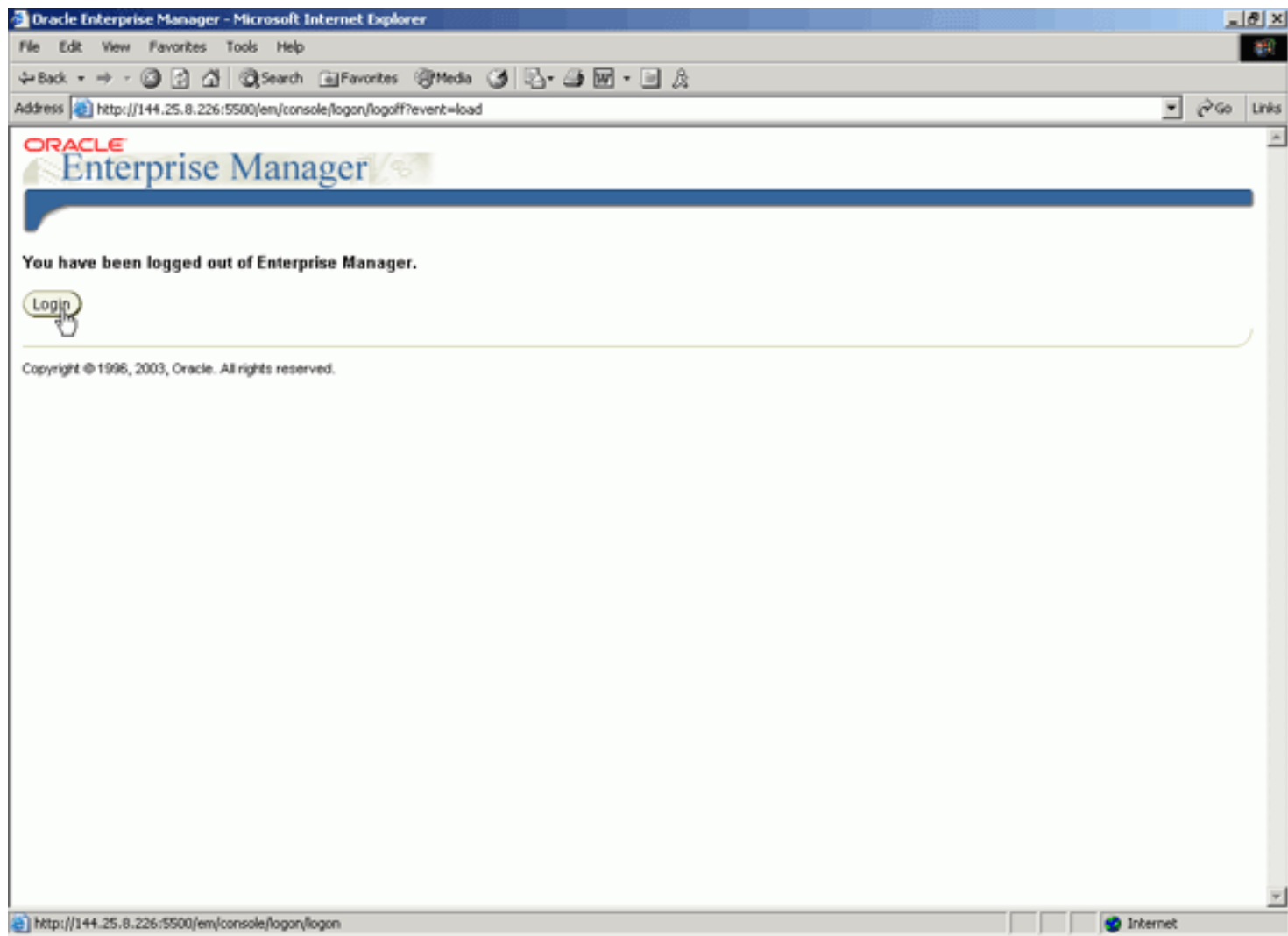
Scheduled Running Disabled Run History

Help | Logout

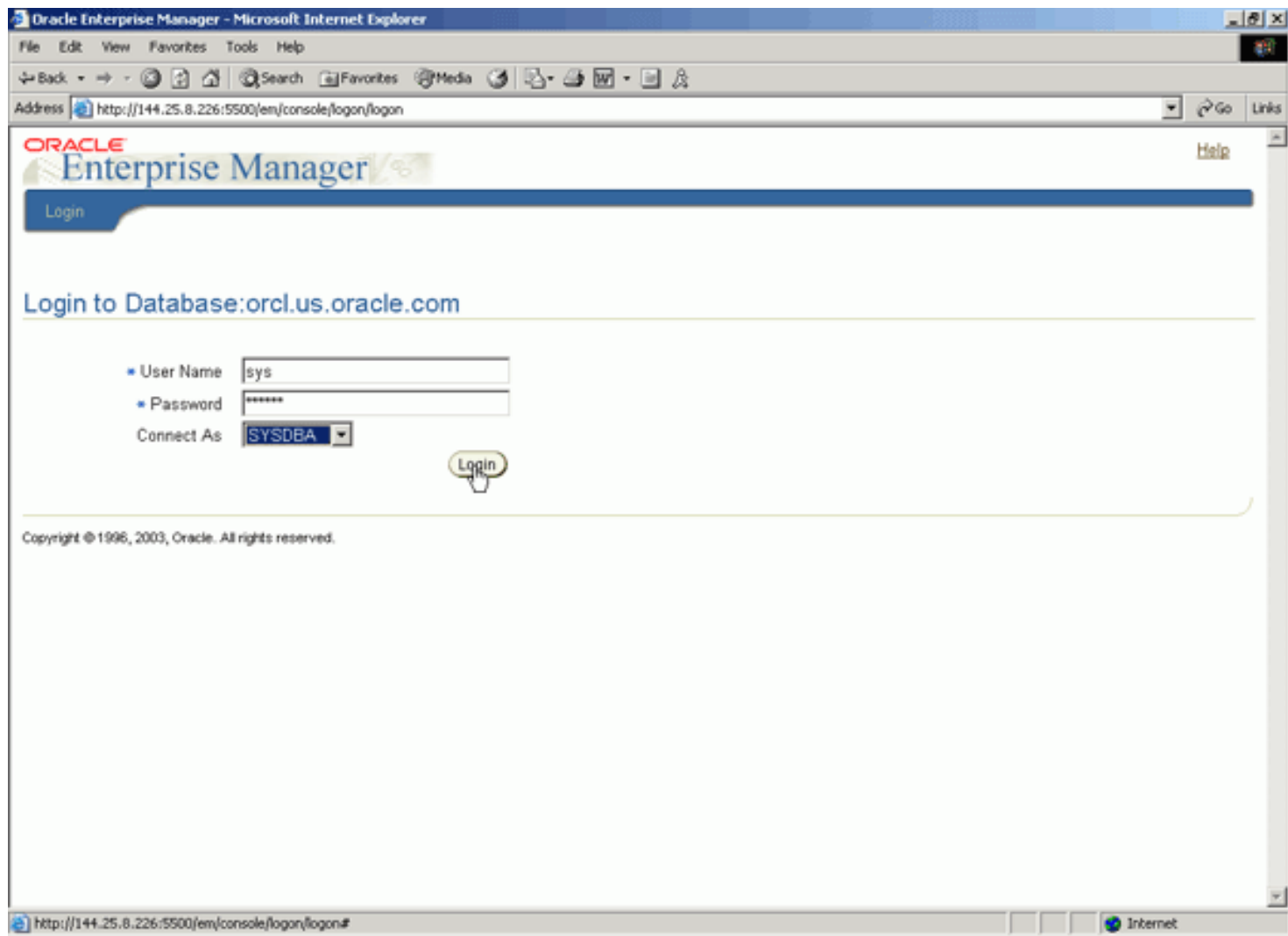
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[About Oracle Enterprise Manager Database Controls](#)

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

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) Go Links

**ORACLE** Enterprise Manager 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**



No data is currently available.

Active Sessions **Unavailable**

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

**Space Usage**

Problem **0**

Tablespaces **Not Configured**

Fragmentation **Unavailable**

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**

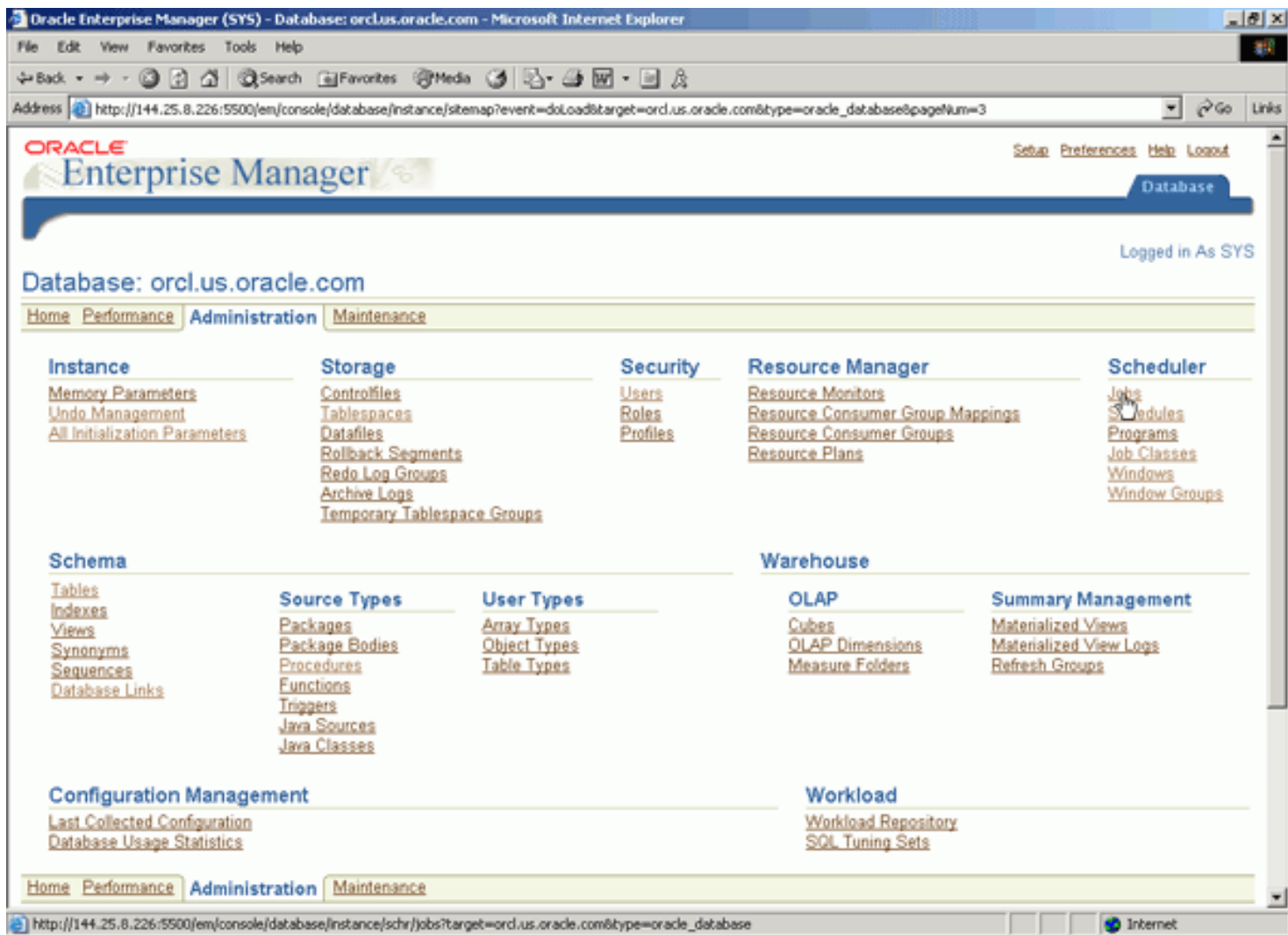
Running Executions **0**

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

5. Click **Jobs** .



- 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) Go Links

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"/>	WG_JOB001	HR		Sep 16, 2003 1:03:18 PM - 07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	ALTER_IND001	HR	Sep 17, 2003 11:00:00 AM - 07:00	Sep 16, 2003 11:00:01 AM - 07:00	DEFAULT_JOB_CLASS	1
<input type="radio"/>	PURGE_LOG	SYS	Sep 16, 2003 3:00:00 AM - 07:00	Sep 15, 2003 12:19:51 PM - 07:00	DEFAULT_JOB_CLASS	8
<input type="radio"/>	GATHER_STATS_JOB	SYS		Sep 15, 2003 10:00:05 PM - 07:00	AUTO_TASKS_JOB_CLASS	8

Scheduled Running Disabled Run History

Database | Setup | Preferences | Help | Logout

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[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) Go Links

ORACLE Enterprise Manager Database

Database: orcl.us.oracle.com > Jobs

Jobs

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

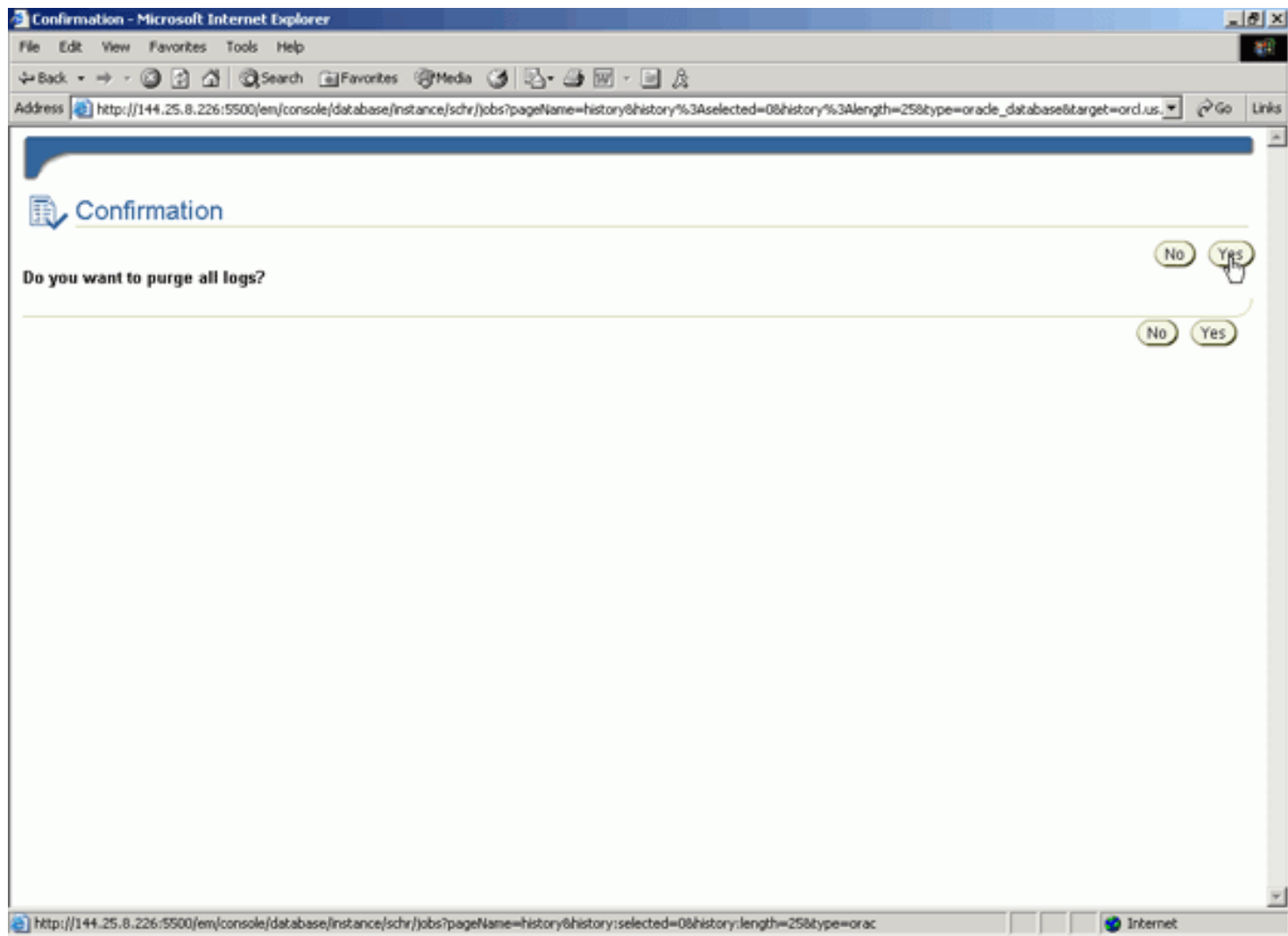
Scheduled Running Disabled Run History

Purge All Logs View Purge Log

Select	Name	Owner	Status	Completion Date	Run Duration (minutes)
<input checked="" type="radio"/>	WG_JOB001	HR	SUCCESS	Sep 16, 2003 1:03:18 PM -07:00	0.0
<input type="radio"/>	ALTER_IND001	HR	SUCCESS	Sep 16, 2003 11:00:02 AM -07:00	0.0
<input 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"/>	GATHER_STATS_JOB	SYS	SUCCESS	Sep 15, 2003 10:01:57 PM -07:00	1.86
<input type="radio"/>	ALTER_IND001	HR	SUCCESS	Sep 15, 2003 12:50:53 PM -07:00	0.0
<input type="radio"/>	ALTER_IND001	HR	SUCCESS	Sep 15, 2003 12:36:46 PM -07:00	0.0
<input type="radio"/>	PURGE_LOG	SYS	SUCCESS	Sep 15, 2003 12:19:53 PM -07:00	0.05
<input type="radio"/>	GATHER_STATS_JOB	SYS	SUCCESS	Sep 1, 2003 10:01:50 PM -07:00	1.7
<input type="radio"/>	PURGE_LOG	SYS	SUCCESS	Aug 31, 2003 3:00:04 AM -07:00	0.01
<input type="radio"/>	GATHER_STATS_JOB	SYS	SUCCESS	Aug 30, 2003 6:02:21 AM -07:00	2.18
<input type="radio"/>	PURGE_LOG	SYS	SUCCESS	Aug 30, 2003 3:00:03 AM -07:00	0.01
<input type="radio"/>	GATHER_STATS_JOB	SYS	SUCCESS	Aug 29, 2003 10:01:46 PM -07:00	1.63
<input type="radio"/>	PURGE_LOG	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.

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

ORACLE Enterprise Manager Database

Database: orcl.us.oracle.com > Jobs

**Confirmation**  
All logs are purged.

**Jobs**

Page Refreshed Sep 16, 2003 1:11:03 PM Refresh Create

Scheduled Running Disabled Run History Purge All Logs

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

Scheduled Running Disabled Run History

Database | Setup | Preferences | Help | Logout

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Done Internet

 Place the cursor on this icon to hide all screenshots.