

# Getting Started with *i* SQL\*Plus

## Purpose

In this lesson, you will learn how to use the *i* SQL\*Plus environment.

## Topics

This module will discuss the following:

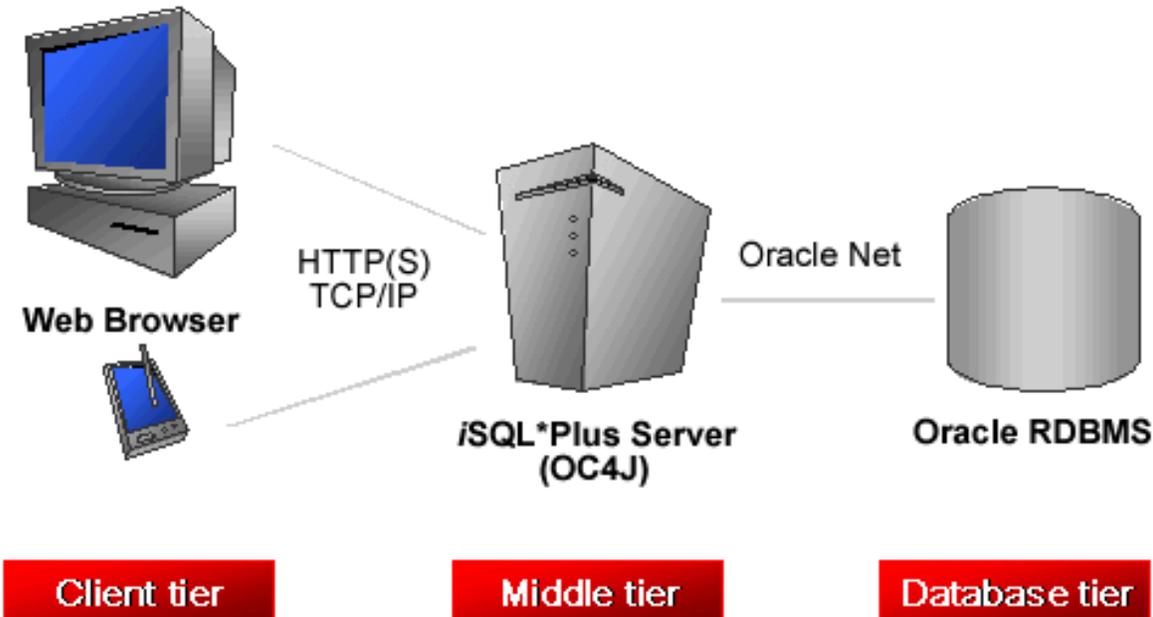
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## Overview

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*i* SQL\*Plus is a browser-based implementation of SQL\*Plus. You can use it connect to an Oracle database system over the Internet to perform the same tasks as those that are performed through the SQL\*Plus command line. The *i* SQL\*Plus implementation uses a Web browser, an Oracle HTTP Server with the *i* SQL\*Plus Server, and an Oracle Database.

## Architecture



## i SQL\*Plus User Interface

The *i SQL\*Plus* user interface runs in a web browser. There is no installation or configuration required for the *i SQL\*Plus* user interface other than a web browser.

## i SQL\*Plus Server

The *i SQL\*Plus* Server runs as an Oracle Containers for Java (OC4J) application. The *i SQL\*Plus* Server enables communication and authentication between the *i SQL\*Plus* user interface and the RDBMS.

## Oracle RDBMS

Oracle Net components provide communication between the *i SQL\*Plus* Server and the Oracle RDBMS.

## Prerequisites

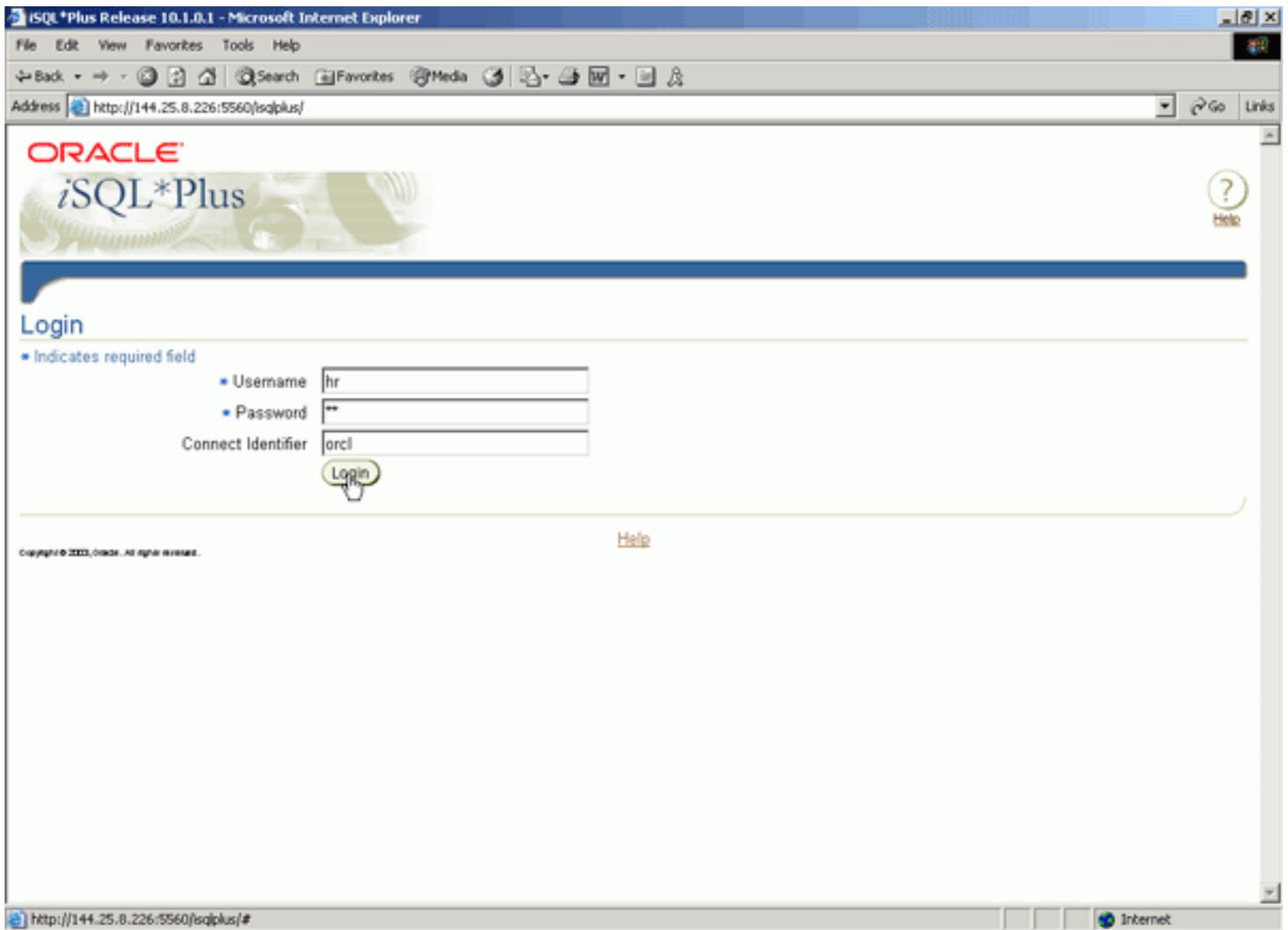
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Before starting this module, you should have performed the following:

1. Install Oracle Database 10g.
2. Download the [isqlplus.zip](#) into your working directory.

3. Open a terminal window and execute the following commands:

```
mkdir -p $ORACLE_HOME/oc4j/j2ee/home/default-web-app/scripts/  
cp ~/wkdir/ls_1.sql $ORACLE_HOME/oc4j/j2ee/home/default-web-app/scripts/  
cp ~/wkdir/script1.sql $ORACLE_HOME/oc4j/j2ee/home/default-web-app/scripts/  
cp ~/wkdir/script2.sql $ORACLE_HOME/oc4j/j2ee/home/default-web-app/scripts/  
cp ~/wkdir/sub_var.sql $ORACLE_HOME/oc4j/j2ee/home/default-web-app/scripts/
```



## Logging In

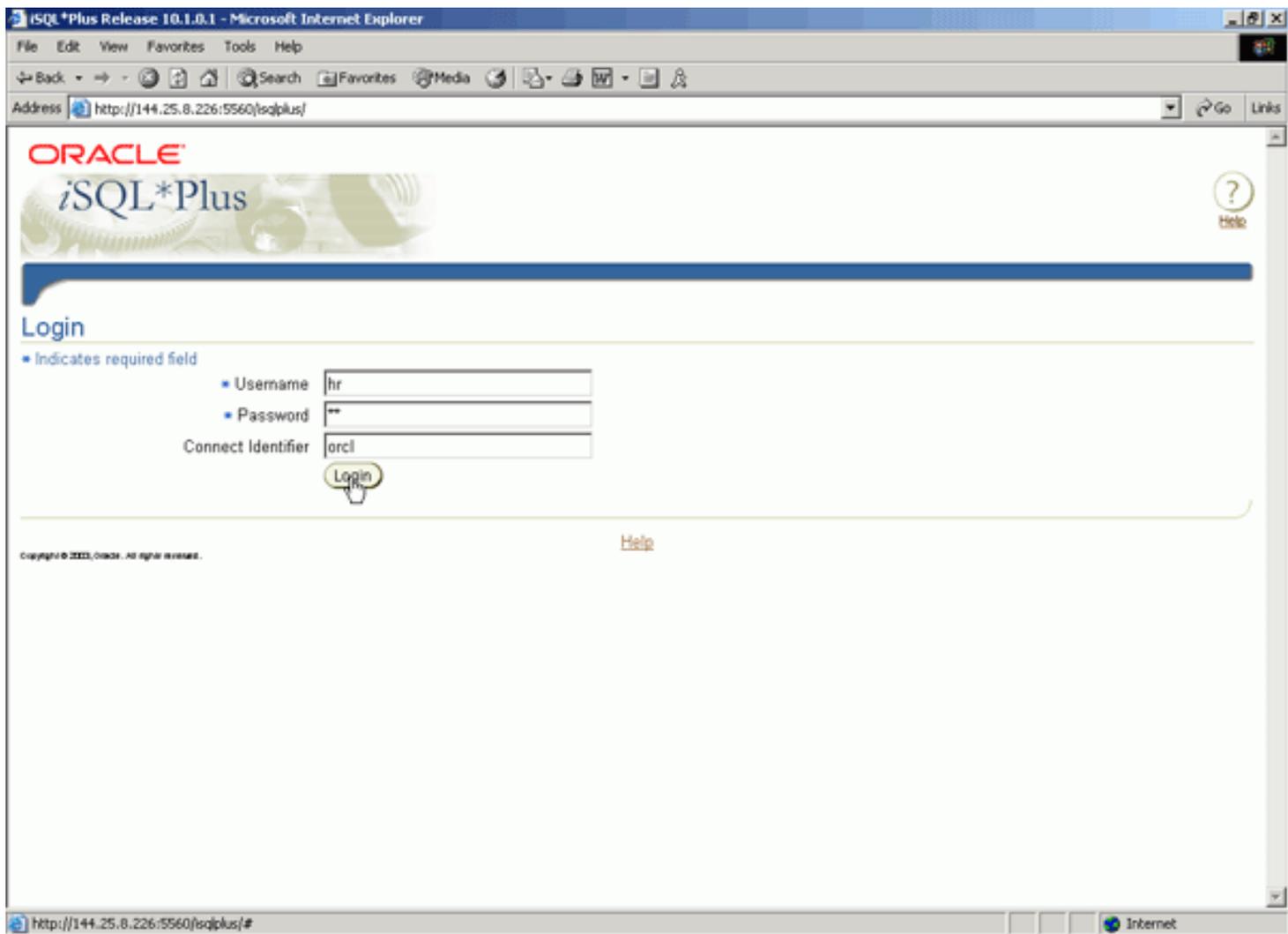
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To login, perform the following:

1. Open your browser and enter the following URL:

`http://<hostname>:5560/isqlplus`

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



## Executing Statements

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Enter SQL statements and *i* SQL\*Plus commands in the Input area as you would in command line SQL\*Plus. You can enter multiple commands at once.

1. Type (or copy) the following commands into the Input area and click the **Execute** button.

```
SET PAGESIZE 200  
DESCRIBE employees
```

```
SELECT first_name  
FROM employees  
WHERE salary>1200;
```

```
SELECT * FROM employees;
```

iSQL\*Plus Release 10.1.0.1 - Microsoft Internet Explorer

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Address http://144.25.8.226:5560/izsqlplus/login.uix

ORACLE  
iSQL\*Plus

Logout Preferences Help

Workspace History

Connected as HR@orcl

Workspace

Enter SQL, PL/SQL and SQL\*Plus statements. Clear

```
SET PAGESIZE 200  
DESCRIBE employees  
  
SELECT first_name  
FROM employees  
WHERE salary>1200;  
  
SELECT * FROM employees;
```

Execute Load Script Save Script Cancel

Clear

Workspace | History | Logout | Preferences | Help

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http://144.25.8.226:5560/izsqlplus/login.uix# Internet

- The results are displayed under the Input area. Click **Clear** .

The screenshot shows the iSQL\*Plus web interface in a Microsoft Internet Explorer browser. The address bar shows the URL: `http://144.25.8.226:5560/sqlplus/workspace.uxr`. The page title is "iSQL\*Plus Release 10.1.0.1 - Microsoft Internet Explorer". The interface includes a navigation bar with "Logout", "Preferences", and "Help" links. Below the navigation bar, there are tabs for "Workspace" and "History". The user is connected as "HR@orcl".

The main workspace area contains a text input field with the following SQL statements:

```

SET PAGESIZE 200
DESCRIBE employees

SELECT first_name
FROM employees
WHERE salary>1200;

SELECT * FROM employees;

```

Below the input field are buttons for "Execute", "Load Script", "Save Script", and "Cancel". A "Clear" button is also visible in the top right corner of the workspace area.

The results of the SQL statements are displayed in a table with the following columns: Name, Null?, and Type.

Name	Null?	Type
EMPLOYEE_ID	NOT NULL	NUMBER(6)
FIRST_NAME		VARCHAR2(20)
LAST_NAME	NOT NULL	VARCHAR2(25)
EMAIL	NOT NULL	VARCHAR2(25)
PHONE_NUMBER		VARCHAR2(20)
HIRE_DATE	NOT NULL	DATE
JOB_ID	NOT NULL	VARCHAR2(10)
SALARY		NUMBER(8,2)
COMMISSION_PCT		NUMBER(2)

The browser's address bar at the bottom shows the URL: `http://144.25.8.226:5560/sqlplus/workspace.uxr?event=clear`.

## Running Nested Scripts

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iSQL\*Plus runs nested scripts over HTTP and FTP. In this example, `script1.sql` contains a request to run `script2.sql`. `script1.sql` contains:

```

PROMPT "This is the first script"
SET PAGESIZE 200
SELECT FIRST_NAME, LAST_NAME
FROM EMP_DETAILS_VIEW
WHERE SALARY > 12000
ORDER BY LAST_NAME;

```

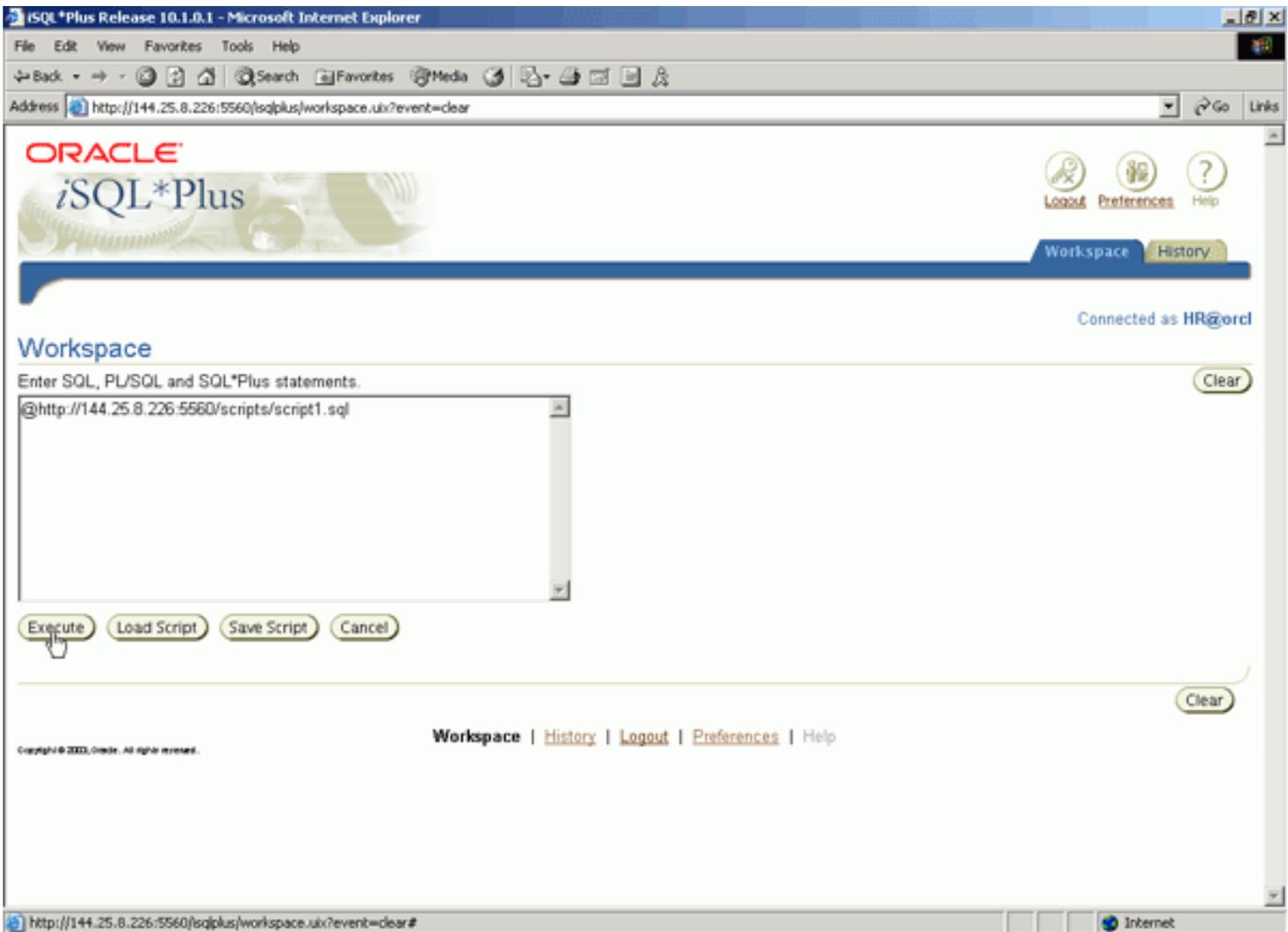
@script2.sql

script2.sql contains:

```
PROMPT "This is the second script"  
SHOW USER  
SELECT LAST_NAME, SALARY  
FROM EMP_DETAILS_VIEW  
WHERE SALARY > 12000  
ORDER BY SALARY DESC;
```

1. Load and execute script1.sql by entering the URL to the script in the iSQL\*Plus Workspace and clicking the **Execute** button. The syntax to load the script is:

**@http://<hostname>:5560/scripts/script1.sql**



2. script1.sql is executed and the results are displayed. Click **Clear**.

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iSQL\*Plus

Logout Preferences Help

Workspace History

Connected as HR@orcl

Workspace

Enter SQL, PL/SQL and SQL\*Plus statements.

@http://144.25.8.226:5560/scripts/script1.sql

Clear

Execute Load Script Save Script Cancel

"This is the first script"

FIRST_NAME	LAST_NAME
Lex	De Haan
Michael	Hartstein
Steven	King
Neena	Kochhar
Karen	Partners
John	Russell

http://144.25.8.226:5560/isdplus/workspace.uix?event=clear

Internet

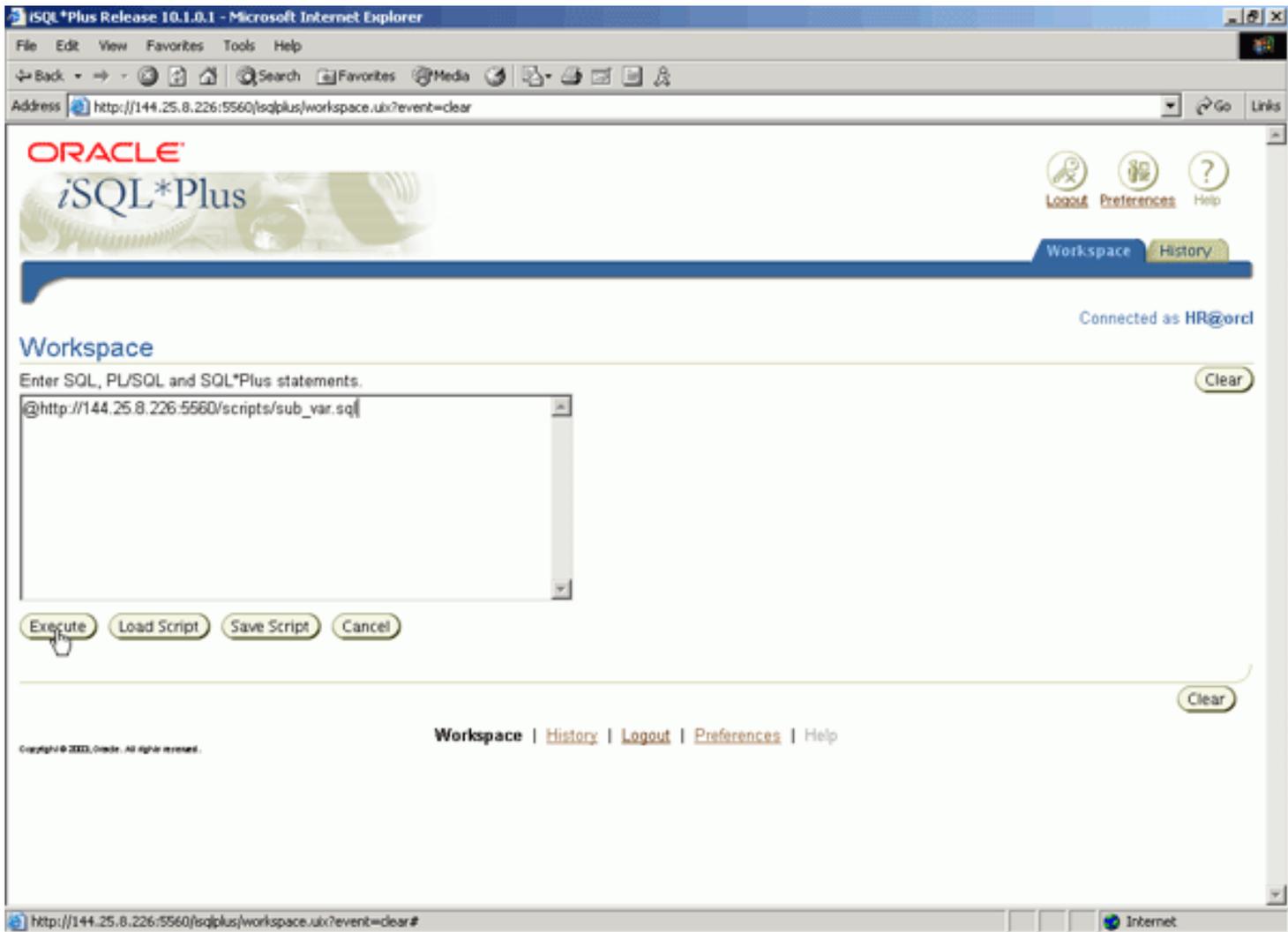
## Substitution Variables

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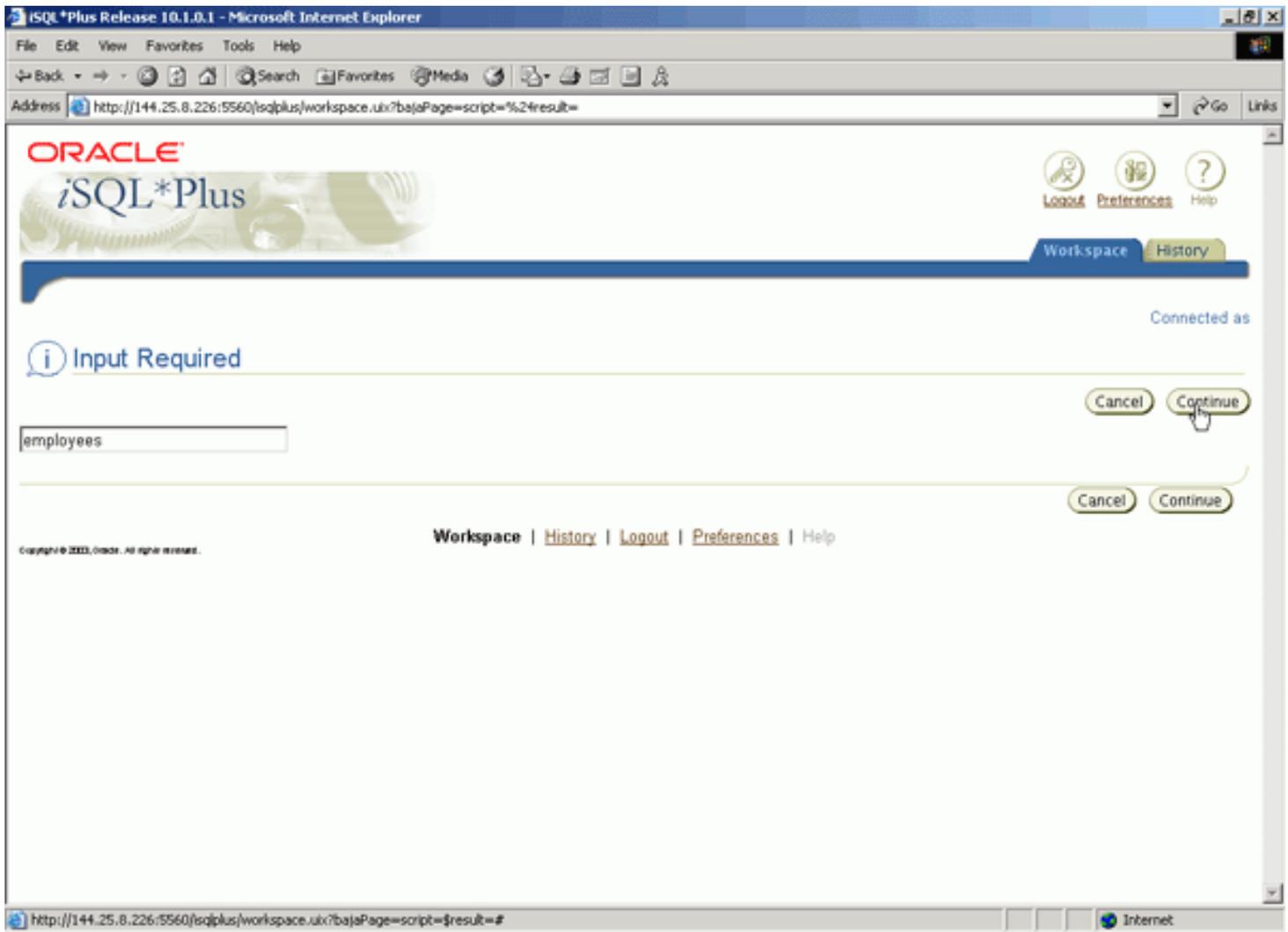
i SQL\*Plus prompts you for values for substitution variables in your scripts.

1. Load `sub_var.sql` by entering the following URL and click **Execute**.

@[http://<hostname>:5560/scripts/sub\\_var.sql](http://<hostname>:5560/scripts/sub_var.sql)



2. The Input Required screen is displayed. Enter `employees` in the Input Required screen. Click the **Continue** button.



3. The script executed and the results are displayed in the Workspace. Click **Clear** .

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iSQL\*Plus

Logout Preferences Help

Workspace History

Not connected

Workspace

Enter SQL, PL/SQL and SQL\*Plus statements.

@http://144.25.8.226:5560/scripts/sub\_var.sql

Execute Load Script Save Script Cancel

old 2: FROM &mytable  
new 2: FROM employees

LAST_NAME	SALARY
De Haan	17000
Hartstein	13000
King	24000
Kochhar	17000
Partners	13500

http://144.25.8.226:5560/islplus/workspace.ub?event=clear

## Prompting for Values

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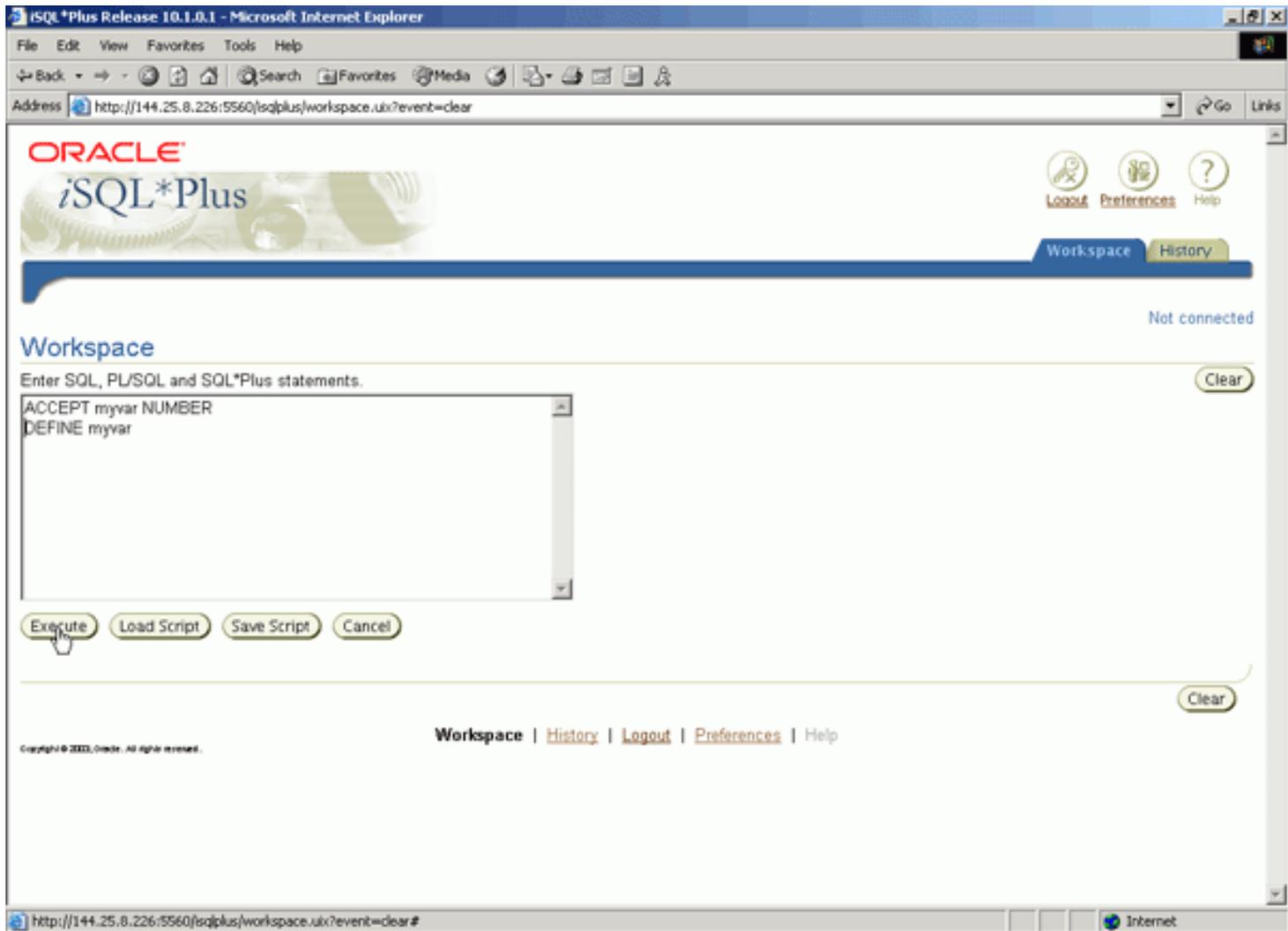
i SQL\*Plus prompts for values, as it does for (&) substitution variables, for the:

- ACCEPT command to request values for variables
- RECOVER command to request the location of the log file ( RECOVER command with SET AUTORECOVERY OFF )
- PASSWORD command
- CONNECT command where incomplete connection information is given

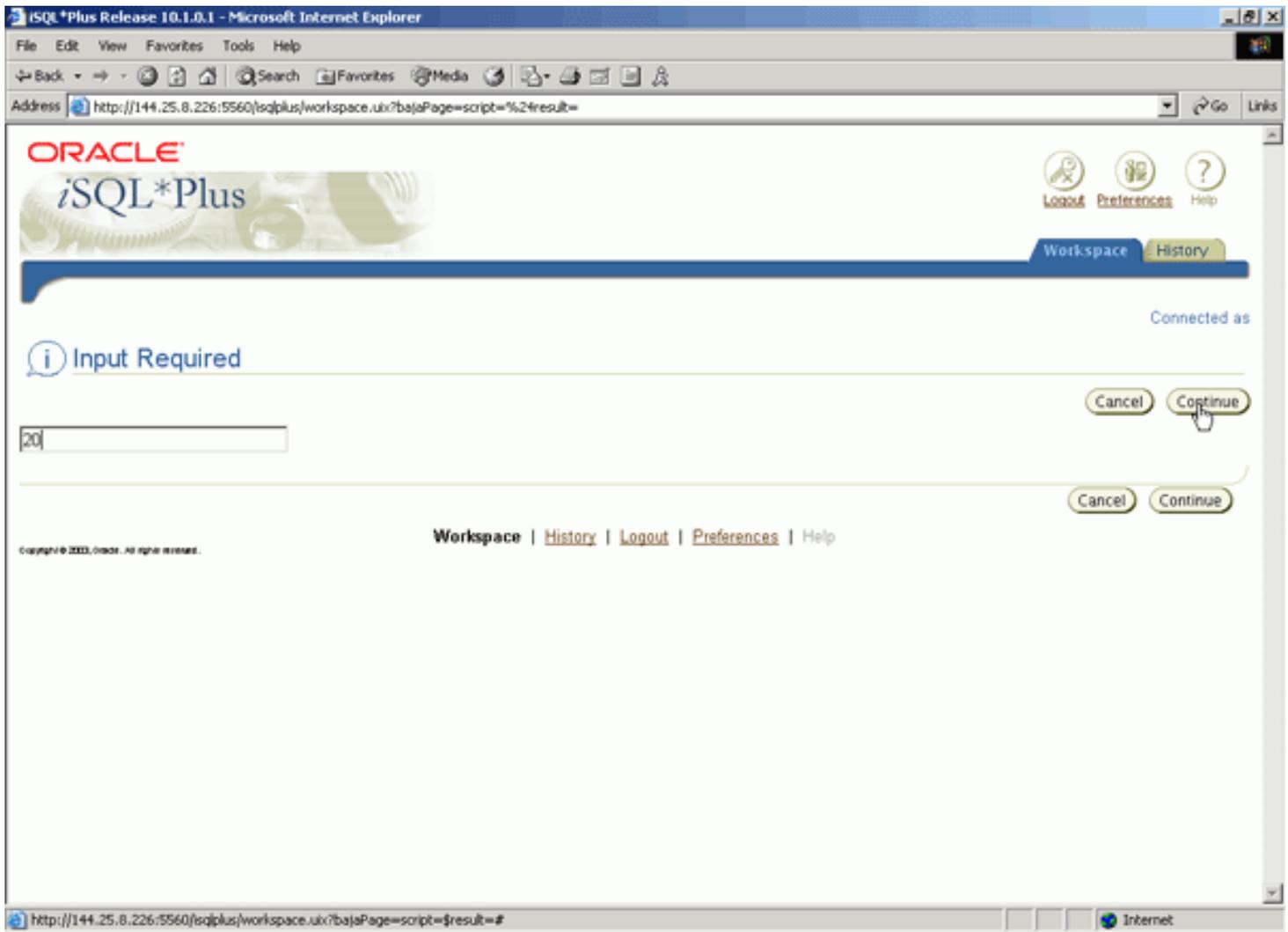
The following example uses an ACCEPT command. The same user interaction occurs for the other commands listed above.

1. Enter the following commands and click **Execute** .

**ACCEPT myvar NUMBER**  
**DEFINE myvar**



2. The Input Required screen appears and waits for a value for the myvar variable. Enter **20** , and click the **Continue** button.



3. The results are displayed in the Workspace.

iSQL\*Plus Release 10.1.0.1 - Microsoft Internet Explorer

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Address http://144.25.8.226:1560/lsqplus/input.ub?inputValue=20&event=continue

ORACLE  
iSQL\*Plus

Logout Preferences Help

Workspace History

Not connected

### Workspace

Enter SQL, PL/SQL and SQL\*Plus statements. Clear

```
ACCEPT myvar NUMBER  
DEFINE myvar
```

Execute Load Script Save Script Cancel

```
DEFINE MYVAR = 20 (NUMBER)
```

Clear

Workspace | [History](#) | [Logout](#) | [Preferences](#) | [Help](#)

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javascript:submitForm('worksheet', 0, {event:'prefs', parm1:'script'});

Internet