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:

- Overview
- Prerequisites
- Logging In
- Executing Statements
- Running Nested Scripts
- Substitution Variables
- Prompting for Values

Overview

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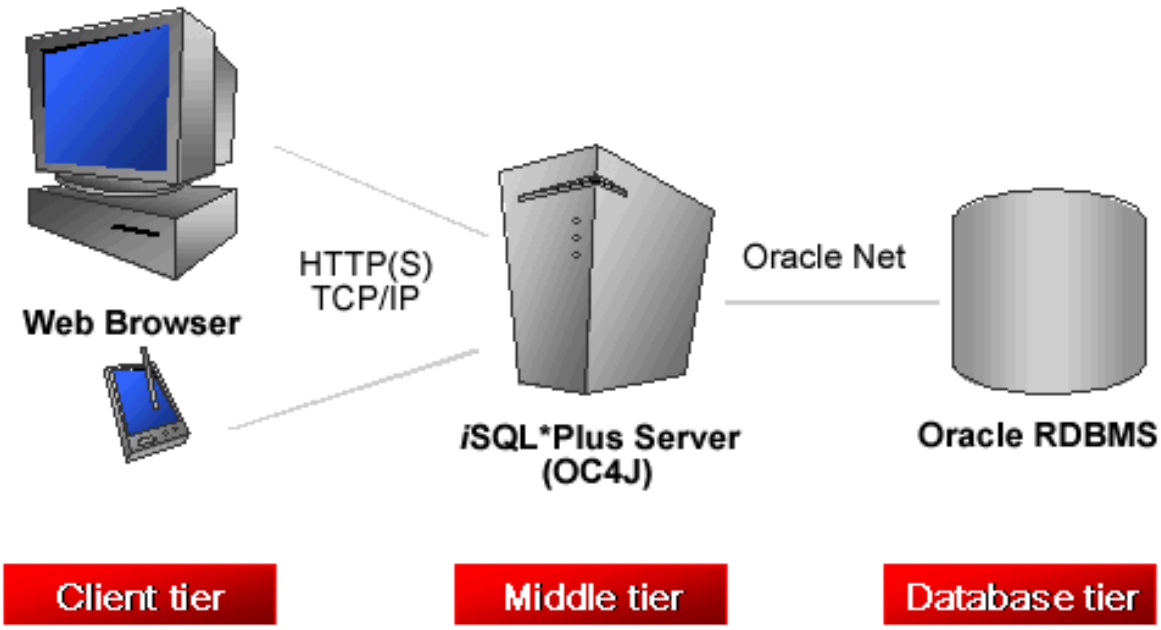
i SQL*Plus is a browser-based implementation of SQL*Plus. You can use it connect to an Oracle database system over the Internet to perform the same tasks as those that are performed through the SQL*Plus command line. The *i* SQL*Plus implementation uses a Web browser, an Oracle HTTP Server with the *i* 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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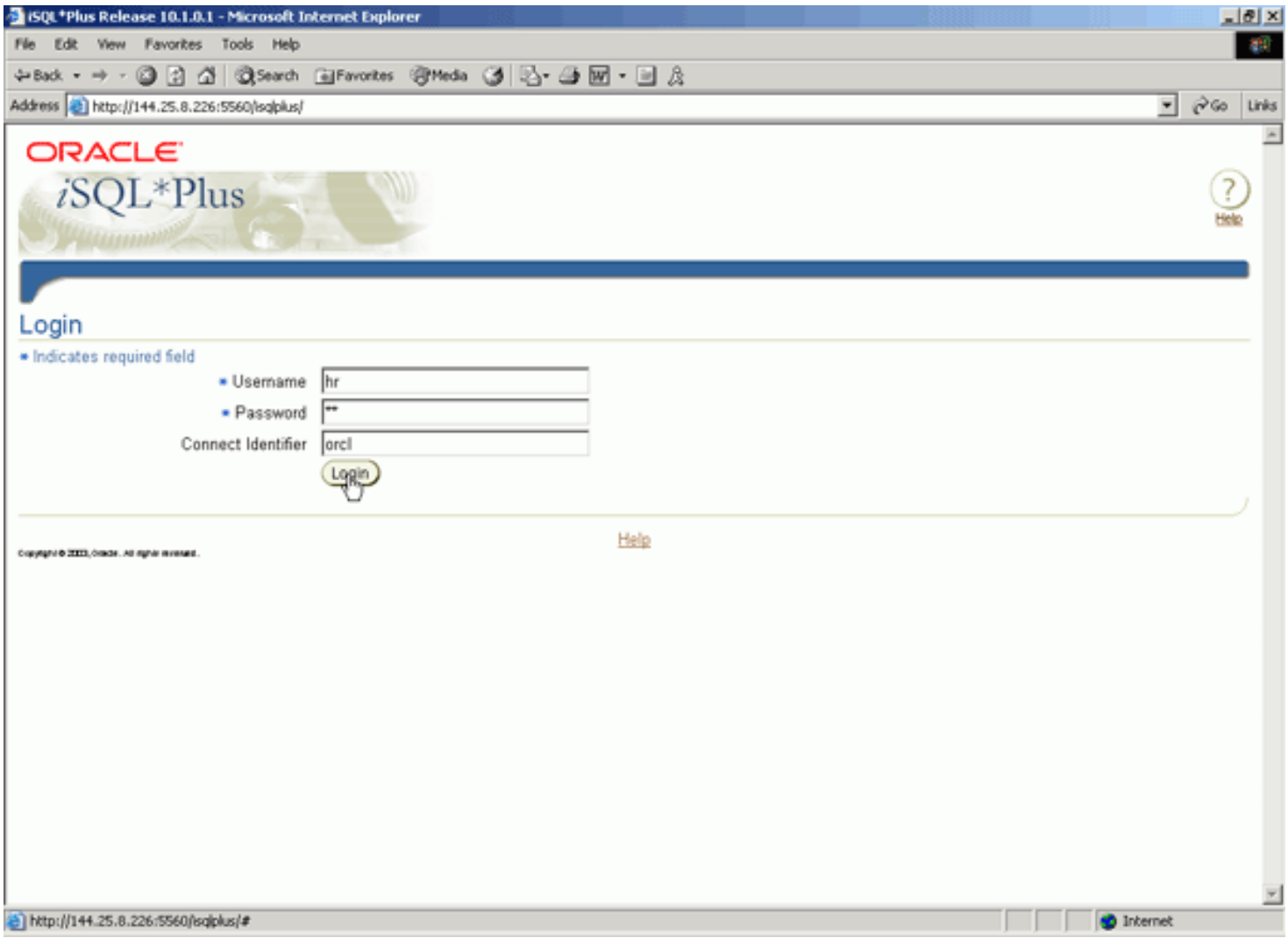
Before starting this module, you should have performed the following:

☐ **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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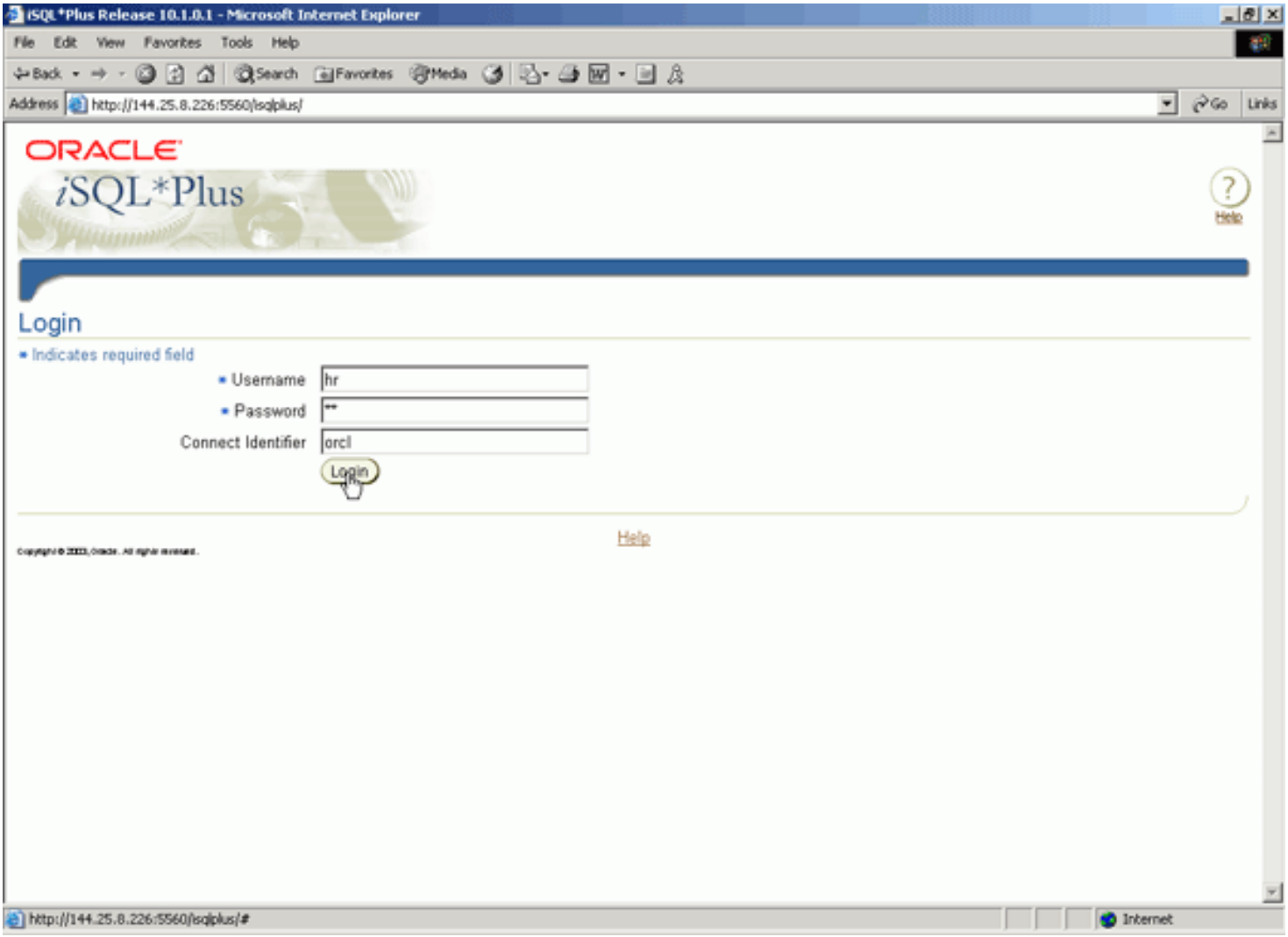
To login, perform the following:

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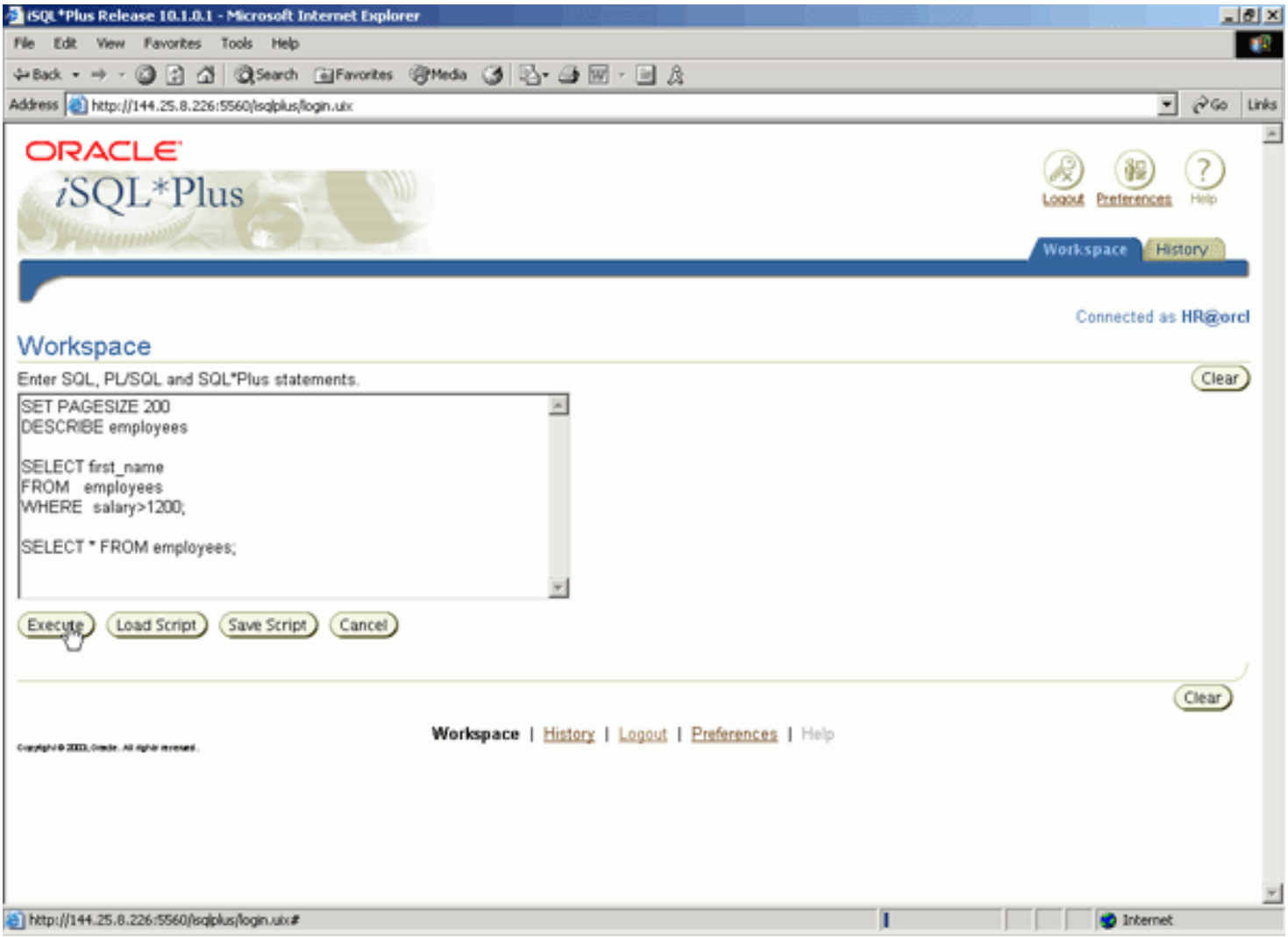
Enter SQL statements and *i* SQL*Plus commands in the Input area as you would in command line SQL*Plus. You can enter multiple commands at once.

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

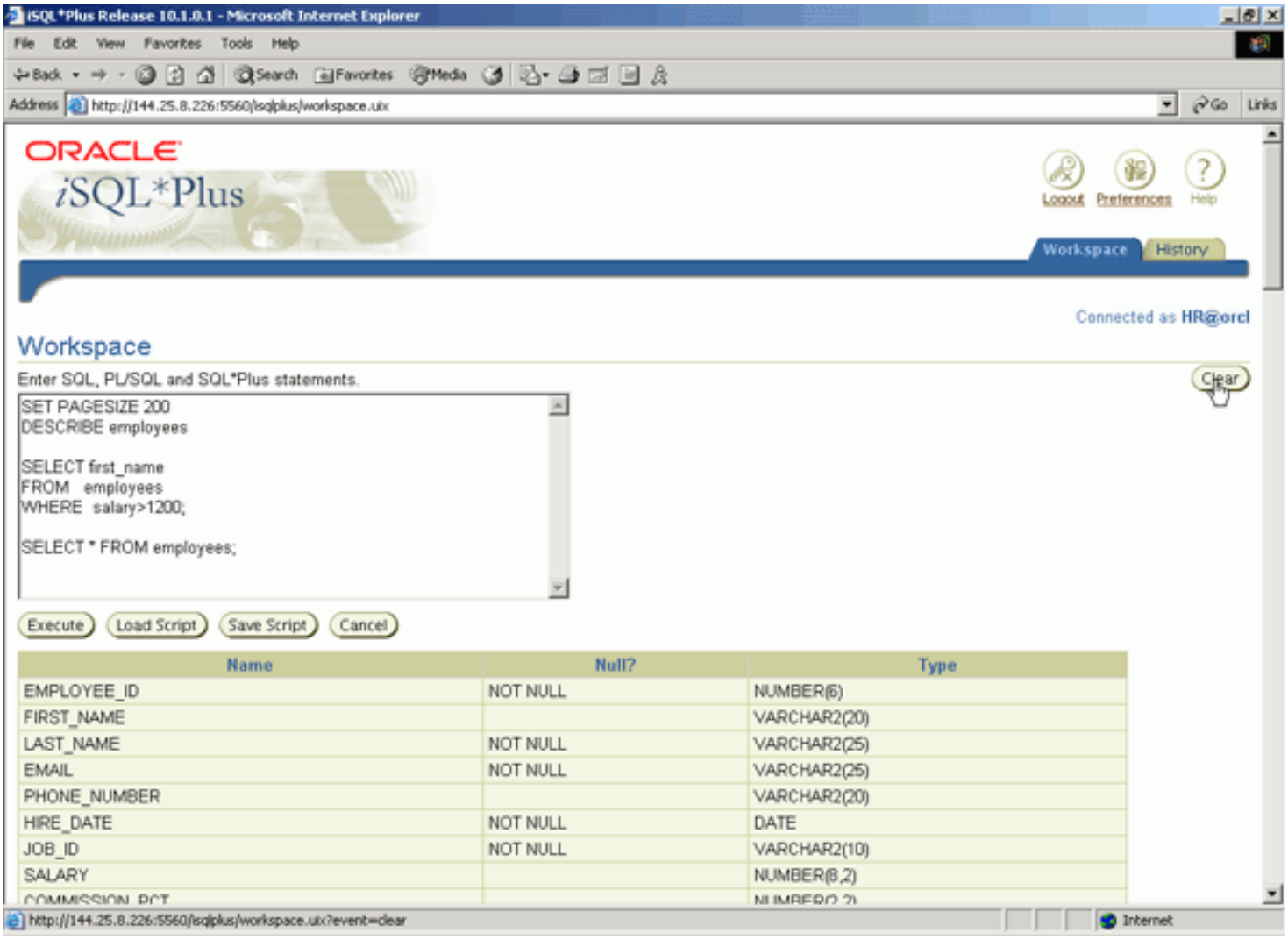
```
SET PAGESIZE 200
DESCRIBE employees

SELECT first_name
FROM   employees
WHERE  salary>1200;

SELECT * FROM employees;
```



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



Running Nested Scripts

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i SQL*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;
```

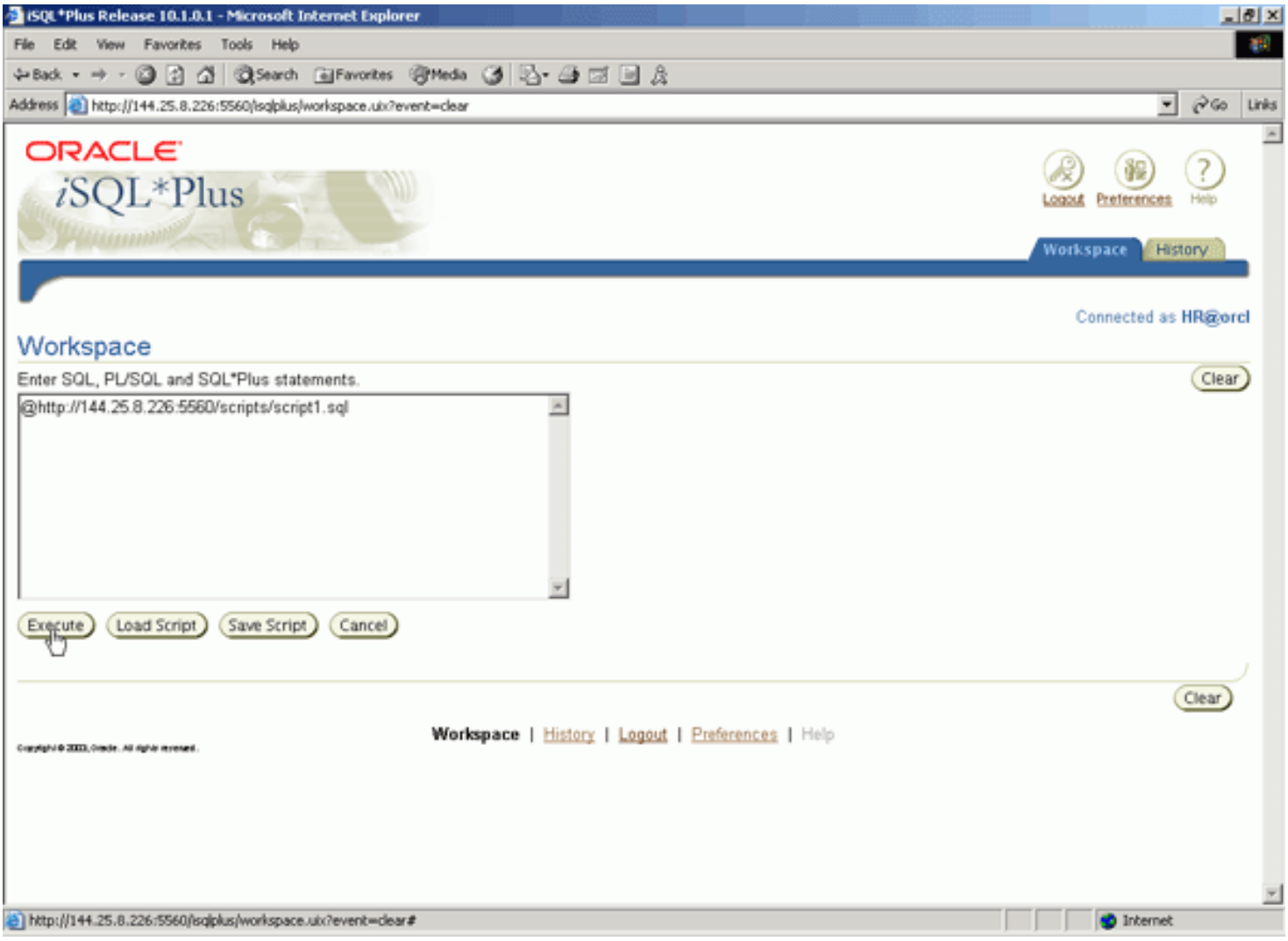
```
@@script2.sql
```

`script2.sql` contains:

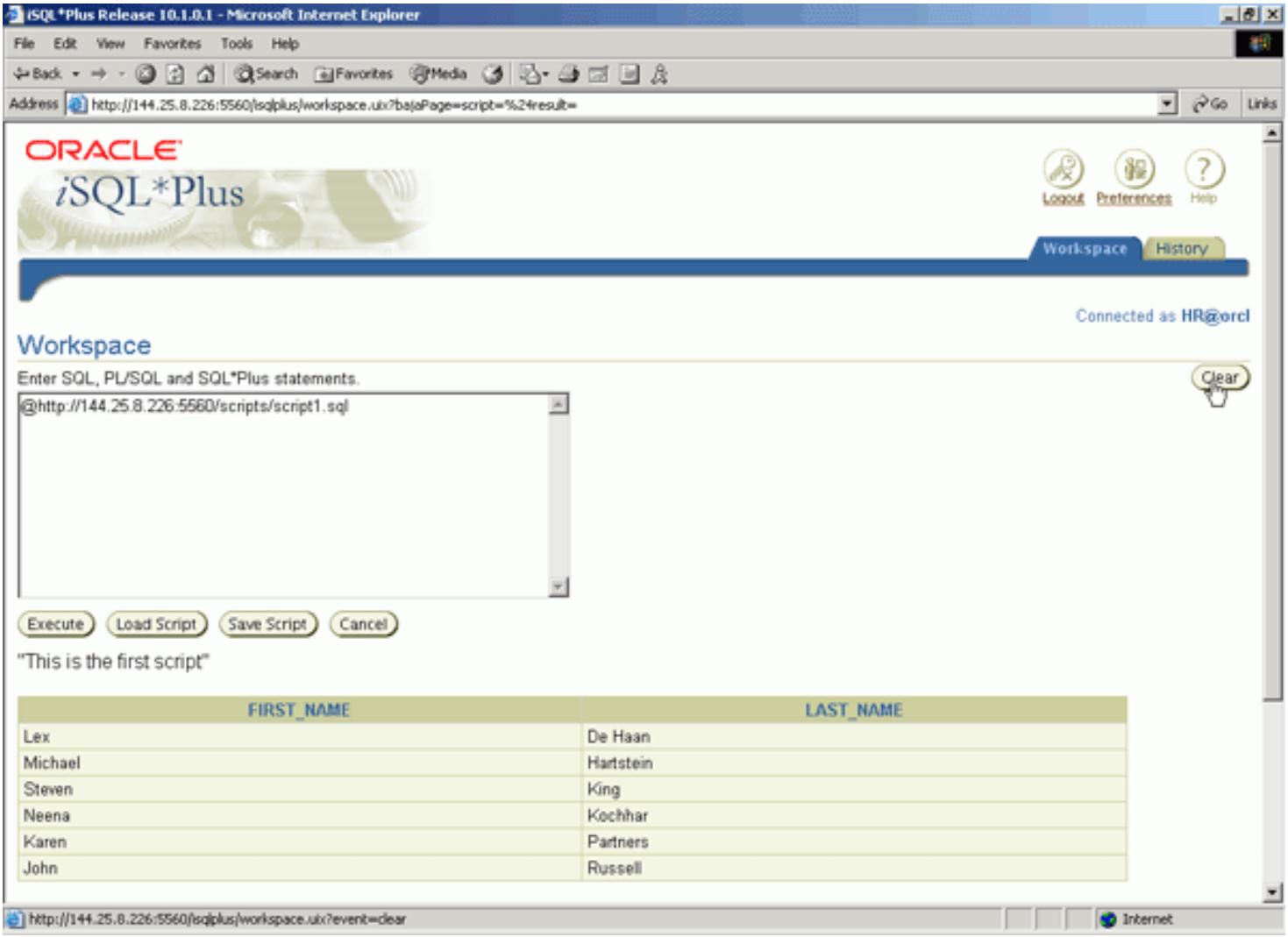
```
PROMPT "This is the second script"
 SHOW USER
 SELECT LAST_NAME, SALARY
 FROM EMP_DETAILS_VIEW
 WHERE SALARY > 12000
 ORDER BY SALARY DESC;
```

☐ **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** .



Substitution Variables

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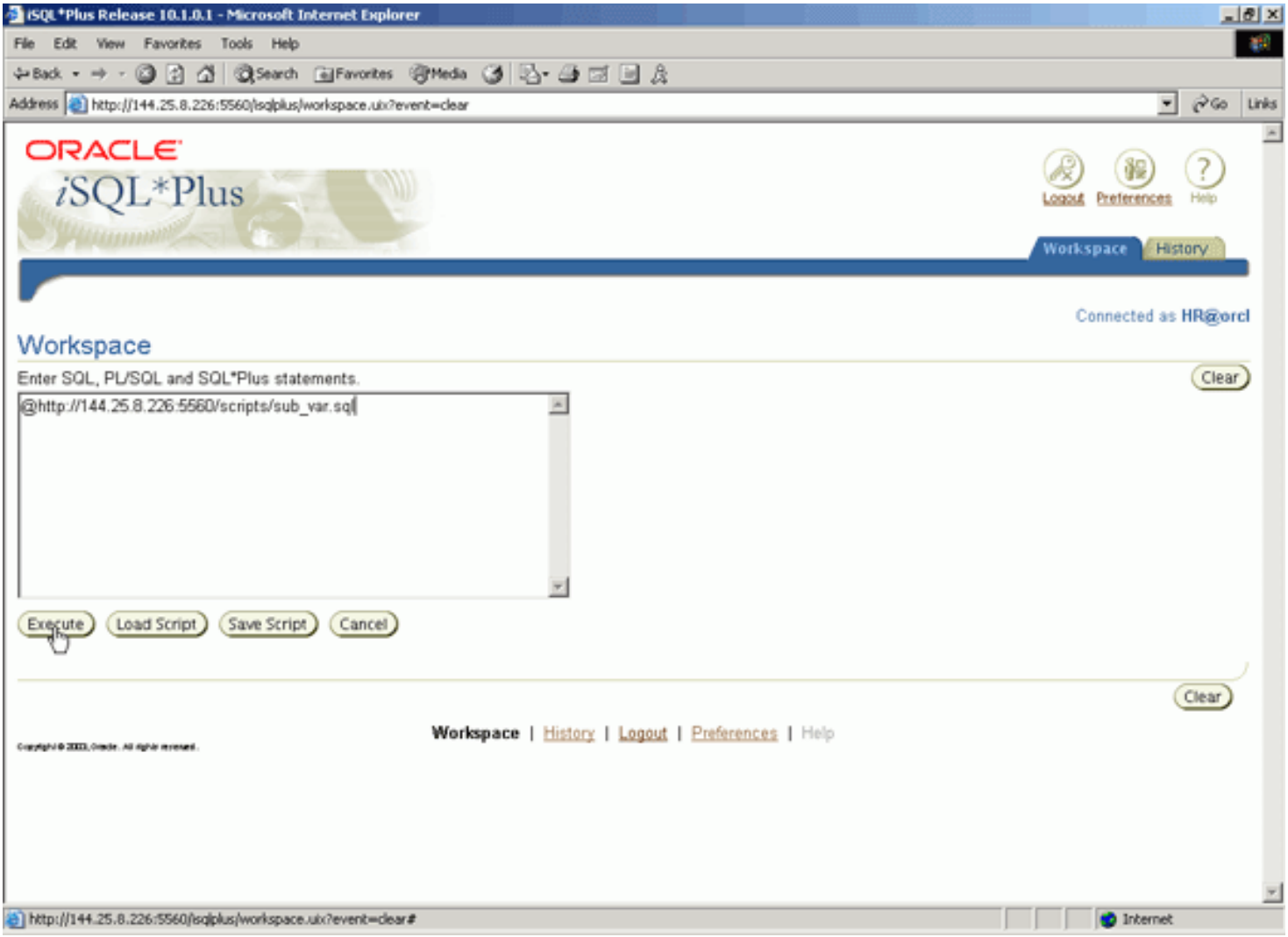
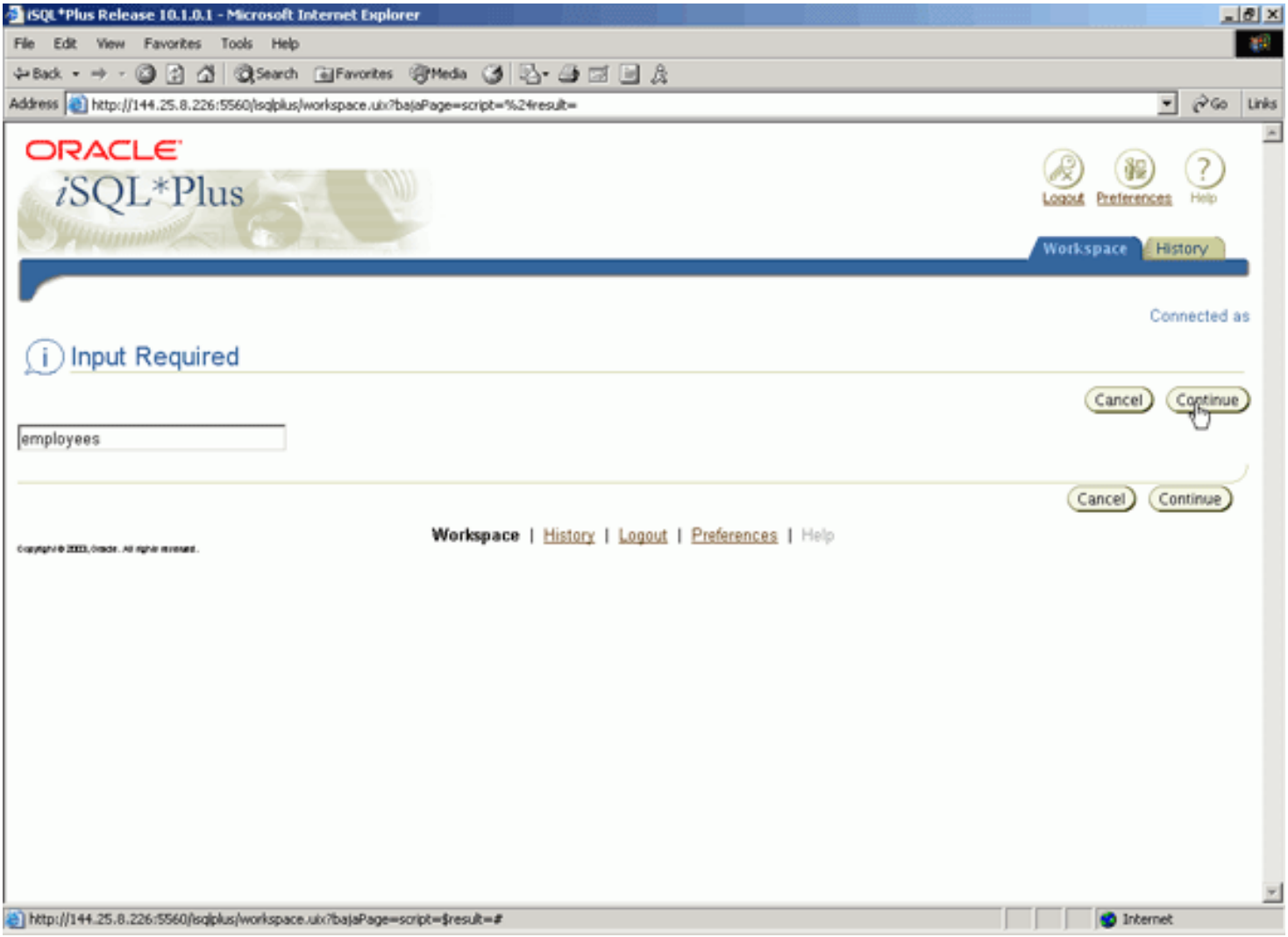
i SQL*Plus prompts you for values for substitution variables in your scripts.

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

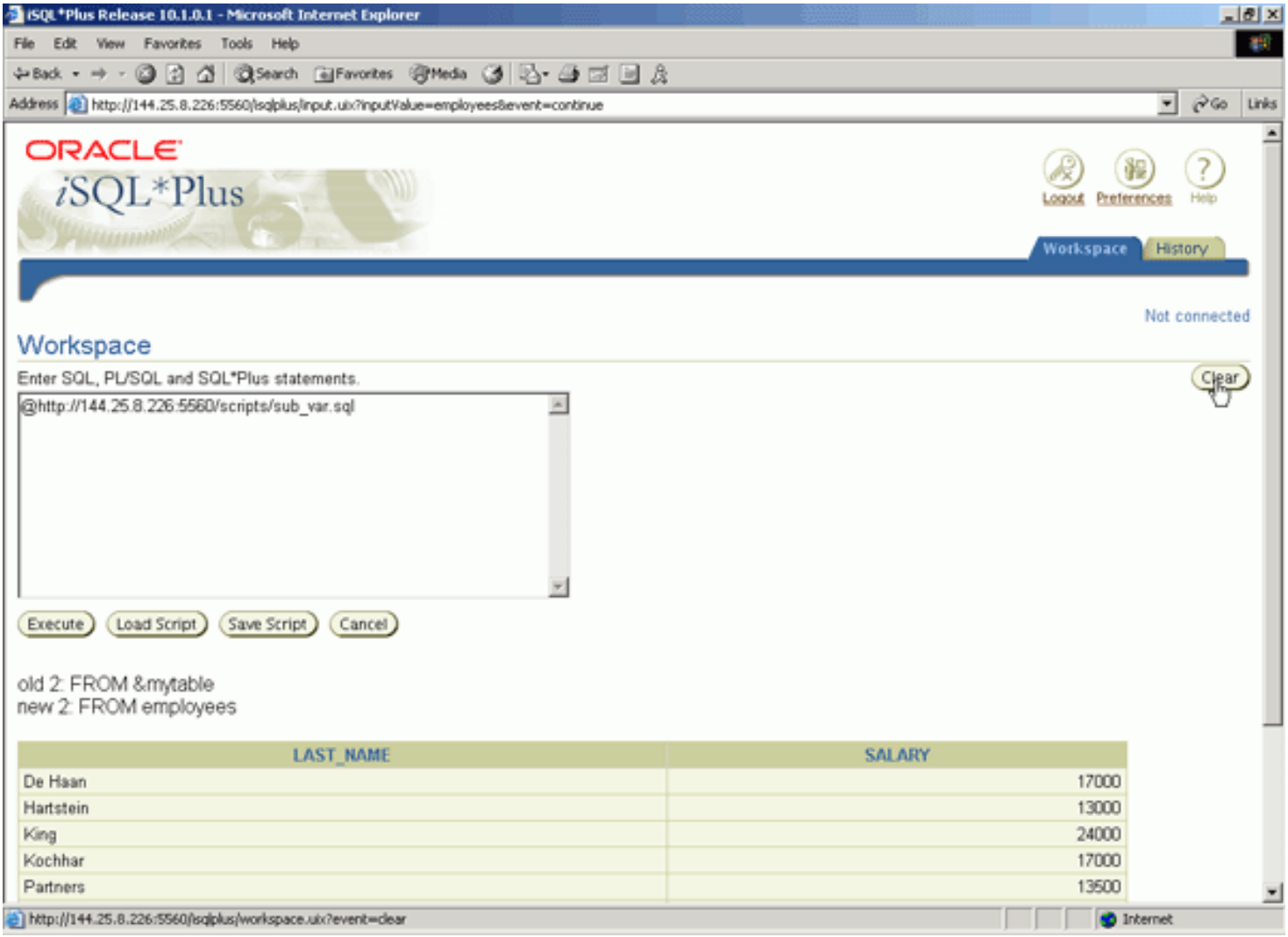
@http://<hostname>:5560/scripts/sub_var.sql



☐ **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** .



Prompting for Values

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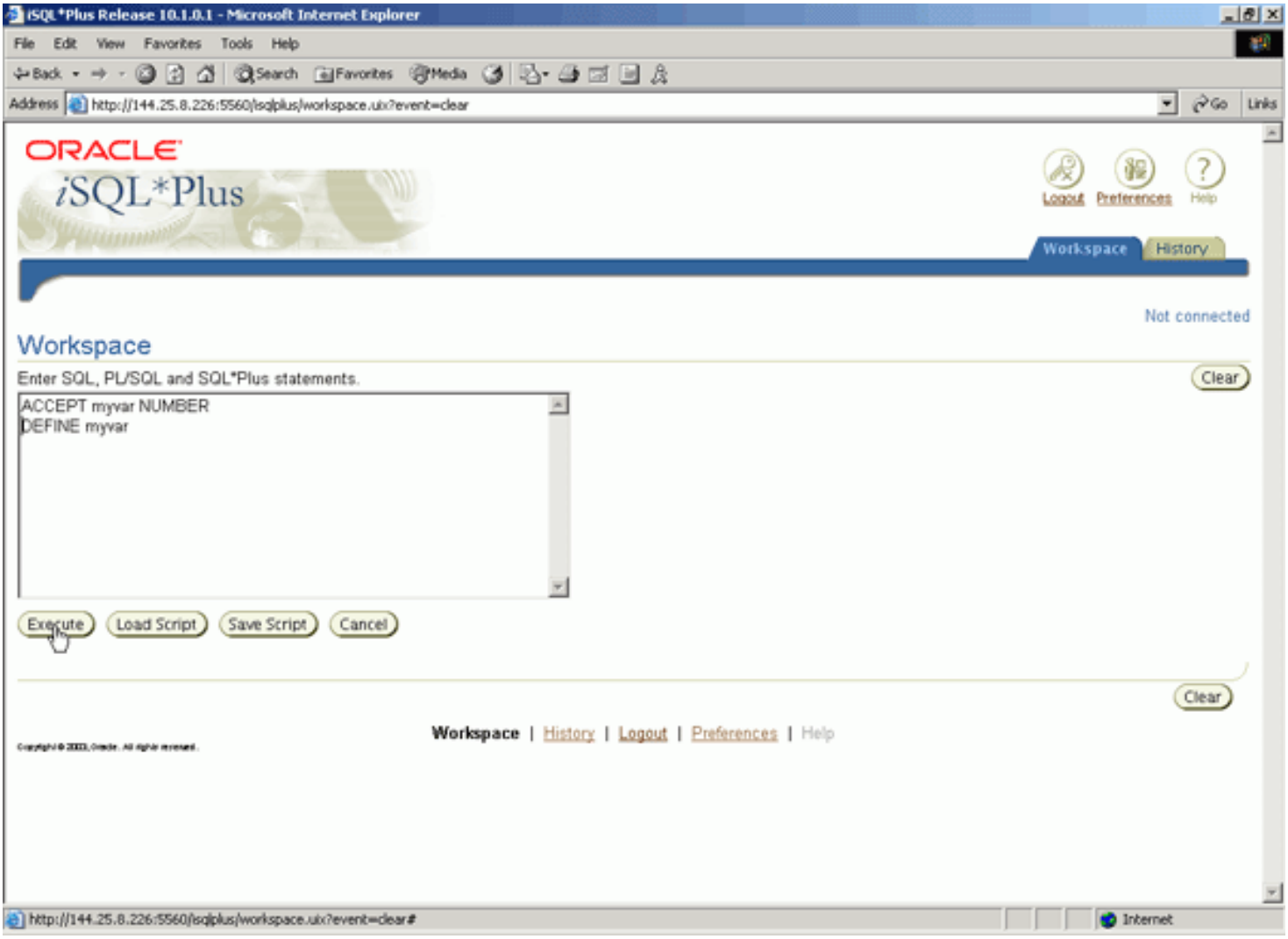
i SQL*Plus prompts for values, as it does for (&) substitution variables, for the:

- 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

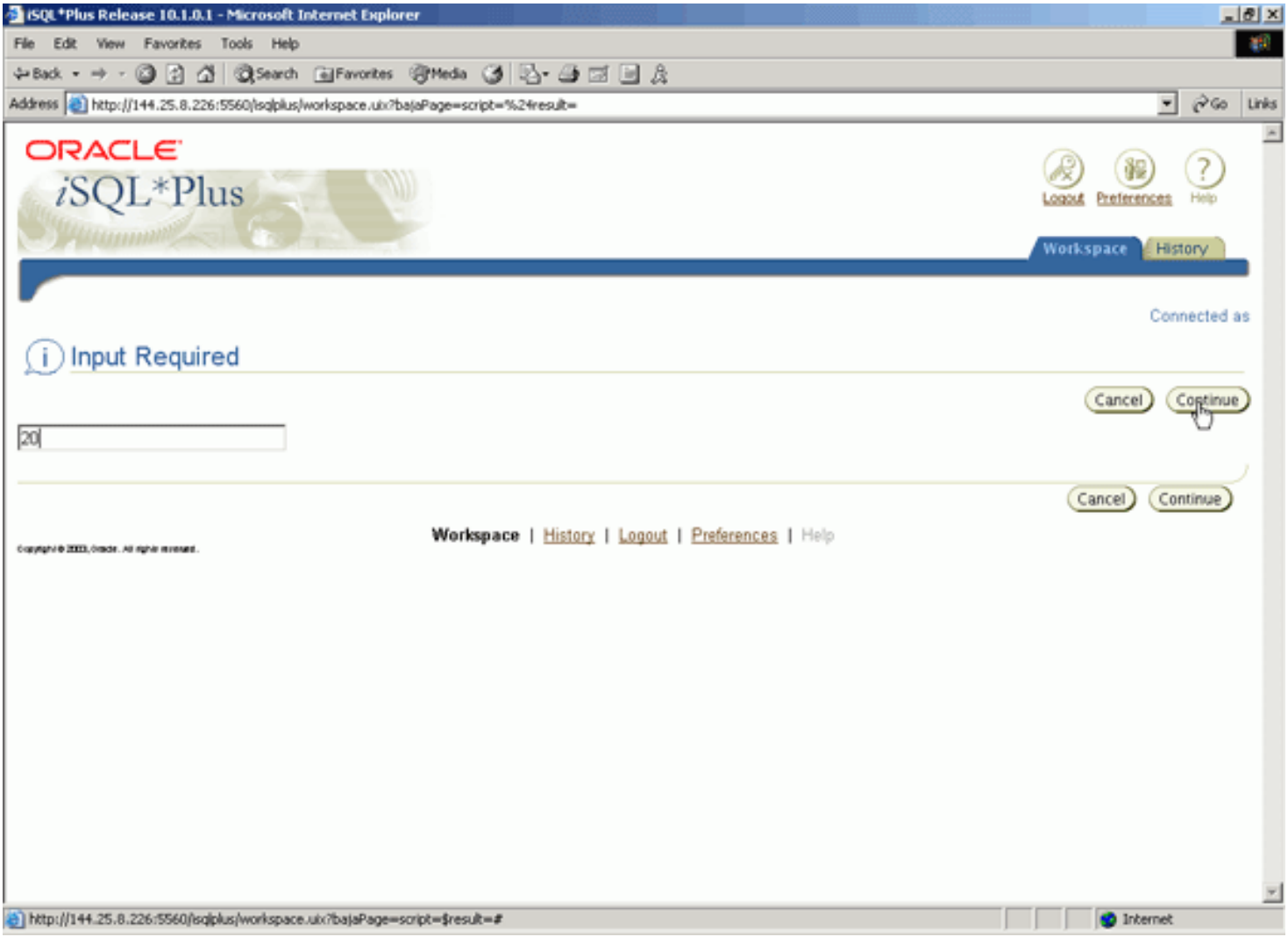
The following example uses an ACCEPT command. The same user interaction occurs for the other commands listed above.

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

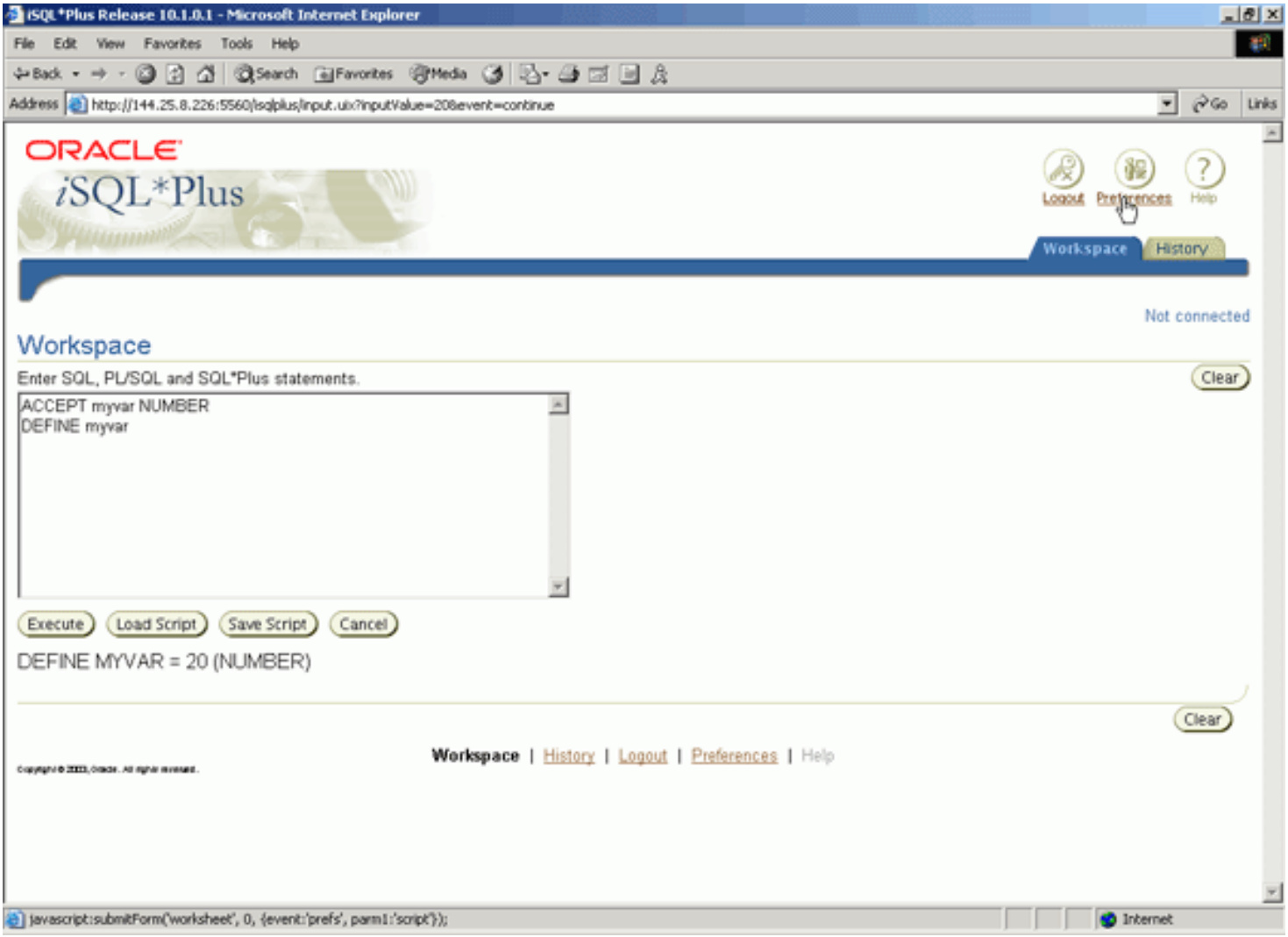
ACCEPT myvar NUMBER
DEFINE myvar



☐ **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.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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)
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