

UNIX

Lesson 19: Database connectivity

Lesson Objectives



- At the end of the session you will be able to understand:
 - Connecting to a database
 - Executing stored procedure
 - Error handling



Profile Variable



▲ Connecting to Database

A database is a collection of <u>information</u> that is organized so that it can easily be accessed, managed, and updated. In one view, databases can be classified according to types of content: bibliographic, full-text, numeric, and images.

Oracle Concepts - The SQL*Plus Command Line Interface

SQL*Plus also comes with a command line interface. This is the interface you use when working from the command line. To start SQL*Plus at the command line you must do the following:

If connecting to a local database you must set the ORACLE_SID environment parameter to the name of your database. Here is an example of doing this in Windows, followed by an example of setting the ORACLE_SID in UNIX (as well as Oracle Home and path information so Unix can find the binaries

Profile Variable



Windows:

C:>Set ORACLE_SID=FLP_DB

UNIX/Linux:

export ORACLE_SID=FLP_DB
export ORACLE_HOME=/oracle/product/10g/db_1
PATH=\$PATH:\$ORACLE HOME/bin

2. Next, we start SQL*Plus with the sqlplus command. When starting SQL plus include the user name that you wish to connect to. Here are examples of the use of this command:

C:\>sqlplus scott

SQL*Plus: Release 10.1.0.2.0 - Production on Sun Feb 20 11:28:13 2005 Copyright (c) 1982, 2004, Oracle. All rights reserved.

Enter password: *******

Connected to: Oracle Database 10g Enterprise Edition Release 10.1.0.2.0 - Production With the Partitioning, OLAP and Data Mining options

SQL>

Sample Unix script



```
----ora_connect_eg.sh----
#!/bin/sh
user="scott"
pass="tiger"
var="$1"
sqlplus -S $user/$pass <<EOF
SELECT * FROM DEPT WHERE DEPTNO=$var;
exit;
EOF
Output
$ ksh ora_connect_eg.sh 10
  DEPTNO DNAME LOC
    10 ACCOUNTING NEW YORK
$
```

Calling oracle stored Procedure.



```
sqlplus -s scott@ftp_db/tiger<<END
execute test_proc(132,'raj');
commit;
exit;
END</pre>
```

Error handling using stored Procedure.



DECLARE

Declaration section

BEGIN

Exception section

EXCEPTION

WHEN ex_name1 THEN

-Error handling statements

WHEN ex_name2 THEN

-Error handling statements

WHEN Others THEN

-Error handling statements

END;





```
---Procedure 1
PROCEDURE financial_review
IS
BEGIN
calc_profits (1996);
calc_expenses (1996);
DECLARE
v_str VARCHAR2(1);
BEGIN
v_str := 'abc';
END;
EXCEPTION
WHEN OTHERS
THEN
log_error;
END;
---Procedure 2
PROCEDURE calc_expenses
IS BEGIN
EXCEPTION
WHEN NO_DATA_FOUND
THEN
NULL;
END;
```

SUMMARY

- In this lesson, you have learnt:
 - Connecting data base using script
 - Calling stored procedures

Review Questions

Question 1: How to form a connection to a database from script?



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