

Names: IRAGENA SHEMA Cedrick
ID: 24766

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PL/SQL: ORACLE DATABASE

Overview

This report outlines the steps taken to complete the Oracle Pluggable Database (PDB) assignment which involved the creation, management, and deletion of PDBs using SQL*Plus and Oracle Enterprise Manager (OEM). The tasks were executed successfully, including troubleshooting errors during configuration. Screenshots have been provided for evidence of work.

Task 1: Create a New Pluggable Database (PDB)

Objective: Create a PDB with the format
FirstTwoLettersOfFirstName_pdb_StudentID.

Database Created: ce_pdb_24766

Admin Username: cedrick_plsqlauca_24766

Password: shemac

File Location: Custom path provided using FILE_NAME_CONVERT

SQL Steps:

```
CREATE PLUGGABLE DATABASE ce_pdb_24766
```

```
ADMIN USER cedrick_plsqlauca_24766 IDENTIFIED BY shemac
```

ROLES = (DBA)

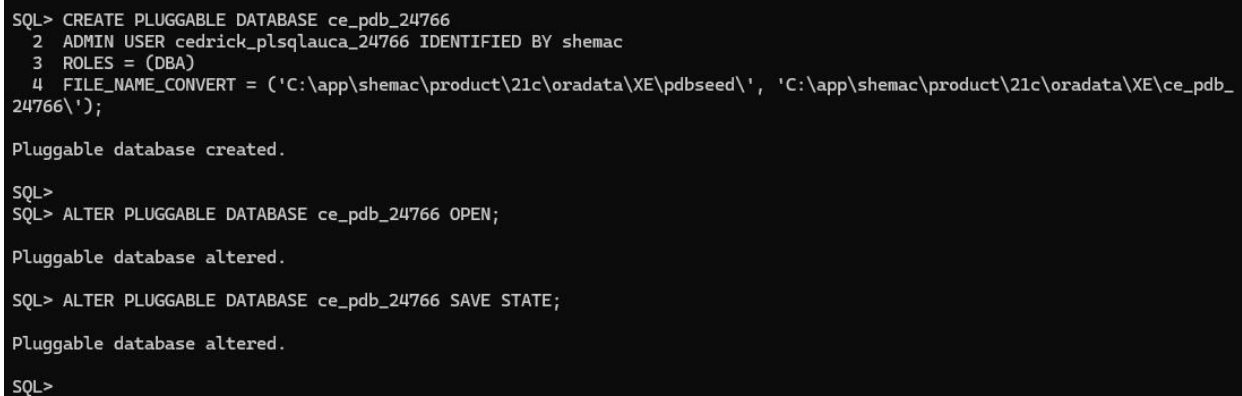
FILE_NAME_CONVERT = ('...pdbseed\','...ce_pdb_24766\');

ALTER PLUGGABLE DATABASE ce_pdb_24766 OPEN;

ALTER PLUGGABLE DATABASE ce_pdb_24766 SAVE STATE;

The database was successfully created, opened, and saved in the persistent open state.

Screenshot:



```
SQL> CREATE PLUGGABLE DATABASE ce_pdb_24766
  2 ADMIN USER cedrick_plsqlauca_24766 IDENTIFIED BY shemac
  3 ROLES = (DBA)
  4 FILE_NAME_CONVERT = ('C:\app\shemac\product\21c\oradata\XE\pdbseed\','C:\app\shemac\product\21c\oradata\XE\ce_pdb_
24766\');

Pluggable database created.

SQL>
SQL> ALTER PLUGGABLE DATABASE ce_pdb_24766 OPEN;

Pluggable database altered.

SQL> ALTER PLUGGABLE DATABASE ce_pdb_24766 SAVE STATE;

Pluggable database altered.

SQL>
```

Task 2: Create and Delete a PDB

Objective: Create and delete a second PDB following the naming format:

FirstTwoLettersOfFirstName_to_delete_pdb_StudentID

Database Created: ce_to_delete_pdb_24766

Admin Username: cedrick_delete

Password: shemac

SQL Steps:

```
CREATE PLUGGABLE DATABASE ce_to_delete_pdb_24766  
  ADMIN USER cedrick_delete IDENTIFIED BY shemac  
  ROLES = (DBA)  
FILE_NAME_CONVERT = ('...pdbseed\','...ce_to_delete_pdb_24766\');
```

Attempted to close before deletion (error encountered)

```
DROP PLUGGABLE DATABASE ce_to_delete_pdb_24766 INCLUDING DATAFILES;
```

Issue Encountered:

ORA-65020: pluggable database CE_TO_DELETE_PDB_24766 already closed

This error occurred when trying to close a PDB that was already in a closed state. It was resolved by directly issuing the DROP PLUGGABLE DATABASE command without attempting to close it again.

Status: Created and deleted successfully after resolving the close issue.

Screenshot: created.

```
SQL> CREATE PLUGGABLE DATABASE ce_to_delete_pdb_24766  
  2 ADMIN USER cedrick_delete IDENTIFIED BY shemac  
  3 ROLES = (DBA)  
  4 FILE_NAME_CONVERT = ('C:\app\shemac\product\21c\oradata\XE\pdbseed\','C:\app\shemac\product\21c\oradata\XE\ce_to_d  
elete_pdb_24766\');  
  
Pluggable database created.  
  
SQL> ALTER PLUGGABLE DATABASE ce_to_delete_pdb_24766 OPEN;  
  
Pluggable database altered.
```

Screenshot: deleted by dropping the pluggable database.

```
SQL> ALTER PLUGGABLE DATABASE ce_to_delete_pdb_24766 CLOSE IMMEDIATE;  
  
Pluggable database altered.  
  
SQL> DROP PLUGGABLE DATABASE ce_to_delete_pdb_24766 INCLUDING DATAFILES;  
  
Pluggable database dropped.  
  
SQL> |
```

Task 3: Oracle Enterprise Manager (OEM)

Objective: Configure and access Oracle Enterprise Manager and take a screenshot of the dashboard.

Steps Taken:

Verified HTTPS port with `DBMS_XDB_CONFIG.GETHTTPSPORT`

Attempted to set port to 5500 and 5501, but both failed due to port conflicts:

Error 1: ORA-12542: TNS:address already in use

Error 2: ORA-44718: Port conflict in XDB Configuration file

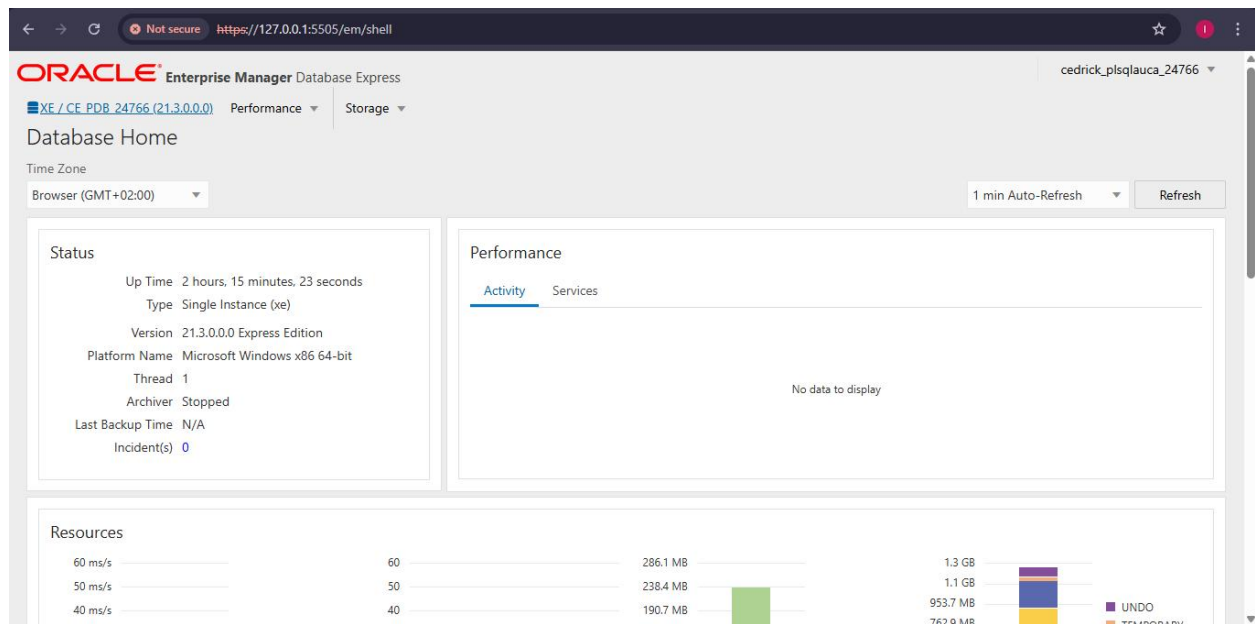
Resolution:

Successfully changed the HTTPS port to 5505, which was accepted and verified.

`EXEC DBMS_XDB_CONFIG.SETHTTPSPORT(5505);`

Status: OEM configured and accessible on port 5505

Screenshot:



Issues Encountered and How I Solved Them

Issue	Error Message	Solution
Trying to close a PDB already closed	ORA-65020	Skipped the close step and directly dropped the PDB
Port conflict when setting HTTPS port	ORA-12542, ORA-44718	Changed to an unused port (5505), which worked

Conclusion

All tasks were successfully completed:

A new PDB (ce_pdb_24766) was created and configured correctly.

A second PDB (ce_to_delete_pdb_24766) was created and deleted as required. Oracle Enterprise Manager was successfully configured after resolving port conflicts.