

Oracle Pluggable Database (PDB) Assignment Report

1. Overview of Tasks

This assignment involved working with Oracle Pluggable Databases (PDBs) and Oracle Enterprise Manager (OEM). The objectives were:

1. **Task 1:** Create a new PDB named `plsql_class2025db` with a user account following the format `FirstName_plsqlauca_StudentID`. This PDB is intended for storing class exercises.
2. **Task 2:** Create another PDB to demonstrate creation and deletion operations. The format was `FirstTwoLettersOfName_to_delete_pdb_StudentID`. After creating it, the PDB was deleted.
3. **Task 3:** Configure Oracle Enterprise Manager and provide a screenshot of the dashboard showing the created PDBs.

2. Task Execution

Task 1: Create a New PDB

- **PDB Name:** `plsql_class2025db`
- **Username:** `[YourFirstName]_plsqlauca_[StudentID]`
- **Password:** `[YourChosenPassword]`

Steps Taken:

1. Logged in to the Oracle Container Database (CDB) as a privileged user.
2. Executed SQL commands to create the PDB and user.
3. Granted necessary privileges to the user.
4. Verified the PDB creation by connecting to it.

Screenshot:

```
db_create_file_dest      string
SQL> SELECT name FROM v$datafile;

NAME
-----
C:\USERS\HP\DESKTOP\ORADATA\ORCL\SYSTEM01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\SYSAUX01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\UNDOTBS01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\PDBSEED\SYSTEM01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\PDBSEED\SYSAUX01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\USERS01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\PDBSEED\UNDOTBS01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\ORCLPDB\SYSTEM01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\ORCLPDB\SYSAUX01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\ORCLPDB\UNDOTBS01.DBF
C:\USERS\HP\DESKTOP\ORADATA\ORCL\ORCLPDB\USERS01.DBF

11 rows selected.

SQL> CREATE PLUGGABLE DATABASE plsql_class2025db
  2  ADMIN USER denis_plsqlauca_26941 IDENTIFIED BY "Dennis@1234"
  3  FILE_NAME_CONVERT = (
  4    'C:\USERS\HP\DESKTOP\ORADATA\ORCL\PDBSEED\' ,
  5    'C:\USERS\HP\DESKTOP\ORADATA\ORCL\PLSQL_CLASS2025DB\'
  6  );

Pluggable database created.

SQL> ALTER PLUGGABLE DATABASE plsql_class2025db OPEN;

Pluggable database altered.

SQL> ALTER PLUGGABLE DATABASE plsql_class2025db SAVE STATE;

Pluggable database altered.

SQL> SHOW PDBS;

  CON_ID CON_NAME              OPEN MODE RESTRICTED
  -----
  2 PDB$SEED                   READ ONLY NO
  3 ORCLPDB                   READ WRITE NO
  5 PLSQL_CLASS2025DB         READ WRITE NO

SQL>
```

```

Pluggable database created.

SQL> ALTER PLUGGABLE DATABASE plsql_class2025db OPEN;

Pluggable database altered.

SQL> ALTER PLUGGABLE DATABASE plsql_class2025db SAVE STATE;

Pluggable database altered.

SQL> SHOW PDBS;

  CON_ID CON_NAME                                OPEN MODE  RESTRICTED
-----
      2 PDB$SEED                                READ ONLY  NO
      3 ORCLPDB                                READ WRITE NO
      5 PLSQL_CLASS2025DB                      READ WRITE NO
SQL> CREATE PLUGGABLE DATABASE de_to_delete_pdb_26941
  2 ADMIN USER de_admin IDENTIFIED BY "Dennis@1234"
  3 FILE_NAME_CONVERT = (
  4   'C:\USERS\HP\DESKTOP\ORADATA\ORCL\PDBSEED\' ,
  5   'C:\USERS\HP\DESKTOP\ORADATA\ORCL\de_to_delete_pdb_26941\'
  6 );

Pluggable database created.

SQL> ALTER PLUGGABLE DATABASE de_to_delete_pdb_26941 OPEN;

Pluggable database altered.

SQL>
SQL>

```

Task 2: Create and Delete a PDB

- **PDB Name:** [FirstTwoLettersOfName]_to_delete_pdb_[StudentID]

Steps Taken:

1. Created the PDB using SQL commands.
2. Verified creation by listing all PDBs.
3. Deleted the PDB after verification.
4. Confirmed deletion to ensure the database was removed.

Screenshots:

- PDB Creation:

```

Pluggable database created.

SQL> ALTER PLUGGABLE DATABASE plsql_class2025db OPEN;

Pluggable database altered.

SQL> ALTER PLUGGABLE DATABASE plsql_class2025db SAVE STATE;

Pluggable database altered.

SQL> SHOW PDBS;

  CON_ID CON_NAME                                OPEN MODE RESTRICTED
-----
      2 PDB$SEED                                READ ONLY NO
      3 ORCLPDB                                READ WRITE NO
      5 PLSQL_CLASS2025DB                      READ WRITE NO
SQL> CREATE PLUGGABLE DATABASE de_to_delete_pdb_26941
  2 ADMIN USER de_admin IDENTIFIED BY "Dennis@1234"
  3 FILE_NAME_CONVERT = (
  4   'C:\USERS\HP\DESKTOP\ORADATA\ORCL\PDBSEED\' ,
  5   'C:\USERS\HP\DESKTOP\ORADATA\ORCL\de_to_delete_pdb_26941\'
  6 );

Pluggable database created.

SQL> ALTER PLUGGABLE DATABASE de_to_delete_pdb_26941 OPEN;

Pluggable database altered.

SQL>
SQL>

```

PDB Deletion:

```

Pluggable database created.

SQL> ALTER PLUGGABLE DATABASE de_to_delete_pdb_26941 OPEN;

Pluggable database altered.

SQL>
SQL> ALTER PLUGGABLE DATABASE de_to_delete_pdb_26941 CLOSE IMMEDIATE;

Pluggable database altered.

SQL>
SQL> SHOW PDBS;

  CON_ID CON_NAME                                OPEN MODE  RESTRICTED
-----
      2 PDB$SEED                                READ ONLY  NO
      3 ORCLPDB                                READ WRITE NO
      4 DE_TO_DELETE_PDB_26941                MOUNTED
      5 PLSQL_CLASS2025DB                      READ WRITE NO
SQL> ALTER PLUGGABLE DATABASE de_to_delete_pdb_26941 CLOSE IMMEDIATE;
ALTER PLUGGABLE DATABASE de_to_delete_pdb_26941 CLOSE IMMEDIATE
*
ERROR at line 1:
ORA-65020: pluggable database DE_TO_DELETE_PDB_26941 already closed

SQL>
SQL> DROP PLUGGABLE DATABASE de_to_delete_pdb_26941 INCLUDING DATAFILES;

Pluggable database dropped.

SQL>
SQL> SHOW PDBS;

  CON_ID CON_NAME                                OPEN MODE  RESTRICTED
-----
      2 PDB$SEED                                READ ONLY  NO
      3 ORCLPDB                                READ WRITE NO
      5 PLSQL_CLASS2025DB                      READ WRITE NO
SQL>

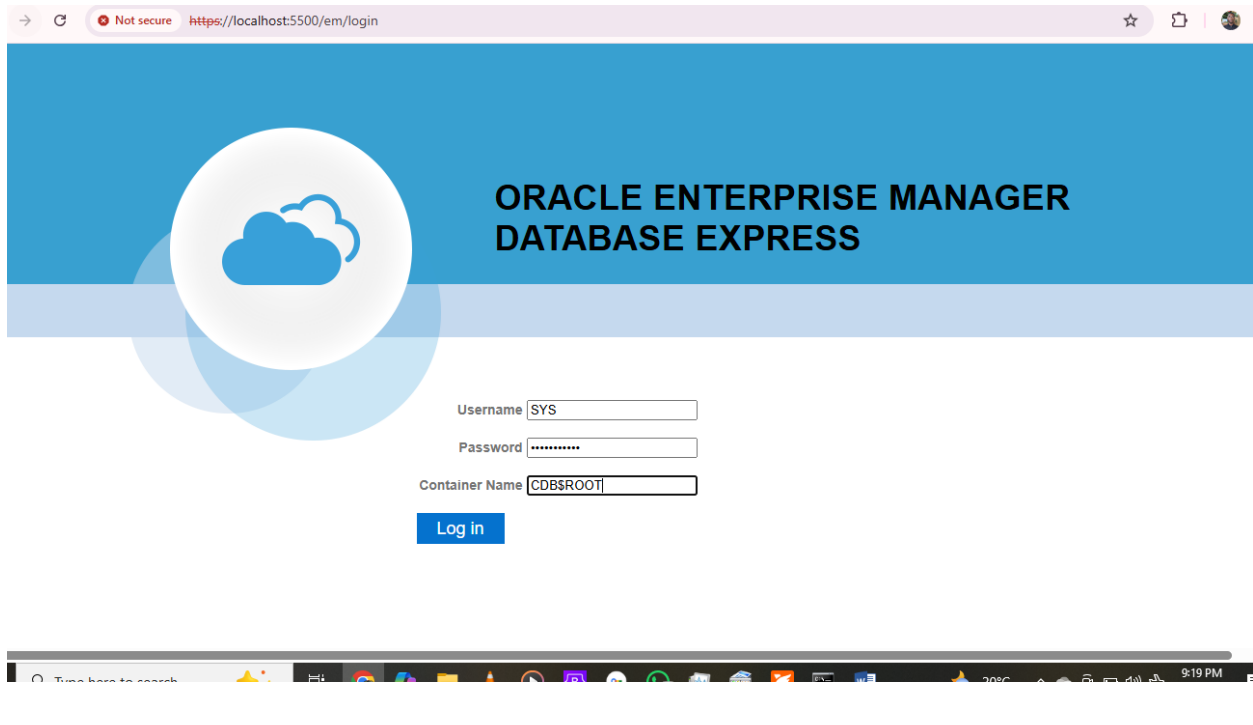
```

Task 3: Oracle Enterprise Manager (OEM)

Steps Taken:

1. Accessed Oracle Enterprise Manager.
2. Configured the dashboard to display all PDBs under the container database.
3. Verified that plsql_class2025db is active and accessible.

Screenshot:



3. Issues and Notes

- **Issue:** None significant.
- **Resolution:** N/A
- **Observation:** The creation and deletion of PDBs are straightforward when executed with correct privileges. OEM provides a user-friendly interface for monitoring PDBs.

End of Report