Assignment about pluggable database

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courses: Database development with PL/SQL

1. Overview of Tasks

The objectives of this assignment were:

- **Task 1:** Create a new Pluggable Database (PDB) named `ce_pdb_28228` and a user `Cedric_plsqlauca_28228` to store all class work.
- **Task 2:** Create and then delete another PDB named `ce_to_delete_pdb_28228` to practice PDB deletion.
- **Task 3:** Configure Oracle Enterprise Manager (OEM) and verify the PDBs visually.

TASK1: create new pluggable database (pdb)

I used `cmd` to connect to my Oracle database using SQL*Plus. After connecting, I began Task 1 by creating a pluggable database named `ce_pdb_28228`. The admin user I created for this PDB is `Cedric_plsqlauca_28228`, following the specified format.

```
SQL> CREATE PLUGGABLE DATABASE ce_pdb_28228
  2  ADMIN USER cedric_plsqlauca_28228 IDENTIFIED BY c
  3  ROLES = (dba)
  4  FILE_NAME_CONVERT = ('C:\ORACLE21C\ORADATA\ORCL\PDBSEED\',
  5                       'C:\ORACLE21C\ORADATA\ORCL\CE_PDB_28228\');

Pluggable database created.
```

After creating it, I opened the PDB, as it will be needed in Task 3 to be displayed in Oracle Enterprise Manager. I then verified that it was created successfully.

```
SQL> ALTER PLUGGABLE DATABASE ce_pdb_28228 OPEN;

Pluggable database altered.

SQL> SELECT name, open_mode FROM v$pdbs;

NAME
--------------------------------------------------------------------------
OPEN_MODE
----------
PDB$SEED
READ ONLY

ORCLPDB
READ WRITE

CE_PDB_28228
READ WRITE
```

Finally, I checked that the user was also created correctly. This completes Task 1.

```
SQL> SELECT username, account_status FROM dba_users
  2  WHERE username = 'CEDRIC_PLSQLAUCA_28228';

USERNAME
--------------------------------------------------------------------------
ACCOUNT_STATUS
------------------------------
CEDRIC_PLSQLAUCA_28228
OPEN
```

Task 2: <u>Create and Delete a PDB</u>

This task involved creating a PDB for the specific purpose of practicing the deletion process.

First, I created the pluggable database named `ce_to_delete_pdb_28228`, following the specified format.

```
SQL> CREATE PLUGGABLE DATABASE ce_to_delete_pdb_28228
  2  ADMIN USER pdbadmin IDENTIFIED BY c
  3  FILE_NAME_CONVERT = ('C:\ORACLE21C\ORADATA\ORCL\PDBSEED\',
  4                        'C:\ORACLE21C\ORADATA\ORCL\CE_TO_DELETE_PDB_28228\');

Pluggable database created.

SQL>
```

After creating the PDB, the next step was to verify that it was created successfully. Before go to the next step
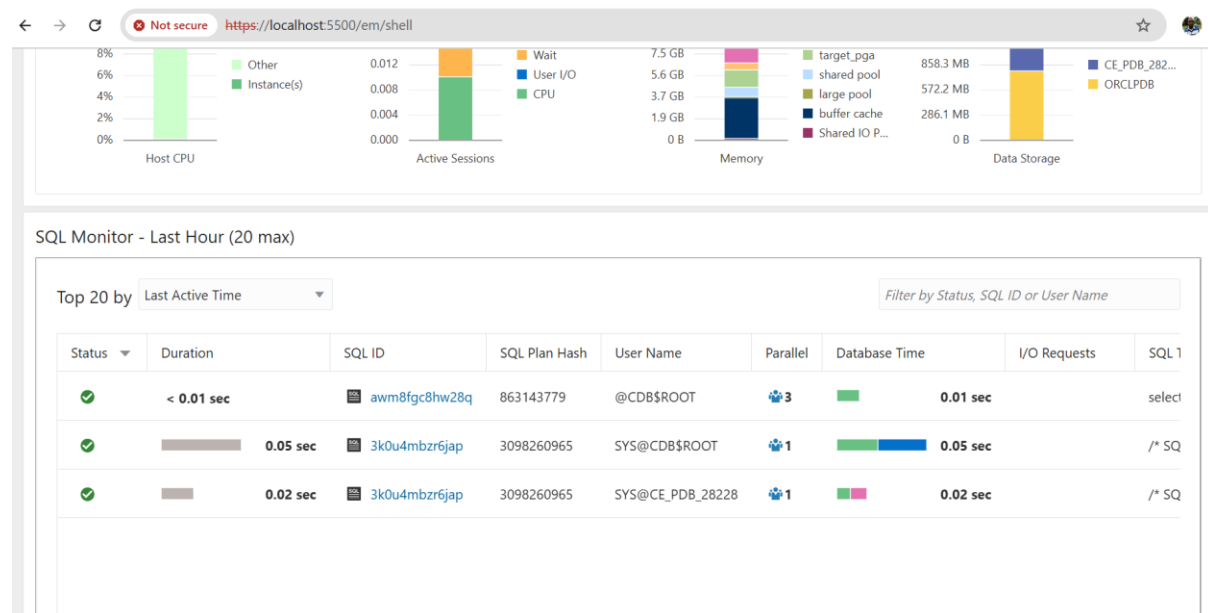
```
SQL> ALTER PLUGGABLE DATABASE ce_to_delete_pdb_28228 OPEN;

Pluggable database altered.

SQL> SELECT name, open_mode FROM v$pdbs WHERE name = 'CE_TO_DELETE_PDB_28228';

NAME
--------------------------------------------------------------------
OPEN_MODE
----------
CE_TO_DELETE_PDB_28228
READ WRITE
```

After creation, I opened the PDB and verified its status and open mode to confirm it was created successfully before proceeding to the deletion phase.

```
SQL> ALTER PLUGGABLE DATABASE ce_to_delete_pdb_28228 CLOSE;

Pluggable database altered.

SQL> DROP PLUGGABLE DATABASE ce_to_delete_pdb_28228 INCLUDING DATAFILES;

Pluggable database dropped.

SQL> SELECT name, open_mode FROM v$pdbs;

NAME
--------------------------------------------------------------------
OPEN_MODE
----------
PDB$SEED
READ ONLY

ORCLPDB
MOUNTED
```

With the PDB successfully created and verified, I proceeded to the deletion phase of the task, dropping the `ce_to_delete_pdb_28228` database.

task3:

The Oracle Enterprise Manager dashboard confirms the successful visual verification required for Task 3, showing both `CE_PDB_28228` actively being monitored

Conclusion

In conclusion, this assignment's objectives for Oracle Pluggable Database (PDB) management were successfully executed and verified. Task 1 involved the creation of the persistent PDB, `ce_pdb_28228`, along with its dedicated administrative user, `cedric_plsqlauca_28228`. Task 2 successfully demonstrated the PDB lifecycle by creating and then safely dropping the temporary database `ce_to_delete_pdb_28228`. The full operational status and verification of these tasks were confirmed via the **Oracle Enterprise Manager (OEM)** dashboard provided in Task 3. For complete transparency, all steps, scripts, and supporting files used during this assignment have been archived and are available above