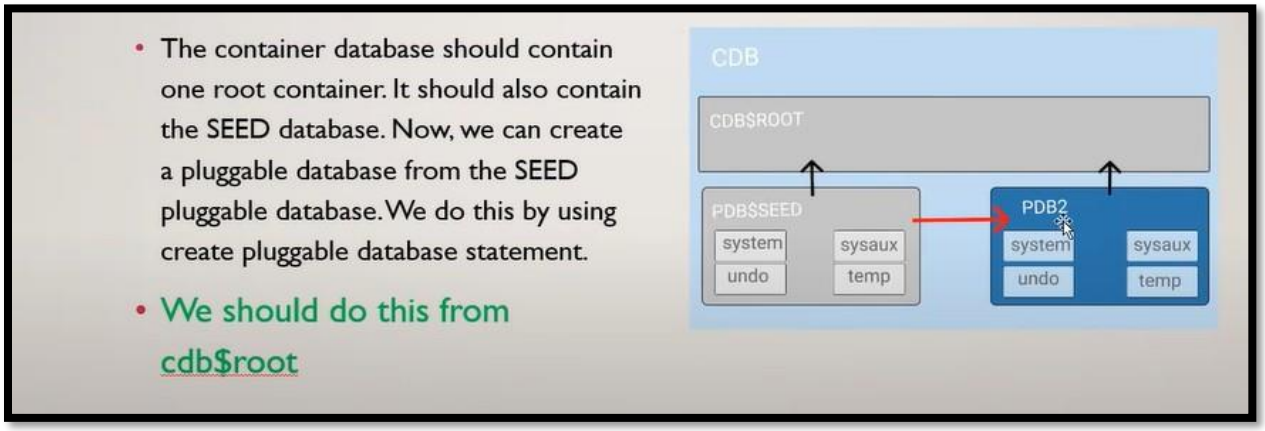
Creating a New PDB from PDB$SEED

PDB$SEED is a template, by using the template a new PDB will be created.



Prechecks:
→ To verify the existing PDB's

SQL> select PDB_ID, PDB_NAME, STATUS, CON_ID, CREATION_TIME from cdb_pdbs;

PDB_ID	PDB_NAME	STATUS	CON_ID	CREATION_TIME
3	PDB	NORMAL	3	25-JUL-23
2	PDB$SEED	NORMAL	2	25-JUL-23

Step 1: Check the location of the CRD files that will also have the PDBSEED, usually it will be located under oradata mount point.

[oracle@oraclelab1 ~]$ **cd /u02/app/oracle/oradata/TESTDB/**

[oracle@oraclelab1 TESTDB]$ **ls -l**

total 2578004
-rw-r-----. 1 oracle oinstall 18726912 Aug 29 19:15 control01.ctl
drwxr-x---. 2 oracle oinstall 104 Jul 25 21:34 pdb
drwxr-x---. 2 oracle oinstall 4096 Jul 25 21:09 pdbseed ← This is the pdbseed
-rw-r ----. 1 oracle oinstall 209715712 Aug 27 13:37 redo01.log
-rw-r ----. 1 oracle oinstall 723525632 Aug 29 19:10 sysaux01.dbf
-rw-r ----. 1 oracle oinstall 954212352 Aug 29 19:11 system01.dbf

Step 2: Create a directory with the new PDB name at the same location that we are creating using PDBSEED

[oracle@oraclelab1 TESTDB]$ **mkdir pdb**

[oracle@oraclelab1 TESTDB]$ **ls -l**

total 2578004
drwxr-x---. 2 oracle oinstall 104 Jul 25 21:34 pdb
drwxr-xr-x. 2 oracle oinstall 6 Aug 29 19:25 pdb1 ← pdb1 is new empty directory
drwxr-x---. 2 oracle oinstall 4096 Jul 25 21:09 pdbseed

Step 3: Now connect to sql plus and create new pdb from root container

[oracle@oraclelab1 TESTDB]$ **sqlplus / as sysdba**

SQL*Plus: Release 19.0.0.0.0 - Production on Tue Aug 29 19:57:59 2023
Version 19.3.0.0.0

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Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> **show con_name**

CON_NAME

CDB$ROOT

SQL> **create pluggable database pdb1 admin user pdb1admin identified by pdb1admin file_name_convert=('/u02/app/oracle/oradata/TESTDB/pdbseed/','/u02/app/oracle/oradata/TESTDB/pdb1');**

Pluggable database created.

Step 4: Validate the newly created PDB

SQL> **select PDB_ID, PDB_NAME, STATUS, CON_ID, CREATION_TIME from cdb_pdbs;**

PDB_ID	PDB_NAME	STATUS	CON_ID	CREATION_TIME
3	PDB	NORMAL	3	25-JUL-23
2	PDB$SEED	NORMAL	2	25-JUL-23
4	PDB1	NEW	4	29-AUG-23

SQL> **show pdbs**

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
2	PDB$SEED	READ ONLY	NO
3	PDB	READ WRITE	NO
4	PDB1	MOUNTED	

SQL**> alter pluggable database pdb1 open;**

Pluggable database altered.

SQL> **show pdbs;**

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
2	PDB$SEED	READ ONLY	NO
3	PDB	READ WRITE	NO
4	PDB1	READ WRITE	NO

SQL> **alter session set container =pdb1;**

Session altered.

SQL> **show pdbs**

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
4	PDB1	READ WRITE	NO

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