**Difference Between Major Components of Traditional Databases and Multitenant Databases CDB/PDB Introduced in Version 12c (文档** **ID 2013529.1)**

**Applies to:**

Oracle Database - Enterprise Edition - Version 12.1.0.1 to 12.1.0.2 [Release 12.1]

Information in this document applies to any platform.

\*\*\*Checked for relevance on 02-Sep-2016\*\*\*

**Purpose**

This document shows difference Between Major Components of Traditional Databases and and Multitenant Databases CDB/PDB Introduced in version 12.1. (NOTE, this document is not applicable to 12.2)

**Scope**

For worldwide support and customers.

**Details**

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| --- | --- | --- |
| Name of Component | Non CDB/PDB database | CDB/PDB database |
| **System Tablespace** | per database | per container database and pluggable database    SQL> show con\_name  CON\_NAME  ------------------------------  CDB$ROOT  SQL> select file\_name from dba\_data\_files;    FILE\_NAME  --------------------------------------------------------------------------------  +DATA/ACDB/DATAFILE/system.286.878671245    SQL> alter session set container=APDB;    Session altered.  SQL> show con\_name  CON\_NAME  ------------------------------  APDB    SQL> select file\_name from dba\_data\_files;    FILE\_NAME  --------------------------------------------------------------------------------  +DATA/ACDB/151BA7C9D292CBD8E0537230B20A6264/DATAFILE/system.297.878675713 |
| **Temproray Tablespace** | per database | Per container database level    SQL> select file\_name from dba\_temp\_files;    FILE\_NAME  --------------------------------------------------------------------------------  +DATA/ACDB/151BA7C9D292CBD8E0537230B20A6264/TEMPFILE/temp.298.878675719    SQL> alter session set container=APDB;    Session altered.    SQL> select file\_name from dba\_temp\_files;    FILE\_NAME  --------------------------------------------------------------------------------  +DATA/ACDB/151BA7C9D292CBD8E0537230B20A6264/TEMPFILE/temp.298.878675719 |
| **Undo Tablespace** | per database instance | Per container database instance    SQL> select tablespace\_name, contents from dba\_tablespaces;    TABLESPACE\_NAME CONTENTS  ------------------------------ ---------  SYSTEM PERMANENT  SYSAUX PERMANENT  UNDOTBS1 UNDO  TEMP TEMPORARY  UNDOTBS2 UNDO  USERS PERMANENT  TEXT PERMANENT    7 rows selected.    SQL> show con\_name    CON\_NAME  ------------------------------  CDB$ROOT  SQL> alter session set container=APDB;    Session altered.    SQL> select tablespace\_name, contents from dba\_tablespaces;    TABLESPACE\_NAME CONTENTS  ------------------------------ ---------  SYSTEM PERMANENT  SYSAUX PERMANENT  TEMP TEMPORARY  USERS PERMANENT  BFTS PERMANENT  BFTS1 PERMANENT  TS\_APDB PERMANENT    You can see there is no undo tablespace at the pdb level. |
| **Control File** | per database | per container database    SQL> select name from v$controlfile ;    NAME  --------------------------------------------------------------------------------  +REDO/ACDB/CONTROLFILE/current.260.878671239    SQL> alter session set container=CDB$ROOT;    Session altered.    SQL> show con\_name    CON\_NAME  ------------------------------  CDB$ROOT  SQL> select name from v$controlfile;    NAME  --------------------------------------------------------------------------------  +REDO/ACDB/CONTROLFILE/current.260.878671239 |
| **SGA** | per database instance | per container database instance      SQL> show sga    Total System Global Area 8589934592 bytes  Fixed Size 2944952 bytes  Variable Size 2030043208 bytes  Database Buffers 6526337024 bytes  Redo Buffers 30609408 bytes  SQL> alter session SET container=APDB;    Session altered.    SQL> show sga    Total System Global Area 8589934592 bytes  Fixed Size 2944952 bytes  Variable Size 2030043208 bytes  Database Buffers 6526337024 bytes  Redo Buffers 30609408 bytes    It will show same sga for pdb since only cdb has sga allocated which is shared by all the pdbs. |
| **Sysaux Tablespace** | per database | per pluggable database      SQL> show con\_name    CON\_NAME  ------------------------------  CDB$ROOT    SQL> select file\_name from dba\_data\_files;    FILE\_NAME  --------------------------------------------------------------------------------  +DATA/ACDB/DATAFILE/sysaux.288.878671253    SQL> alter session set container=APDB;    Session altered.      SQL> show con\_name    CON\_NAME  ------------------------------  APDB    SQL> select file\_name from dba\_data\_files;    FILE\_NAME  --------------------------------------------------------------------------------  +DATA/ACDB/151BA7C9D292CBD8E0537230B20A6264/DATAFILE/sysaux.296.878675713 |
| **Alert log** | per database instance | per container database instance  <diagnostic\_dest>/diag/rdbms/<CDB NAME>/<CDB INSTANCE>/trace |
| **SPFILE** | per database | per container database |
| **Password file** | per database | per container database |