CDB and PDB

# **CREATE PLUGGABLE DATABASE**

**Purpose**

Use the CREATE PLUGGABLE DATABASE statement to create a pluggable database (PDB).

This statement enables you to perform the following tasks:

* Create a PDB by using the seed as a template

Use the *create\_pdb\_from\_seed* clause to create a PDB by using the seed in the multitenant container database (CDB) as a template. The files associated with the seed are copied to a new location and the copied files are then associated with the new PDB.

* Create a PDB by cloning an existing PDB or non-CDB

Use the *create\_pdb\_clone* clause to create a PDB by copying an existing PDB or non-CDB and then plugging the copy into the CDB. The files associated with the existing PDB or non-CDB are copied to a new location and the copied files are associated with the new PDB.

**Note:**

Creating a PDB by cloning a non-CDB is available starting with Oracle Database 12*c* Release 1 (12.1.0.2).

* Create a PDB by plugging an unplugged PDB or a non-CDB into a CDB

Use the *create\_pdb\_from\_xml* clause to plug an unplugged PDB or a non-CDB into a CDB, using an XML metadata file.

[[Oracle 12c] ORA-65096: invalid common user or role name 오류](https://wookoa.tistory.com/239)   
  
전체적인 구조를 변경해서일까 Oracle 12c를 사용하면서 여러가지 오류에 직면하게 된다. 사용자 생성 방법이나 규칙이 조금 변했다. 일반적인 사용자 생성 스크립트로는 에러에 직면한다.

**ORA-65096: invalid common user or role name**

위의 에러를 해결하기 위한 방법은 두가지가 존재한다. **첫번째**는 생성할 계정명 앞에 'C##' 키워드를 붙여주는 것이며, **두번째**는 예전의 스크립트 방식 그대로 생성이 가능하도록 설정을 변경하는 방법이다. 딱히 자신의 환경이 연습용이거나 12c의 클라우드 계정을 염두해서 사용할 것이 아니라면 **후자를 추천**한다. 추가로, C## 키워드가 붙는 이유는 12c 버전에 등장하는 CDB, PDB 개념 때문이다.

**-. 계정명 앞에 C## 키워드 추가**

CREATE USER c##wookoa IDENTIFIED BY password  
DEFAULT TABLESPACE USERS  
TEMPORARY TABLESPACE TEMP;

**-. 예전의 스크립트 방식 사용설정**

사용 설정이라고 할 것도 없이, 아래의 스크립트를 수행하면 바로 적용된다.

ALTER SESSION SET "\_ORACLE\_SCRIPT" = TRUE;

오라클 12c로 버전이 올라가면서 새로운 개념들이 많이 등장하는 것 같다. 매뉴얼 없이 바로 사용하기에는 많이 힘겨울 것 같다. 이로써 위와같이 간단한 방법으로 사용자 계정 생성을 이어나갈 수 있다

* PDB 액세스

SQL> alter session set container=PDB1;

Session altered.

SQL> create user test identified by test;

User created.

SQL> grant create session to test;

Grant succeeded.

$ sqlplus test/test;

SQL\*Plus: Release 12.1.0.2.0 Production on Fri Nov 25 16:30:13 2016

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ERROR:

ORA-01017: invalid username/password; logon denied

$ sqlplus test/test@192.168.56.101:1521\/PDB1

SQL\*Plus: Release 12.1.0.2.0 Production on Fri Nov 25 16:32:16 2016

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Connected to:

Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production

With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics

and Real Application Testing options

SQL>

$ sqlplus test/test@pdb1

SQL\*Plus: Release 12.1.0.2.0 Production on Fri Nov 25 16:33:33 2016

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Last Successful login time: Fri Nov 25 2016 16:32:16 +00:00

Connected to:

Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production

With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics

and Real Application Testing options

SQL>

$ sqlplus sys/oracle@pdb1 as sysdba

SQL\*Plus: Release 12.1.0.2.0 Production on Fri Nov 25 16:34:46 2016

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Connected to:

Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production

With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics

and Real Application Testing options

SQL>

$ sqlplus sys/oracle@192.168.56.101:1521\/PDB1 as sysdba

SQL\*Plus: Release 12.1.0.2.0 Production on Fri Nov 25 16:36:06 2016

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Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production

With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics

and Real Application Testing options

SQL>

**데이터 딕셔너리**