

How to manually create 12c database with “create database” statement?

Task: Create database called MoidTB without DBCA

No	Description	Command / Details / Screenshots												
0	Assumptions	DB Name → MoidTB ORACLE_BASE → /u01/app/oracle ORACLE_HOME → /u01/app/oracle/product/12.2.0.1/db_1												
1	Add Database Info in oratab file	cat >> /etc/oratab << EOF MoidTB:/u01/app/oracle/product/12.2.0.1/db_1:N EOF												
2	Set Oracle Environment	. oraenv → MoidTB												
3	Verify	echo \$ORACLE_BASE echo \$ORACLE_HOME echo \$ORACLE_SID												
4	Create directories manually	<table><tr><td>Controlfile</td><td>mkdir -p /u02/oradata/\$ORACLE_SID mkdir -p /u03/oradata/\$ORACLE_SID mkdir -p /u04/oradata/\$ORACLE_SID</td></tr><tr><td>FRA</td><td>mkdir -p /u05/fast_recovery_area/\$ORACLE_SID</td></tr><tr><td>Datafiles</td><td>mkdir -p /u14/oradata/\$ORACLE_SID</td></tr><tr><td>Redo Logs</td><td>mkdir -p /u15/oradata/\$ORACLE_SID mkdir -p /u16/oradata/\$ORACLE_SID mkdir -p /u17/oradata/\$ORACLE_SID</td></tr><tr><td>Backup</td><td>mkdir -p /u99/\$ORACLE_SID/Backup</td></tr><tr><td>Archive</td><td>mkdir -p /u99/\$ORACLE_SID/Archive</td></tr></table>	Controlfile	mkdir -p /u02/oradata/\$ORACLE_SID mkdir -p /u03/oradata/\$ORACLE_SID mkdir -p /u04/oradata/\$ORACLE_SID	FRA	mkdir -p /u05/fast_recovery_area/\$ORACLE_SID	Datafiles	mkdir -p /u14/oradata/\$ORACLE_SID	Redo Logs	mkdir -p /u15/oradata/\$ORACLE_SID mkdir -p /u16/oradata/\$ORACLE_SID mkdir -p /u17/oradata/\$ORACLE_SID	Backup	mkdir -p /u99/\$ORACLE_SID/Backup	Archive	mkdir -p /u99/\$ORACLE_SID/Archive
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4	Create Initialization Parameter File	<pre>cd \$ORACLE_HOME/dbs vi init\$ORACLE_SID.ora i → to go to insert mode</pre> <pre>db_name = 'MoidTB' db_unique_name = 'MoidTB' control_files='/u02/oradata/MoidTB/control01.ctl','/u03/oradata/MoidTB/control02.ctl','/u04/oradata/MoidTB/control03.ctl','/u05/fast_recovery_area/MoidTB/control04.ctl' db_create_file_dest='/u14/oradata/MoidTB' db_create_online_log_dest_1='/u15/oradata/MoidTB' db_create_online_log_dest_2='/u16/oradata/MoidTB' db_create_online_log_dest_3='/u17/oradata/MoidTB' diagnostic_dest='/u01/app/oracle' db_recovery_file_dest='/u05/flash_recovery_area' db_recovery_file_dest_size=4G SGA_MAX_SIZE=600M SGA_TARGET=400M pga_aggregate_target=100M log_archive_dest_1='LOCATION=/u99/MoidTB/Archive' log_archive_format='Arc_%t_%s_%r.arc' processes=500 sessions=1000 open_cursors=1000</pre> <pre>Press ESC → to go to escape mode :wq! → to save and exit out</pre>
5	Create Database script	<pre>cd \$ORACLE_HOME/dbs vi create\$ORACLE_SID.sql i → to go to insert mode</pre> <pre>CREATE DATABASE MoidTB USER SYS IDENTIFIED BY abc123 USER SYSTEM IDENTIFIED BY abc123 LOGFILE GROUP 1 ('/u15/oradata/MoidTB/redo01.log') SIZE 100M, GROUP 2 ('/u16/oradata/MoidTB/redo02.log') SIZE 100M, GROUP 3 ('/u17/oradata/MoidTB/redo03.log') SIZE 100M MAXLOGFILES 5 MAXLOGMEMBERS 5 MAXLOGHISTORY 1 MAXDATAFILES 1000 CHARACTER SET US7ASCII NATIONAL CHARACTER SET AL16UTF16 EXTENT MANAGEMENT LOCAL DATAFILE '/u14/oradata/MoidTB/system01.dbf' SIZE 1000M REUSE AUTOEXTEND ON NEXT 256M MAXSIZE unlimited SYSAUX DATAFILE '/u14/oradata/MoidTB/sysaux01.dbf' SIZE 1000M REUSE AUTOEXTEND ON NEXT 256M MAXSIZE unlimited DEFAULT TABLESPACE USERS DATAFILE '/u14/oradata/MoidTB/users01.dbf' SIZE 512M REUSE AUTOEXTEND ON MAXSIZE unlimited</pre>

		<pre> DEFAULT TEMPORARY TABLESPACE TEMP TEMPFILE '/u14/oradata/MoidTB/temp01.dbf' SIZE 512M REUSE AUTOEXTEND ON NEXT 512M MAXSIZE unlimited UNDO TABLESPACE UNDO DATAFILE '/u14/oradata/MoidTB/undotbs01.dbf' SIZE 256M REUSE AUTOEXTEND ON NEXT 512M MAXSIZE unlimited; </pre> Press ESC → to go to escape mode :wq! → to save and exit out
6	Run the script to create database	<pre> cd \$ORACLE_HOME/dbs . oraenv → MoidTB sqlplus / as sysdba create spfile from pfile; startup nomount @createMoidTB.sql </pre>
7	Run Scripts to build Dictionary Views	<pre> @?/rdbms/admin/catalog.sql @?/rdbms/admin/catproc.sql @?/sqlplus/admin/pupbld.sql exit; </pre>
8	Additinal Items (if necessary)	<pre> Configure Listener Configure tnsnames.ora file Register to appropriate listener </pre>

Hope this helps.

Moid Muhammad