Create Manual Database:-

To create Database in Oracle DB:-
1. Login to oracle user and make entry in .bash_profile about SID (database name)

```
[oracle@sipl-172 ~]$ env | grep ORA
ORACLE_SID=cars
ORACLE_BASE=/orahome/app/oracle
ORACLE_HOME=/orahome/app/oracle/product/19.3.0/db_1
```

2. Create directories with the name of SID on different mountpoints /u01 /u02 /u03
#mkdir -p /u01/{$ORACLE_SID}/
#mkdir -p /u02/{$ORACLE_SID}/
#mkdir -p /u03/{$ORACLE_SID}/

3. Change its ownership as oracle user group by dba
chown -R /u01/{$ORACLE_SID}/
chown -R /u02/{$ORACLE_SID}/
chown -R /u03/{$ORACLE_SID}/

4. Create a database script of sql in /home/oracle (or any path that you want)

```
create database cars
        user sys identified by Xinudaes
        user system identified by Xinudaes
        logfile Group 1 ('/u01/cars/redo1a.log','/u02/cars/redo1b.log')size 100M,
                Group 2 ('/u01/cars/redo2a.log','/u02/cars/redo2b.log')size 100M
        MAXLOGHISTORY 1
        MAXLOGFILES 16
        MAXLOGMEMBERS 3
        CHARACTER SET AL32UTF8
        EXTENT MANAGEMENT LOCAL
        DATAFILE '/u01/cars/system01.dbf'
        SIZE 700M REUSE AUTOEXTEND ON NEXT 10240K MAXSIZE UNLIMITED
        SYSAUX DATAFILE '/u03/cars/sysaux01.dbf'
        SIZE 700M REUSE AUTOEXTEND ON NEXT 10240K MAXSIZE UNLIMITED
        DEFAULT TABLESPACE users
        DATAFILE  '/u02/cars/user.dbf'
        SIZE 500M REUSE AUTOEXTEND ON MAXSIZE UNLIMITED
        DEFAULT TEMPORARY TABLESPACE tempts1
        TEMPFILE '/u02/cars/temp1.dbf' SIZE 50M REUSE AUTOEXTEND ON NEXT 640K
MAXSIZE UNLIMITED
        UNDO TABLESPACE undotbs1
        DATAFILE '/u03/cars/undo.dbf' SIZE 200M REUSE AUTOEXTEND ON NEXT 5120K
MAXSIZE UNLIMITED;
```

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        EXTENT MANAGEMENT LOCAL
        DATAFILE '/u01/cars/system01.dbf'
        SIZE 700M REUSE AUTOEXTEND ON NEXT 10240K MAXSIZE UNLIMITED
        SYSAUX DATAFILE '/u03/cars/sysaux01.dbf'
        SIZE 700M REUSE AUTOEXTEND ON NEXT 10240K MAXSIZE UNLIMITED
        DEFAULT TABLESPACE users
        DATAFILE  '/u02/cars/user.dbf'
        SIZE 500M REUSE AUTOEXTEND ON MAXSIZE UNLIMITED
        DEFAULT TEMPORARY TABLESPACE tempts1
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        UNDO TABLESPACE undotbs1
        DATAFILE '/u03/cars/undo.dbf' SIZE 200M REUSE AUTOEXTEND ON NEXT 5120K MAXSIZE UNLIMITED;
```

5. Create spfile (parameter file) for the database.
#cd /orahome/app/oracle/product/19.3.0/db_1/dbs

#cp init.ora init$ORACLE_SID.ora
Then,
change the necessary parameters in that file.
1. audit_file_dest='$ORACLE_BASE/admin/cars/adump
2.db_recovery_file_dest='$ORACLE_BASE/fast_recovery_area
3.control_files = (/u01/cars/ora_control1, /u01/cars/ora_control2)
4.compatible ='19.0.0'

```
# Change '<ORACLE_BASE>' to point to the oracle base (the one you specify at
# install time)

db_name='cars'
memory_target=1G
processes = 150
audit_file_dest='$ORACLE_BASE/admin/cars/adump'
audit_trail ='db'
db_block_size=8192
db_domain=''
db_recovery_file_dest='$ORACLE_BASE/fast_recovery_area'
db_recovery_file_dest_size=2G
diagnostic_dest='$ORACLE_BASE'
dispatchers='(PROTOCOL=TCP) (SERVICE=ORCLXDB)'
open_cursors=300
remote_login_passwordfile='EXCLUSIVE'
undo_tablespace='UNDOTBS1'
# You may want to ensure that control files are created on separate physical
# devices
control_files = (/u01/cars/ora_control1, /u01/cars/ora_control2)
compatible ='19.0.0'
```

6. Now, create post database creation script.
@$ORACLE_HOME/rdbms/admin/catalog.sql
@$ORACLE_HOME/rdbms/admin/catproc.sql
@$ORACLE_HOME/sqlplus/admin/pupbld.sql
(These 3 scripts we have to run always when we create database)

7.Connect to oracle sql session :
#sqlplus / as sysdba

sql> startup nomount;
This will startup the database without mounting its datafiles and log files.

Sql> @/home/oracle/dbcreate.sql
Locate the location of file where you have database creation script. Now, run that file. Using "@" we can run any sqlscript on local machine.

Sql> @/home/oracle/postdb.sql
After you have created database successfully run the script of post db creation. It will provide necessary views , tables for the database.