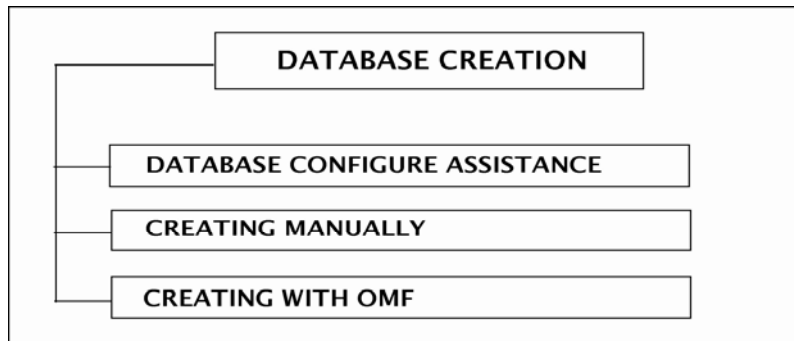# CREATE DATABASE



## [ Create Database Manually ]

**Step 1:**
Oracle software should be installed on the machine where you create database.

**Step 2:**
It is better to fit the *SGA* in real memory rather than using virtual memory. Avoid *paging*.
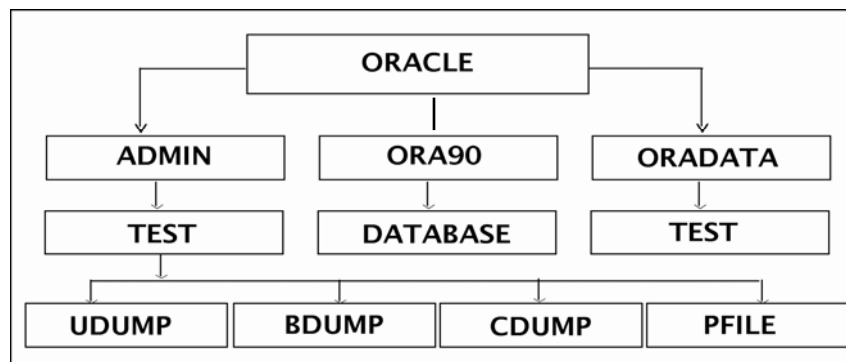
**Step 3:**
Now you decide which drive you store the **datafile, pfile, logfile and controfile**.
Example: choose **E:\**

**Step 4:**
Increase the virtual memory of drive E:\ . Initial size 200 MB maximum size 400 MB.

**Step 5:**
Create the following folder in drive E:\



**Step 6:**
Copy the existing **INIT.ORA** file and configure the file with appropriate change.

**Step 7:**
Save the file. '**E:\ORACLE\ADMIN\PFILE\INITTEST.ORA**' (please use '……..' mark in the path).

**Step 8: (Password file creation)**

Now create the password file using command prompt:

```
C:\>orapwd file=E:\oracle\ora90\database\pwdtest password=admin
entries=10
```

**Step 9: (Instance creation)**

Create the instance using command prompt:

```
C:\>oradim –new –sid test –intpwd admin –maxusers 10 –startmode
auto –pfile E:\oracle\admin\test\pfile\inittest.ora
```
(to delete the service  `oradim –delete –sid test`)

**Step 10: (Oracle base, home and sid creation)**

Now set the oracle base, oracle home and oracle sid using command prompt:
(Oracle should setup in D:\ in this case)

```
C:\>set oracle_base=D:\oracle
C:\>set oracle_home=D:\orcl\ora92
C:\>set oracle_sid=test
C:\>sqlplus/nolog

SQL>connect sys/admin as sysdba
SQL>startup nomount PFILE=E:\oracle\admin\test\pfile\inittest.ora
```

**Step 11: (Database creation)**

```
SQL>
create database test
controlfile reuse
logfile

group 1
     ('E:\oracle\oradata\test\redo1a.log',
      'E:\ oracle\oradata\test\redo1b.log') size 5m,
group 2
     ('E:\oracle\oradata\test\redo2a.log',
      'E:\ oracle\oradata\test\redo2b.log') size 5m

maxlogfiles 4
maxlogmembers 2
maxdatafiles 5
maxinstances 2
maxloghistory 0

datafile 'E:\oracle\oradata\test\system01.dbf' size 100m
undo tablespace utable
```

```
datafile 'E:\oracle\oradata\test\utable01.dbf' size 10m

tempfile 'E:\oracle\oradata\test\temp01.dbf' size 10m

character set we8iso8859p1;
```

**Step 12: (Executing Scripts)**

```
SQL>@D:\oracle\ora90\rdbms\admin\catalog.sql;
SQL>@D:\oracle\ora90\rdbms\admin\catproc.sql;
```

**[ After creating database ]**

```
>  Create tablespace user1 datafile
   'E:\oracle\oradata\test\ncc.dbf' size 1m;
>  Create user user1 identified by user1
        default tablespace user1;
>  Grant connect, resource to user1;
>  Create table test
        (id number(3), name varchar2(10));
>  Connect sys as sysdba;
>  Alter tablespace system add
        datafile 'E:\oracle\oradata\test\u.dbf' size 5m;


>  Desc v$controlfile;
>  Show parameter control_files;
>  Alter database backup
        Control file to trace;
>  Create spfile from
   pfile='E:\oracle\admin\test\pfile\inittest.ora'
```

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