**ADVANCED DATABASE**

**1.create tablespace**

**Creating a tablespace**

create tablespace <tablespacename> datafile <‘datafile\_name.dbf’> size 1m;

**Viewing a tablespace**

Select <tablespace\_name>,<datafile\_name>, <bytes> from dba\_data\_files;

**Creating a table in tablespace**

Create table <table\_name>(<columns in table> <datatype>)tablespace <tablespace\_name>;

**2.create , alter , drop User**

**Creating a new user with password**

create user <username> identified by <password>;

**Creating a new user with password expire**

Create user <username> identified by <password> password expire;

**\*Password expire: if you want to force the user to change the password for the first time the user logs in to the database**.

**Alter user to set password expire**

alter user <username> password EXPIRE;

**TO verify whether user created or not;**

Select <username>, <authentication\_type> from dba\_users;

**Alter user to change password**

ALTER USER <username>IDENTIFIED BY <password>;

**Alter user to lock account**

alter user <username> account lock;

**Alter user to unlock account**

ALTER USER <username> ACCOUNT UNLOCK;

**Alter user to assign profile to user**

Alter user <username> profile <profile\_name>;

**Alter user to set the default role of the user to role:**

ALTER USER <username> DEFAULT ROLE <rolename>;

**Drop user has no schema object**

Drop user <username>;

**Drop user that has schema object**

Drop user <username> CASCADE;

**3.Grant / Revoke privilege to user**

**system privileges are**:

CREATE SESSION

CREATE TABLE

 CREATE VIEW

 CREATE PROCEDURE

 SYSDBA

 SYSOPER

**Object privileges are:**

 INSERT

 UPDATE

 DELETE

 INDEX

 EXECUTE

**Granting privileges to user**

grant <system\_priviliges> or <object\_priviliges> to <user\_name>;

**Granting role to user**

grant <role\_name> to <user\_name>;

**Granting all privileges to role**

Grant all privileges to <rolename>;

**Revoking privileges from user**

REVOKE <system\_privilege>or <object\_privilege> FROM <username>;

**Revoking all privileges from user**

Revoke all privileges from <username>;

**4.Create Role: insert update, delete**

**Creating a Role**

create role <role\_name>;

**set role with password**

SET ROLE <rolename> IDENTIFIED BY <password>;

**For two roles**

SET ROLE <rolename1> IDENTIFIED BY <password>,<rolename2>;

**Granting privileges to role**

Grant <privileges> on <tablename> to <rolename>;

**granting insert,update delete on role**

Grant insert,update,delete on <table\_name> to <role\_name>;

**Assigning role to user**

Grant <rolename> to <username>;

**Alter role: create session**

Alter user <username> grant create session to <rolename>;

**Drop role**

Drop role <rolename>;

**5.Create External Table**

First, place the language.csv file in the C:\loader directory.

Second, log in to the Oracle database using the sysdba user via the SQL\*Plus program:

Enter password: <sysdba\_password>

create directory lang\_external as 'C:\loader';

CREATE TABLE languages(

language\_id Number(3),

language\_name VARCHAR2(30)

)

ORGANIZATION EXTERNAL(

TYPE oracle\_loader

DEFAULT DIRECTORY lang\_external

ACCESS PARAMETERS

(FIELDS TERMINATED BY ',')

LOCATION ('languages.csv')

);

**6.create profile , set profile**

**To create a new user profile**

create profile <profilename> limit failed\_login\_attempts 3

password\_lock\_time 1

sessions\_per\_user 1

idle\_time 5;

**AND**

Create profile <profile\_name> limit session\_per\_user unlimited cpu\_per\_session unlimited cpu\_per\_call 3000 connect\_time 60;

**To assign profile to a user**

alter user <username> profile <profilename>;

**To check profiles assigned to a user**

SELECT USERNAME, PROFILE FROM DBA\_USERS WHERE USERNAME='<username>';

**To check profile parameter values**

SELECT \* FROM DBA\_PROFILES WHERE PROFILE='<PROFILE\_NAME>';

**7.create table in one user profile and allow access to other user for insert , update , delete etc.**

grant insert,update,delete,select on <tablename> to <username>;