

# Database Administration

## LAB – 1&2

Name : Koduri Gokul

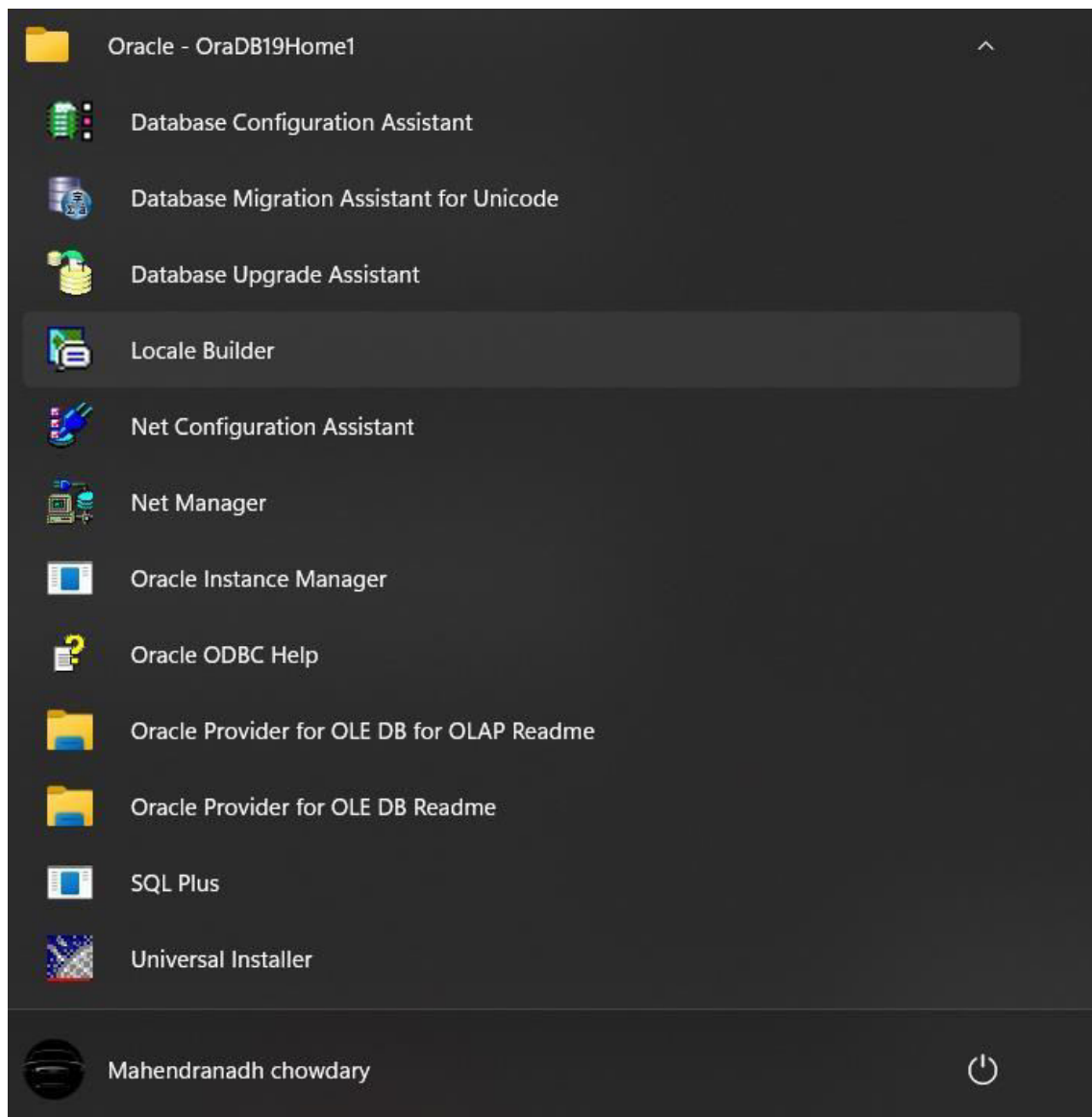
Reg.no : 19BCD7006

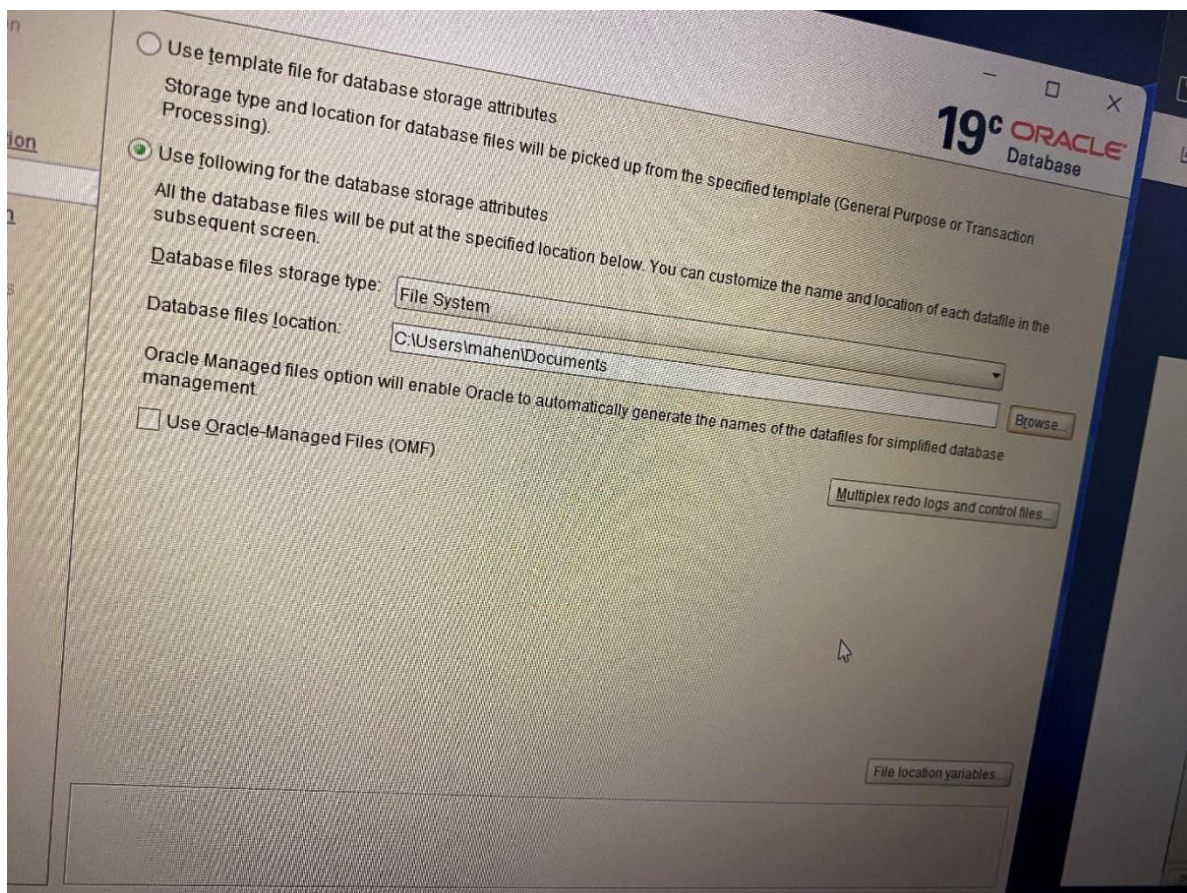
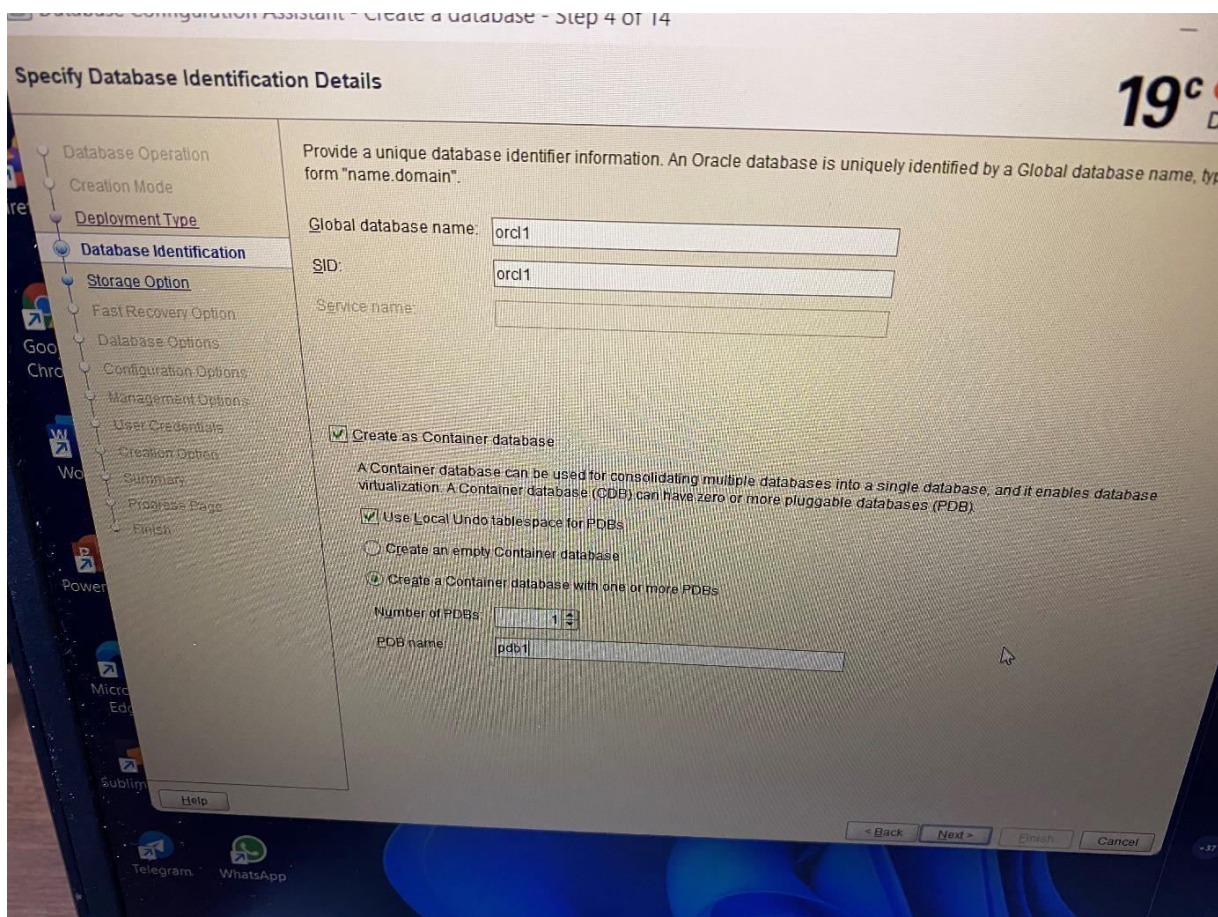
Slot : L5+L6

Faculty : Prof. Somya Ranjan Sahoo

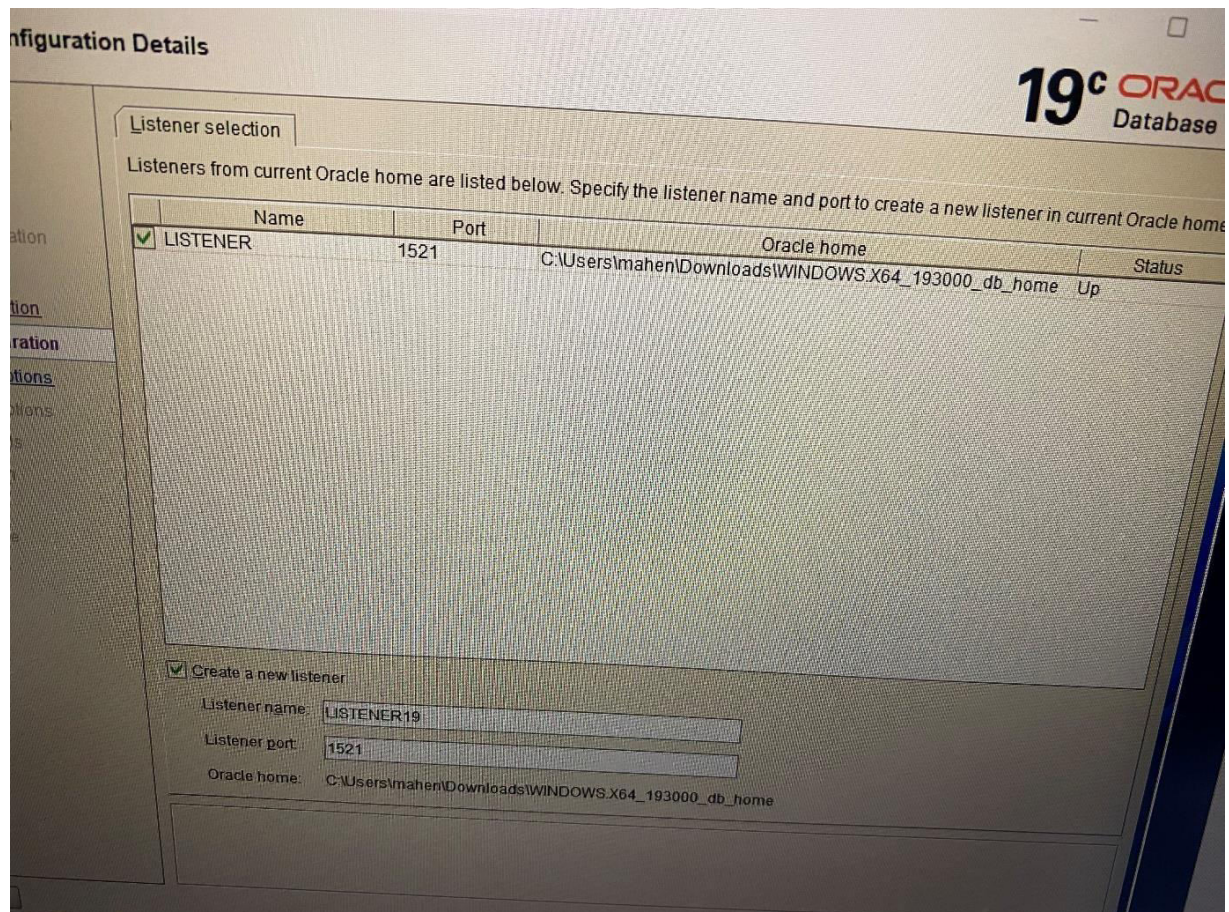
## **Installation of Oracle 19C and Create user**

# Lab - 1









```
SQL Plus

SQL*Plus: Release 19.0.0.0.0 - Production on Tue Mar 29 23:19:00 2022
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Enter user-name: system
Enter password:
Last Successful login time: Tue Mar 29 2022 22:44:24 +05:30

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL>
```

## Lab – 2

### Oracle **CREATE USER** examples

```
SQL*Plus: Release 19.0.0.0.0 - Production on Thu Mar 31 21:22:07 2022
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Enter user-name: system
Enter password:
Last Successful login time: Wed Mar 30 2022 10:07:01 +05:30

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> create user c##hello identified by hello;

User created.
```

To find a list of users with the OPEN status, you query the information from the dba\_users:

```
SQL> select username,default_tablespace,profile,authentication_type from dba_users where account_status='open';

no rows selected

SQL> select username,default_tablespace,profile,authentication_type from dba_users where account_status='close';

no rows selected

SQL>
```

#### Create Grant

```
SQL> grant create session to c##hello;

Grant succeeded.

SQL> _
```

Changing Password:

```
SQL> password c##hello
Changing password for c##hello
New password:
Retype new password:
Password changed
SQL>
```

# Database Administration

## LAB– 3

Name : Koduri Gokul

Reg.no : 19BCD7006

Slot : L5+L6

Faculty : Prof. Somya Ranjan Sahoo

```
Microsoft Windows [version 10.0.19044.1220]
(c) Microsoft Corporation. All rights reserved.

C:\Users\19BCD7006>sqlplus BCD197006/BCD197006@172.18.8.59/VITAPDB

SQL*Plus: Release 11.2.0.1.0 Production on Tue Mar 22 21:34:59 2022
Copyright (c) 1982, 2010, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> CREATE USER john IDENTIFIED BY abcd1234;
CREATE USER john IDENTIFIED BY abcd1234
ERROR at line 1:
ORA-01920: user name 'JOHN' conflicts with another user or role name

SQL> create user c#john identified by abcd1234;
User created.

SQL> grant create session to john;
Grant succeeded.

SQL> create table t1(id number primary key);
Table created.

SQL> grant create table to john;
Grant succeeded.

SQL> select*from session_privs;

PRIVILEGE
-----
ALTER SYSTEM
AUDIT SYSTEM
CREATE SESSION
ALTER SESSION
RESTRICTED SESSION
CREATE TABLESPACE
ALTER TABLESPACE
MANAGE TABLESPACE
DROP TABLESPACE
RESTRICTED TABLESPACE
CREATE USER

PRIVILEGE
-----
BECOME USER
ALTER USER
DROP USER
CREATE ROLLBACK SEGMENT
ALTER ROLLBACK SEGMENT
DROP ROLLBACK SEGMENT
CREATE TABLE
CREATE ANY TABLE
```

```

DROP ANY TABLE
LOCK ANY TABLE
COMMENT ANY TABLE
SELECT ANY TABLE
INSERT ANY TABLE
UPDATE ANY TABLE
DELETE ANY TABLE
CREATE CLUSTER
CREATE ANY CLUSTER
ALTER ANY CLUSTER
DROP ANY CLUSTER
CREATE ANY INDEX
DROP ANY INDEX
CREATE SYNONYM
CREATE ANY SYNONYM
DROP ANY SYNONYM
CREATE PUBLIC SYNONYM
DROP PUBLIC SYNONYM
CREATE VIEW
CREATE ANY VIEW
DROP ANY VIEW
CREATE SEQUENCE
DROP ANY SEQUENCE
ALTER ANY SEQUENCE
SELECT ANY SEQUENCE
CREATE DATABASE LINK
CREATE PUBLIC DATABASE LINK
DROP PUBLIC DATABASE LINK
CREATE ROLE
DROP ANY ROLE
GRANT ANY ROLE
ALTER ANY ROLE
DROP ANY TRIGGER
ALTER ANY TRIGGER
CREATE ANY TRIGGER
DROP ANY TRIGGER
CREATE PROFILE
ALTER PROFILE

```

```

PRIVILEGE
ALTER ANY TRIGGER
DROP ANY TRIGGER
CREATE PROFILE
ALTER PROFILE
DROP PROFILE
ALTER RESOURCE COST
ANALYZE ANY
GRANT ANY PRIVILEGE
CREATE MATERIALIZED VIEW
CREATE ANY MATERIALIZED VIEW
ALTER ANY MATERIALIZED VIEW

PRIVILEGE
-----
DROP ANY MATERIALIZED VIEW
CREATE ANY DIRECTORY
DROP ANY DIRECTORY
CREATE TYPE
CREATE ANY TYPE
ALTER ANY TYPE
DROP ANY TYPE
EXECUTE ANY TYPE
INDEX ANY TYPE
CREATE LIBRARY
CREATE ANY LIBRARY

PRIVILEGE
-----
ALTER ANY LIBRARY
DROP ANY LIBRARY
EXECUTE ANY LIBRARY
CREATE OPERATOR
CREATE ANY OPERATOR
ALTER ANY OPERATOR
DROP ANY OPERATOR
EXECUTE ANY OPERATOR
CREATE INDEXTYPE
CREATE ANY INDEXTYPE
ALTER ANY INDEXTYPE

PRIVILEGE
-----
DROP ANY INDEXTYPE
INDEX ANY VIEW
QUERY REWRITE
EXECUTE ANY INDEXTYPE
ORDER ANY TABLE
CREATE DIMENSION
CREATE ANY DIMENSION
ALTER ANY DIMENSION
DROP ANY DIMENSION
MANAGE ANY QUEUE

PRIVILEGE
-----
ENQUEUE ANY QUEUE
DEQUEUE ANY QUEUE
CREATE ANY CONTEXT
DROP ANY CONTEXT
CREATE ANY OUTLINE

```



Command Prompt - sqlplus BCD19706/BCD19706@172.18.18.VTP08

```
PRIVILEGE
-----
RECOVERABLE
DEBUG CONNECT SESSION
TURNS ANY PROCEDURE
FLASHBACK ANY TABLE
GRANT ANY OBJECT PRIVILEGE
CREATE EVALUATION CONTEXT
CREATE ANY EVALUATION CONTEXT
ALTER ANY EVALUATION CONTEXT
DROP ANY EVALUATION CONTEXT
EXECUTE ANY EVALUATION CONTEXT
CREATE RULE SET
PRIVILEGE
-----
CREATE ANY RULE SET
ALTER ANY RULE SET
DROP ANY RULE SET
EXECUTE ANY RULE SET
IMPORT FULL DATABASE
EXPORT FULL DATABASE
CREATE RULE
CREATE ANY RULE
ALTER ANY RULE
EXECUTE ANY RULE
PRIVILEGE
-----
MONITOR
CREATE JOB
CREATE ANY JOB
EXECUTE ANY PROGRAM
EXECUTE ANY CLASS
MANAGE SCHEDULER
SELECT ANY TRANSACTION
DROP ANY SQL PROFILE
ALTER ANY SQL PROFILE
ADMINISTER SQL TUNING SET
ADMINISTER ANY SQL TUNING SET
PRIVILEGE
-----
CREATE ANY SQL PROFILE
MANAGE FILE GROUP
MANAGE ANY FILE GROUP
READ ANY FILE GROUP
CHANGE NOTIFICATION
CREATE EXTERNAL JOB
CREATE ANY EDITION
DROP ANY EDITION
ALTER ANY EDITION
CREATE ASSEMBLY
CREATE ANY ASSEMBLY
PRIVILEGE
-----
ALTER ANY ASSEMBLY
DROP ANY ASSEMBLY
EXECUTE ANY ASSEMBLY
CREATE ASSEMBLY
```

Command Prompt - sqlplus BCD19706/BCD19706@172.18.18.VTP08

```
PRIVILEGE
-----
ALTER ANY MINING MODEL
EXPORT ANY MINING MODEL
CREATE CUBE DIMENSION
PRIVILEGE
-----
ALTER ANY CUBE DIMENSION
CREATE ANY CUBE DIMENSION
DELETE ANY CUBE DIMENSION
DROP ANY CUBE DIMENSION
INSERT ANY CUBE DIMENSION
SELECT ANY CUBE DIMENSION
CREATE CUBE
ALTER ANY CUBE
CREATE ANY CUBE
DROP ANY CUBE
SELECT ANY CUBE
PRIVILEGE
-----
PRIVATE ANY CUBE
CREATE MEASURE FOLDER
CREATE ANY MEASURE FOLDER
DELETE ANY MEASURE FOLDER
DROP ANY MEASURE FOLDER
INSERT ANY MEASURE FOLDER
CREATE CUBE BUILD PROCESS
CREATE ANY CUBE BUILD PROCESS
DROP ANY CUBE BUILD PROCESS
UPDATE ANY CUBE BUILD PROCESS
UPDATE ANY CUBE DIMENSION
PRIVILEGE
-----
ADMINISTER SQL MANAGEMENT OBJECT
FLASHBACK ARCHIVE ADMINISTER
```

000 rows selected.

```
SQL> privilege
SPJ-0042: unknown command "privilege" - rest of line ignored.
SQL> PRIVILEGE
SPJ-0042: unknown command "PRIVILEGE" - rest of line ignored.
SQL> insert into t1(id) values(10);
1 row created.
SQL> alter user john quota unlimited on user;
alter user john quota unlimited on user
+
ERROR at line 1:
ORA-02156: invalid TEMPORARY tablespace identifier
SQL> alter user john quota unlimited on users;
user altered.
SQL> select*from t1;
ID
-----
```

```
Command Prompt - sqlplus BCD19706/BCD19706@172.18.18.16/VTDPO8
SQL> alter user john quota unlimited on users;
user altered.
SQL> select*from t1;
      ID
-----
      18
SQL> create user jack identified by abcd1234
      2 quota unlimited on users;
      quota unlimited on user
      *
ERROR at line 2:
ORA-01916: invalid TEMPORARY tablespace identifier

SQL> create user jack identified by abcd1234
      2 quota unlimited on users;
      create user jack identified by abcd1234
      *
ERROR at line 1:
ORA-01920: user name 'JACK' conflicts with another user or role name

SQL> create user jack identified by abcd1234
      2 quota unlimited on users;
      create user jack identified by abcd1234
      *
ERROR at line 1:
ORA-01920: user name 'JACK' conflicts with another user or role name

SQL> create user jack identified by abcd1234
      2 QUOTA UNLIMITED ON users;
      create user jack identified by abcd1234
      *
ERROR at line 1:
ORA-01920: user name 'JACK' conflicts with another user or role name

SQL> create user c##jack identified by abcd1234
      2 QUOTA UNLIMITED ON users;
      *
user created.
SQL> grant create session to jack;
grant succeeded.
SQL> grant create table to john with admin option;
grant succeeded.
SQL> grant create t2(id number primary key);
      grant create t2(id number primary key)
      *
ERROR at line 1:
ORA-00955: name is already used by an existing object

SQL> create user c##jack identified by abcd1234
      2 QUOTA UNLIMITED ON users;
      *
user created.
SQL> grant create session to jack;
grant succeeded.
SQL> grant create table to john with admin option;
grant succeeded.
SQL> grant create t2(id number primary key);
      grant create t2(id number primary key)
      *
ERROR at line 1:
ORA-00955: name is already used by an existing object

SQL> grant create table to jack;
grant succeeded.
SQL> create table t2(id number primary key);
table created.
SQL> select*from john.t1;
      ID
-----
      18
SQL> grant select any table to jack;
grant succeeded.
SQL> select*from john.t1;
      ID
-----
      18
SQL> create table t2(id int);
      create table t2(id int)
      *
ERROR at line 1:
ORA-00955: name is already used by an existing object

SQL> create table t2(id INT);
      create table t2(id INT)
      *
ERROR at line 1:
ORA-00955: name is already used by an existing object
```

```
Command Prompt - vaglia BCD19706BCD19706@172.18.18.VTP08
C:\> grant succeeded.
SQL> select*from john.t1;
      ID
-----
      10
SQL> create table t2(id int);
create table t2(id int)
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> create table t2(id int);
create table t2(id int)
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> create table t2(id int);
create table t2(id int)
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> select*from jack.t2;
no rows selected
SQL> insert into t2(id) values(1);
SPJ-6734: unknown command beginning "insert into..." - rest of line ignored.
SQL> insert into t2(id) values(1);
1 row created.
SQL> insert into t2(id) values(2);
1 row created.
SQL> select*from jack.t2;
no rows selected
SQL> select * from jack.t2;
no rows selected
SQL> select*from ot.t2;
select*from ot.t2
ERROR at line 1:
ORA-00942: table or view does not exist
SQL> grant select on ot.t2 to john;
grant select on ot.t2 to john
ERROR at line 1:
Type here to search 32°C Haze 10:13 PM 17/12/2023
```

```
Command Prompt - vaglia BCD19706BCD19706@172.18.18.VTP08
SQL> create table t2(id int);
create table t2(id int)
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> create table t2(id int);
create table t2(id int)
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> select*from jack.t2;
no rows selected
SQL> insert into t2(id) values(1);
SPJ-6734: unknown command beginning "insert into..." - rest of line ignored.
SQL> insert into t2(id) values(1);
1 row created.
SQL> insert into t2(id) values(2);
1 row created.
SQL> select*from jack.t2;
no rows selected
SQL> select * from jack.t2;
no rows selected
SQL> select*from ot.t2;
select*from ot.t2
ERROR at line 1:
ORA-00942: table or view does not exist
SQL> grant select on ot.t2 to john;
grant select on ot.t2 to john
ERROR at line 1:
ORA-00942: table or view does not exist
SQL> grant insert,update on jack.t2 to john;
grant succeeded.
SQL>
```

```
Command Prompt
SQL> select * from jack.t2;
no rows selected
SQL> select*from ot.t2;
select*from ot.t2
*
ERROR at line 1:
ORA-00942: table or view does not exist

SQL> grant select on ot.t2 to john;
grant select on ot.t2 to john
*
ERROR at line 1:
ORA-00942: table or view does not exist

SQL> grant insert,update on jack.t2 to john;
Grant succeeded.

SQL> Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
C:\Users\19BCD7006>
```

Microsoft Windows [Version 10.0.19044.1526]  
(c) Microsoft Corporation. All rights reserved.

C:\Users\19BCD7006>sqlplus BCD197006/[BCD197006@172.18.8.59/VITAPDB](#)

SQL\*Plus: Release 11.2.0.1.0 Production on Tue Mar 22 21:34:59 2022

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Connected to:

Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options

```
SQL> CREATE USER john IDENTIFIED BY abcd1234;
CREATE USER john IDENTIFIED BY abcd1234
*
```

ERROR at line 1:  
ORA-01920: user name 'JOHN' conflicts with another user or role name

```
SQL> create user c###john identified by abcd1234;
```

User created.

```
SQL> grant create session to john;
```

Grant succeeded.

```
SQL> create table t1(id number primary key);
```

Table created.

```
SQL> grant create table to john;
```

Grant succeeded.

```
SQL> select*from session_privs;
```

PRIVILEGE

-----  
ALTER SYSTEM  
AUDIT SYSTEM  
CREATE SESSION

ALTER SESSION  
RESTRICTED SESSION  
CREATE TABLESPACE  
ALTER TABLESPACE  
MANAGE TABLESPACE  
DROP TABLESPACE  
UNLIMITED TABLESPACE  
CREATE USER

#### PRIVILEGE

---

BECOME USER  
ALTER USER  
DROP USER  
CREATE ROLLBACK SEGMENT  
ALTER ROLLBACK SEGMENT  
DROP ROLLBACK SEGMENT  
CREATE TABLE  
CREATE ANY TABLE  
ALTER ANY TABLE  
BACKUP ANY TABLE  
DROP ANY TABLE

#### PRIVILEGE

---

LOCK ANY TABLE  
COMMENT ANY TABLE  
SELECT ANY TABLE  
INSERT ANY TABLE  
UPDATE ANY TABLE  
DELETE ANY TABLE  
CREATE CLUSTER  
CREATE ANY CLUSTER  
ALTER ANY CLUSTER  
DROP ANY CLUSTER  
CREATE ANY INDEX

#### PRIVILEGE

---

ALTER ANY INDEX  
DROP ANY INDEX  
CREATE SYNONYM  
CREATE ANY SYNONYM  
DROP ANY SYNONYM  
CREATE PUBLIC SYNONYM  
DROP PUBLIC SYNONYM  
CREATE VIEW  
CREATE ANY VIEW  
DROP ANY VIEW  
CREATE SEQUENCE

#### PRIVILEGE

---

CREATE ANY SEQUENCE  
ALTER ANY SEQUENCE  
DROP ANY SEQUENCE  
SELECT ANY SEQUENCE  
CREATE DATABASE LINK  
CREATE PUBLIC DATABASE LINK  
DROP PUBLIC DATABASE LINK  
CREATE ROLE  
DROP ANY ROLE  
GRANT ANY ROLE  
ALTER ANY ROLE

#### PRIVILEGE

---



AUDIT ANY  
ALTER DATABASE  
FORCE TRANSACTION  
FORCE ANY TRANSACTION  
CREATE PROCEDURE  
CREATE ANY PROCEDURE  
ALTER ANY PROCEDURE  
DROP ANY PROCEDURE  
EXECUTE ANY PROCEDURE  
CREATE TRIGGER  
CREATE ANY TRIGGER

#### PRIVILEGE

---

ALTER ANY TRIGGER  
DROP ANY TRIGGER  
CREATE PROFILE  
ALTER PROFILE  
DROP PROFILE  
ALTER RESOURCE COST  
ANALYZE ANY  
GRANT ANY PRIVILEGE  
CREATE MATERIALIZED VIEW  
CREATE ANY MATERIALIZED VIEW  
ALTER ANY MATERIALIZED VIEW

#### PRIVILEGE

---

DROP ANY MATERIALIZED VIEW  
CREATE ANY DIRECTORY  
DROP ANY DIRECTORY  
CREATE TYPE  
CREATE ANY TYPE  
ALTER ANY TYPE  
DROP ANY TYPE  
EXECUTE ANY TYPE  
UNDER ANY TYPE  
CREATE LIBRARY  
CREATE ANY LIBRARY

#### PRIVILEGE

---

ALTER ANY LIBRARY  
DROP ANY LIBRARY  
EXECUTE ANY LIBRARY  
CREATE OPERATOR  
CREATE ANY OPERATOR  
ALTER ANY OPERATOR  
DROP ANY OPERATOR  
EXECUTE ANY OPERATOR  
CREATE INDEXTYPE  
CREATE ANY INDEXTYPE  
ALTER ANY INDEXTYPE

#### PRIVILEGE

---

DROP ANY INDEXTYPE  
UNDER ANY VIEW  
QUERY REWRITE  
GLOBAL QUERY REWRITE  
EXECUTE ANY INDEXTYPE  
UNDER ANY TABLE  
CREATE DIMENSION  
CREATE ANY DIMENSION  
ALTER ANY DIMENSION  
DROP ANY DIMENSION  
MANAGE ANY QUEUE

## PRIVILEGE

---

ENQUEUE ANY QUEUE  
DEQUEUE ANY QUEUE  
CREATE ANY CONTEXT  
DROP ANY CONTEXT  
CREATE ANY OUTLINE  
ALTER ANY OUTLINE  
DROP ANY OUTLINE  
ADMINISTER RESOURCE MANAGER  
ADMINISTER DATABASE TRIGGER  
MERGE ANY VIEW  
ON COMMIT REFRESH

## PRIVILEGE

---

RESUMABLE  
DEBUG CONNECT SESSION  
DEBUG ANY PROCEDURE  
FLASHBACK ANY TABLE  
GRANT ANY OBJECT PRIVILEGE  
CREATE EVALUATION CONTEXT  
CREATE ANY EVALUATION CONTEXT  
ALTER ANY EVALUATION CONTEXT  
DROP ANY EVALUATION CONTEXT  
EXECUTE ANY EVALUATION CONTEXT  
CREATE RULE SET

## PRIVILEGE

---

CREATE ANY RULE SET  
ALTER ANY RULE SET  
DROP ANY RULE SET  
EXECUTE ANY RULE SET  
EXPORT FULL DATABASE  
IMPORT FULL DATABASE  
CREATE RULE  
CREATE ANY RULE  
ALTER ANY RULE  
DROP ANY RULE  
EXECUTE ANY RULE

## PRIVILEGE

---

ADVISOR  
CREATE JOB  
CREATE ANY JOB  
EXECUTE ANY PROGRAM  
EXECUTE ANY CLASS  
MANAGE SCHEDULER  
SELECT ANY TRANSACTION  
DROP ANY SQL PROFILE  
ALTER ANY SQL PROFILE  
ADMINISTER SQL TUNING SET  
ADMINISTER ANY SQL TUNING SET

## PRIVILEGE

---

CREATE ANY SQL PROFILE  
MANAGE FILE GROUP  
MANAGE ANY FILE GROUP  
READ ANY FILE GROUP  
CHANGE NOTIFICATION  
CREATE EXTERNAL JOB  
CREATE ANY EDITION  
DROP ANY EDITION

ALTER ANY EDITION  
CREATE ASSEMBLY  
CREATE ANY ASSEMBLY

PRIVILEGE

-----  
ALTER ANY ASSEMBLY  
DROP ANY ASSEMBLY  
EXECUTE ANY ASSEMBLY  
EXECUTE ASSEMBLY  
CREATE MINING MODEL  
CREATE ANY MINING MODEL  
DROP ANY MINING MODEL  
SELECT ANY MINING MODEL  
ALTER ANY MINING MODEL  
COMMENT ANY MINING MODEL  
CREATE CUBE DIMENSION

PRIVILEGE

-----  
ALTER ANY CUBE DIMENSION  
CREATE ANY CUBE DIMENSION  
DELETE ANY CUBE DIMENSION  
DROP ANY CUBE DIMENSION  
INSERT ANY CUBE DIMENSION  
SELECT ANY CUBE DIMENSION  
CREATE CUBE  
ALTER ANY CUBE  
CREATE ANY CUBE  
DROP ANY CUBE  
SELECT ANY CUBE

PRIVILEGE

-----  
UPDATE ANY CUBE  
CREATE MEASURE FOLDER  
CREATE ANY MEASURE FOLDER  
DELETE ANY MEASURE FOLDER  
DROP ANY MEASURE FOLDER  
INSERT ANY MEASURE FOLDER  
CREATE CUBE BUILD PROCESS  
CREATE ANY CUBE BUILD PROCESS  
DROP ANY CUBE BUILD PROCESS  
UPDATE ANY CUBE BUILD PROCESS  
UPDATE ANY CUBE DIMENSION

PRIVILEGE

-----  
ADMINISTER SQL MANAGEMENT OBJECT  
FLASHBACK ARCHIVE ADMINISTER

200 rows selected.

SQL> privilege  
SP2-0042: unknown command "privilege" - rest of line ignored.  
SQL> PRIVILEGE  
SP2-0042: unknown command "PRIVILEGE" - rest of line ignored.  
SQL> insert into t1(id) values(10);

1 row created.

SQL> alter user john quota unlimited on user;  
alter user john quota unlimited on user  
\*

ERROR at line 1:  
ORA-02156: invalid TEMPORARY tablespace identifier

```
SQL> alter user john quota unlimited on users;
```

User altered.

```
SQL> select*from t1;
```

```
      ID
-----
      10
```

```
SQL> create user jack identified by abcd1234
      2  quota unlimited on user;
quota unlimited on user
      *
```

ERROR at line 2:  
ORA-02156: invalid TEMPORARY tablespace identifier

```
SQL> create user jack identified by abcd1234
      2  quota unlimited on users;
create user jack identified by abcd1234
      *
```

ERROR at line 1:  
ORA-01920: user name 'JACK' conflicts with another user or role name

```
SQL> create user jack identified by abcd1234
      2  quota unlimited on users;
create user jack identified by abcd1234
      *
```

ERROR at line 1:  
ORA-01920: user name 'JACK' conflicts with another user or role name

```
SQL> create user jack identified by abcd1234
      2  QUOTA UNLIMITED ON users;
create user jack identified by abcd1234
      *
```

ERROR at line 1:  
ORA-01920: user name 'JACK' conflicts with another user or role name

```
SQL> create user c##jack identified by abcd1234
      2  QUOTA UNLIMITED ON users;
```

User created.

```
SQL> grant create session to jack;
```

Grant succeeded.

```
SQL> grant create table to john with admin option;
```

Grant succeeded.

```
SQL> grant create t2(id number primary key);
grant create t2(id number primary key)
      *
```

ERROR at line 1:  
ORA-00990: missing or invalid privilege

```
SQL> grant create table to jack;
```

Grant succeeded.

```
SQL> create table t2(id number primary key);
```

Table created.

```
SQL> select*from john.t1;
```

```
      ID
-----
      10
```

```
SQL> grant select any table to jack;
```

Grant succeeded.

```
SQL> select*from john.t1;
```

```
      ID
-----
      10
```

```
SQL> create table t2(id int);
create table t2(id int)
      *
```

ERROR at line 1:  
ORA-00955: name is already used by an existing object

```
SQL> create table t2(id INT);
create table t2(id INT)
      *
```

ERROR at line 1:  
ORA-00955: name is already used by an existing object

```
SQL> create table t2(id INT);
create table t2(id INT)
      *
```

ERROR at line 1:  
ORA-00955: name is already used by an existing object

```
SQL> select*from jack.t2;
```

no rows selected

```
SQL> insert into t2(id) values(1);
SP2-0734: unknown command beginning "insert into..." - rest of line ignored.
SQL> insert into t2(id) values(1);
```

1 row created.

```
SQL> insert into t2(id) values(2);
```

1 row created.

```
SQL> select*from jack.t2;
```

no rows selected

```
SQL> select * from jack.t2;
```

no rows selected

```
SQL> select*from ot.t2;
select*from ot.t2
      *
```

ERROR at line 1:



ORA-00942: table or view does not exist

```
SQL> grant select on ot.t2 to john;  
grant select on ot.t2 to john
```

\*

ERROR at line 1:

ORA-00942: table or view does not exist

```
SQL> grant insert,update on jack.t2 to john;
```

Grant succeeded.

SQL> Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options

# Database Administration

## LAB – 4

Koduri Gokul

19BCD7006

### 1.Create user

```
SQL*Plus: Release 19.0.0.0.0 - Production on Wed Mar 30 11:06:17 2022
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Enter user-name: system
Enter password:
Last Successful login time: Wed Mar 30 2022 09:12:45 +05:30

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> create c##gokul identified by
  2
SQL> create c##gokul identified by k1;
create c##gokul identified by k1
      *
ERROR at line 1:
ORA-00901: invalid CREATE command

SQL> create user c##gokul identified by k1;

User created.
```

### 2.Grant create, alter user, lock, unlock:

```
SQL> grant create session to c##gokul;
Grant succeeded.

SQL> alter user c##gokul identified by k2;
User altered.

SQL> alter user c##gokul account lock;
User altered.

SQL> alter user c##gokul account unlock;
User altered.
```

### 3.password expire, Changing password

```
SQL>
SQL> alter user c##gokul password expire;
User altered.

SQL> password c##gokul
changing password for c##gokul
new password:
retype new password:
password changed
```

### 4. select username,profile from dba\_users, create user, create profile, alter user c##gokul profile c##luck.

```

SQL> select username,profile from dba_users where username='gokul';

no rows selected

SQL> create user c##luck;

User created.

SQL> create profile c##luck limit
  2 session_per_user unlimited
  3 cpu_per_session unlimited
  4 cpu_per_call 3000
  5 connect_time 60;
session_per_user unlimited
*
ERROR at line 2:
ORA-02376: invalid or redundant resource

SQL> create profile c##luck limit
  2 sessions_per_user unlimited
  3 cpu_per_session unlimited
  4 cpu_per_call 3000
  5 connect_time 60;

Profile created.

SQL> alter user c##gokul profile c##luck;

User altered.

```

4. select\*from session\_roles, create role, grant roles

```

SQL> create role c##rescue;

Role created.

SQL> grant create table,create view to c##rescue;
SP2-0734: unknown command beginning "grant crea..." - rest of line ignored.
SQL> grant create table,create view to c##rescue;

Grant succeeded.

SQL> select*from session_roles;

ROLE
-----
DBA
SELECT_CATALOG_ROLE
EXECUTE_CATALOG_ROLE
CAPTURE_ADMIN
EXP_FULL_DATABASE
IMP_FULL_DATABASE
AQ_ADMINISTRATOR_ROLE
DATAPUMP_EXP_FULL_DATABASE
DATAPUMP_IMP_FULL_DATABASE
GATHER_SYSTEM_STATISTICS
OPTIMIZER_PROCESSING_RATE

ROLE
-----
EM_EXPRESS_BASIC
EM_EXPRESS_ALL
SCHEDULER_ADMIN
HS_ADMIN_SELECT_ROLE
HS_ADMIN_EXECUTE_ROLE
XDBADMIN
XDB_SET_INVOKER
WM_ADMIN_ROLE
JAVA_ADMIN
OLAP_XS_ADMIN
OLAP_DBA

ROLE
-----
C##SUPER

23 rows selected.

```

5,create roles super, grant privileges.

```

SQL> grant all privileges to c##super;

Grant succeeded.

SQL> grant c##super to c##gokul;

Grant succeeded.

```

6.alter user default, sessions.



```
SQL> select*from session_roles;
```

```
ROLE
```

```
-----  
DBA  
SELECT_CATALOG_ROLE  
EXECUTE_CATALOG_ROLE  
CAPTURE_ADMIN  
EXP_FULL_DATABASE  
IMP_FULL_DATABASE  
AQ_ADMINISTRATOR_ROLE  
DATAPUMP_EXP_FULL_DATABASE  
DATAPUMP_IMP_FULL_DATABASE  
GATHER_SYSTEM_STATISTICS  
OPTIMIZER_PROCESSING_RATE
```

```
ROLE
```

```
-----  
EM_EXPRESS_BASIC  
EM_EXPRESS_ALL  
SCHEDULER_ADMIN  
HS_ADMIN_SELECT_ROLE  
HS_ADMIN_EXECUTE_ROLE  
XDBADMIN  
XDB_SET_INVOKER  
WM_ADMIN_ROLE  
JAVA_ADMIN  
OLAP_XS_ADMIN  
OLAP_DBA
```

```
ROLE
```

```
-----  
C##RESCUE  
C##SUPER
```

```
24 rows selected.
```

7.default role

```
SQL> alter user c##gokul default role c##super;
```

```
User altered.
```

```
SQL> select*from session_roles;
```

```
ROLE
```

```
-----
```

```
DBA  
SELECT_CATALOG_ROLE  
EXECUTE_CATALOG_ROLE  
CAPTURE_ADMIN  
EXP_FULL_DATABASE  
IMP_FULL_DATABASE  
AQ_ADMINISTRATOR_ROLE  
DATAPUMP_EXP_FULL_DATABASE  
DATAPUMP_IMP_FULL_DATABASE  
GATHER_SYSTEM_STATISTICS  
OPTIMIZER_PROCESSING_RATE
```

```
ROLE
```

```
-----  
EM_EXPRESS_BASIC  
EM_EXPRESS_ALL  
SCHEDULER_ADMIN  
HS_ADMIN_SELECT_ROLE  
HS_ADMIN_EXECUTE_ROLE  
XDBADMIN  
XDB_SET_INVOKER  
WM_ADMIN_ROLE  
JAVA_ADMIN  
OLAP_XS_ADMIN  
OLAP_DBA
```

```
22 rows selected.
```

8.create user, drop

```
SQL> create user c##work identified by w1;
```

```
User created.
```

```
SQL> drop user c##work;
```

```
User dropped.
```

9. Using Oracle DROP USER to delete a user that has schema objects First, create a new user called bar and grant the CREATE SESSION and CREATE TABLE system privileges to the user:

```
SQL> create user c##wine
  2  identified by wi
  3  quota 5m on users;

User created.

SQL> grant create session,create table to c##wine;

Grant succeeded.
```

10.create table,drop.

```
SQL> create user c##wine
  2  identified by wi
  3  quota 5m on users;

User created.

SQL> grant create session,create table to c##wine;

Grant succeeded.

SQL> create table t2(id number primary key, v varchar2(100) not null);

Table created.

SQL> insert into t2(id,v)
  2  values(1,'a')
  3  ;

1 row created.

SQL> drop user c##wine;

User dropped.
```

11.create user grant privs

```
SQL> create user c##bye identified by b4;

User created.

SQL> grant all privileges to c##bye;

Grant succeeded.

SQL> select*from session_privs order by privilege;

PRIVILEGE
-----
ADMINISTER ANY SQL TUNING SET
ADMINISTER DATABASE TRIGGER
ADMINISTER RESOURCE MANAGER
ADMINISTER SQL MANAGEMENT OBJECT
ADMINISTER SQL TUNING SET
ADVISOR
ALTER ANY ANALYTIC VIEW
ALTER ANY ASSEMBLY
ALTER ANY ATTRIBUTE DIMENSION
ALTER ANY CLUSTER
ALTER ANY CUBE

PRIVILEGE
-----
ALTER ANY CUBE BUILD PROCESS
ALTER ANY CUBE DIMENSION
```

```

LOGMINING
MANAGE ANY FILE GROUP
MANAGE ANY QUEUE
MANAGE FILE GROUP
MANAGE SCHEDULER
MANAGE TABLESPACE

PRIVILEGE
-----
MERGE ANY VIEW
ON COMMIT REFRESH
QUERY REWRITE
READ ANY FILE GROUP
READ ANY TABLE
REDEFINE ANY TABLE
RESTRICTED SESSION
RESUMABLE
SELECT ANY CUBE
SELECT ANY CUBE BUILD PROCESS
SELECT ANY CUBE DIMENSION

PRIVILEGE
-----
SELECT ANY DICTIONARY
SELECT ANY MEASURE FOLDER
SELECT ANY MINING MODEL
SELECT ANY SEQUENCE
SELECT ANY TABLE
SELECT ANY TRANSACTION
SET CONTAINER
UNDER ANY TABLE
UNDER ANY TYPE
UNDER ANY VIEW
UNLIMITED TABLESPACE

PRIVILEGE
-----
UPDATE ANY CUBE
UPDATE ANY CUBE BUILD PROCESS
UPDATE ANY CUBE DIMENSION
UPDATE ANY TABLE
USE ANY JOB RESOURCE
USE ANY SQL TRANSLATION PROFILE

237 rows selected.

```

12. Granting all privileges to an existing user To grant all privileges to an existing user, you just need to use the GRANT ALL PRIVILEGES statement. For example, the following statement grants all privileges to the user lice:

```

SQL> create user c##lice;

User created.

SQL> grant all privileges to c##lice;

Grant succeeded.

SQL>

```



13.drop all users:

# Database Administration

## LAB – 4

Koduri Gokul

19BCD7006

How To Grant SELECT Object Privilege On One or More Tables to a User Grant SELECT on a table to a user:

```
SQL> create user c##smily identified by abcd1234;
User created.
SQL> grant create session to c##smily;
Grant succeeded.
```

Second, grant the SELECT object privilege on the ot.customers table:

```
SQL> create table customers(personalID int,firstname varchar(255),lastname varchar(255),address varchar(255));
Table created.
SQL> insert into customers values(242,'koduri','gokul','velivennu');
1 row created.
SQL> insert into customers values(2672,'koduri','vinny','velivennu');
1 row created.
SQL> grant select on customers to c##smily;
Grant succeeded.
SQL>
```

CUSTOMER S TABLE count,unlock:

```
SQL> grant select on customers to c##smily;
Grant succeeded.
SQL> select count(*) from customers;
COUNT(*)
-----
2
SQL> alter user c##smily identified by password account unlock;
User altered.
SQL> alter user c##smily identified by abcd1234 account unlock;
User altered.
```

users that are visible to the current user:

```
SQL> select*from all_users;
```

```
USERNAME
```

```
-----  
      USER_ID CREATED    COM 0 INH
```

```
-----  
DEFAULT_COLLATION
```

```
-----  
IMP ALL
```

```
-----  
SYS
```

```
      0 30-MAY-19 YES Y NO
```

```
USING_NLS_COMP
```

```
NO NO
```

```
USERNAME
```

```
-----  
      USER_ID CREATED    COM 0 INH
```

```
-----  
DEFAULT_COLLATION
```

```
-----  
IMP ALL
```

```
-----  
AUDSYS
```

```
      8 30-MAY-19 YES Y NO
```

```
USING_NLS_COMP
```

```
NO NO
```

```
USERNAME
```

```
-----  
      USER_ID CREATED    COM 0 INH
```

```
-----  
DEFAULT_COLLATION
```

```
-----  
IMP ALL
```

```

USERNAME
-----
      USER_ID CREATED    COM O INH
-----
DEFAULT_COLLATION
-----
IMP ALL
-----
C##SMILY
      115 07-APR-22 YES N NO
USING_NLS_COMP
NO NO

USERNAME
-----
      USER_ID CREATED    COM O INH
-----
DEFAULT_COLLATION
-----
IMP ALL
-----
C##JHON
      107 27-MAR-22 YES N NO
USING_NLS_COMP
NO NO

38 rows selected.

```

users in the Oracle Database:

```
SQL> select * from dba_users;
```

```
-----  
NO NO  
-----  
USERNAME  
-----  
USER_ID  
-----  
PASSWORD  
-----  
ACCOUNT_STATUS LOCK_DATE EXPIRY_DA  
-----  
DEFAULT_TABLESPACE TEMPORARY_TABLESPACE  
-----  
LOCAL_TEMP_TABLESPACE CREATED  
-----  
PROFILE  
-----  
INITIAL_RSRC_CONSUMER_GROUP  
-----  
EXTERNAL_NAME  
-----  
PASSWORD_VERSIONS E AUTHENTI P COM  
-----  
LAST_LOGIN 0  
-----  
INH  
-----  
DEFAULT_COLLATION  
-----  
TMP ALL PASSWORD_  
-----  
  
38 rows selected.
```

current user:

```
SQL> select * from user_users;  
-----  
USER_ID ACCOUNT_STATUS LOCK_DATE EXPIRY_DA  
-----  
DEFAULT_TABLESPACE TEMPORARY_TABLESPACE  
-----  
LOCAL_TEMP_TABLESPACE CREATED  
-----  
INITIAL_RSRC_CONSUMER_GROUP  
-----  
EXTERNAL_NAME  
-----  
P COM 0 INH  
-----  
DEFAULT_COLLATION  
-----  
TMP ALL PASSWORD_  
-----  
SYSTEM  
-----  
-----  
USER_ID ACCOUNT_STATUS LOCK_DATE EXPIRY_DA  
-----  
DEFAULT_TABLESPACE TEMPORARY_TABLESPACE  
-----  
LOCAL_TEMP_TABLESPACE CREATED  
-----  
INITIAL_RSRC_CONSUMER_GROUP  
-----  
EXTERNAL_NAME  
-----  
P COM 0 INH  
-----  
DEFAULT_COLLATION  
-----  
TMP ALL PASSWORD_  
-----  
-----
```

```

-----
IMP ALL PASSWORD_
-----
NO NO 30-MAY-19

USERNAME
-----
USER_ID ACCOUNT_STATUS LOCK_DATE EXPIRY_DA
-----
DEFAULT_TABLESPACE TEMPORARY_TABLESPACE
-----
LOCAL_TEMP_TABLESPACE CREATED
-----
INITIAL_RSRC_CONSUMER_GROUP
-----
EXTERNAL_NAME
-----
P COM 0 INH
-----
DEFAULT_COLLATION
-----
IMP ALL PASSWORD_
-----
SQL>

```

Oracle ALL\_USERS:

```

SQL> select*from user_users;

USERNAME
-----
USER_ID ACCOUNT_STATUS LOCK_DATE EXPIRY_DA
-----
DEFAULT_TABLESPACE TEMPORARY_TABLESPACE
-----
LOCAL_TEMP_TABLESPACE CREATED
-----
INITIAL_RSRC_CONSUMER_GROUP
-----
EXTERNAL_NAME
-----
P COM 0 INH
-----
DEFAULT_COLLATION
-----
IMP ALL PASSWORD_
-----
SYS

USERNAME
-----
USER_ID ACCOUNT_STATUS LOCK_DATE EXPIRY_DA
-----
DEFAULT_TABLESPACE TEMPORARY_TABLESPACE
-----
LOCAL_TEMP_TABLESPACE CREATED
-----
INITIAL_RSRC_CONSUMER_GROUP
-----
EXTERNAL_NAME
-----
P COM 0 INH
-----
DEFAULT_COLLATION
-----

```

```

USERNAME
-----
  USER_ID CREATED   COM O INH
-----
DEFAULT_COLLATION
-----
IMP ALL
-----
C##JHON
      107 27-MAR-22 YES N NO
USING-NLS_COMP
NO NO

USERNAME
-----
  USER_ID CREATED   COM O INH
-----
DEFAULT_COLLATION
-----
IMP ALL
-----
C##SMILY
      115 07-APR-22 YES N NO
USING-NLS_COMP
NO NO

```

Oracle DBA\_USERS:

```

USING-NLS_COMP
NO NO

38 rows selected.

SQL> select*from dba_users order by created desc;

```

```

PASSWORD
-----
ACCOUNT_STATUS          LOCK_DATE EXPIRY_DA
-----
DEFAULT_TABLESPACE      TEMPORARY_TABLESPACE
-----
LOCAL_TEMP_TABLESPACE   CREATED
-----
PROFILE
-----
INITIAL_RSRC_CONSUMER_GROUP
-----
EXTERNAL_NAME
-----
PASSWORD_VERSIONS E AUTHENTI P COM
-----
LAST_LOGIN              0
-----
INH
---
DEFAULT_COLLATION
-----
IMP ALL PASSWORD_
-----
38 rows selected.

```

## CREATE ROLE

create a new role:

```

SQL> create roles c##gokul;

Role created.

```

grant object privileges:

```

38 rows selected.
SQL> create roles c##gokul;
Role created.
SQL> create table contacts(phoneno int);
Table created.
SQL> insert into contacts values(74564158);
1 row created.
SQL> insert into contacts values(745641441821688);
1 row created.
SQL> create table products(productid int);
Table created.
SQL> insert into products values(4541587);
1 row created.
SQL> insert into products values(4588107);
1 row created.
SQL> create table product_categories(productcategoriesid int);
Table created.
SQL> insert into product_categories values(445);
1 row created.

```



```
SQL> grant select,insert,update,delete on customers to c##gokul;
Grant succeeded.

SQL> grant select,insert,update,delete on contacts to c##gokul;
Grant succeeded.

SQL> grant select,insert,update,delete on products to c##gokul;
Grant succeeded.

SQL> grant select,insert,update,delete on product_categories to c##gokul;
Grant succeeded.

SQL> _
```

SESSION privilege to alice, set roles:

```
SQL> create user c##alice identified by abc123;
User created.

SQL> grant create session to c##alice;
Grant succeeded.

SQL> grant c##gokul to c##alice;
Grant succeeded.

SQL> set role c##gokul;
Role set.
```

SESSION roles:

```
SQL> create table orders(phoneno int);
Table created.

SQL> insert into products values(4541587);
1 row created.
```

```
SQL> insert into orders values(107);
1 row created.

SQL>
```

```
SQL> create table order(phoneno int);
create table order(phoneno int)
      *
ERROR at line 1:
ORA-00903: invalid table name

SQL> create table orders(phoneno int);
Table created.

SQL> insert into products values(4541587);
1 row created.

SQL> insert into products values(4588107);
insert into products values(4588107)
      *
ERROR at line 1:
ORA-00942: table or view does not exist

SQL> insert into orders values(107);
1 row created.

SQL> create user c##koduri identified by abcd1234;
User created.

SQL> grant select,insert,update,delete on orders to c##koduri;
Grant succeeded.

SQL> create table order_items(item varchar(255));
Table created.

SQL> insert into order_items values('chicken');
1 row created.

SQL> grant select,insert,update,delete on order_items to c##koduri;
Grant succeeded.
```

# Database Administration

Koduri Gokul

19BCD7006

*CREATE user profile:*

```
SQL> create user c##crm identified by abcd1234
      2 profile c##crm_users;
```

S

**CREATE PROFILE to set the resource limit:**

```
SQL> create profile c##crm_users limit
      2 sessions_per_user unlimited
      3 cpu_per_session unlimited
      4 cpu_per_call 3000
      5 connect_time 15;
```

Profile created.

verify the profile:

```
SQL> select
      2 username,
      3 profile
      4 from
      5 dba_users
      6 where
      7 username = 'c##crm';
```

no rows selected

create a new profile called *erp\_users* with password limits:

```
SQL> create profile c##erp_users limit
      2 failed_login_attempts 5
      3 password_life_time 90;
```

Profile created.

create a user named *Sap* and set its profile to *erp\_users*::

```
SQL> create user c##sap identified by abcd1234
  2  profile c##erp_users;

User created.
```

create a new role called *db\_designer*:

```
SQL> create role c##db_designer identified by abcd1234;

Role created.
```

grant the *CREATE TABLE* and *CREATE VIEW* system privileges to the *db\_designer* role:

```
SQL> grant create table,create view to c##db_designer;

Grant succeeded.
```

create a user called *michael*:

```
SQL> create user c##michael identified by xyz123;

User created.
```

grant the *db\_designer* and *connect* roles to the user *michael*:

```
SQL> grant c##db_designer, connect to c##michael;

Grant succeeded.
```

query returns the roles granted to the user *michael*:

```
SQL> select*from dba_role_privs
  2  where grantee = 'c##MICHAEL';

no rows selected
```

Database using the user *michael* and set the role of *michael* to *db\_designer*:

```
SQL> set role c##db_designer identified by abcd1234;

Role set.
```

session and change the role to a *NOT IDENTIFIED* role:

```
SQL> alter role c##db_designer not identified;  
Role altered.
```

```
SQL> set role c##db_designer;  
Role set.
```

create a new profile named *mobile\_app*:

```
SQL> create profile c##mobile_app limit  
  2 password_life_time unlimited;  
Profile created.
```

*DROP PROFILE* statement to delete the *mobile\_app* profile:

```
SQL> drop profile c##mobile_app;  
Profile dropped.
```

create a new profile called *db\_manager*:

```
SQL> create profile c##db_manager limit  
  2 failed_login_attempts 5  
  3 password_life_time 1;  
Profile created.
```

*peter* and assign the *db\_manager* profile to the user:

```
SQL> create user c##peter identified by abcd1234  
  2 profile c##db_manager;  
User created.
```

*CASCADE* option in the *DROP PROFILE* statement to delete the *db\_manager* profile:

```
SQL> drop profile c##db_manager CASCADE;  
Profile dropped.
```

# Database Administration

## LAB

Name : Koduri Gokul

Reg.no : 19BCD7006

Slot : L5+L6

Faculty : Prof. Somya Ranjan Sahoo

create directory lang\_external:

```
SQL*Plus: Release 19.0.0.0.0 - Production on Wed Apr 27 21:16:56 2022
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Enter user-name:      system
Enter password:
Last Successful login time: Wed Apr 27 2022 09:50:39 +05:30

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> create directory lang_external as 'c:\loader';

Directory created.
```

**Grant *READ* and *WRITE* access on the directory object to users:**

```
SQL> create user c##gokul identified by abcd1234;

User created.

SQL> grant read,write on directory lang_external to c##gokul;

Grant succeeded.

SQL> _
```

**creating the external table:**

```
SQL> create table language(  
  2 language_id INT,  
  3 language_name VARCHAR(30)  
  4 )  
  5 organization external(  
  6 type oracle_loader  
  7 default directory lang_external  
  8 access parameters  
  9 (fields terminated by ',')  
 10 location('language.csv'));  
  
Table created.
```

create a view based on the external table:

```
SQL> create view language_a  
  2 as  
  3 select language_name  
  4 from language  
  5 where language_name like 'A%';  
  
View created.
```

create a new table to store the email data from the input data file:

```
SQL> create table emails(  
  2 email_id number primary key,  
  3 email varchar2(150) not null);  
  
Table created.
```

Oracle and verify the contents of the *emails* table:



```
SQL> select*from emails;

no rows selected

SQL> insert into emails(email_id,email) values(1,'jkd.a@example.com');

1 row created.

SQL> select*from emails;

  EMAIL_ID
-----
EMAIL
-----
          1
jkd.a@example.com
```

create a new directory object *ot\_external* that maps to the *c:\export* folder:

```
SQL> create directory c##gokul as 'c:\export';

Directory created.
```

# Database Administration

## Lab Assignment

Koduri Gokul  
19BCD7006

Using a synonym to simplify the syntax for accessing objects via a database link

```
C:\> Command Prompt - sqlplus BCD197006/BCD197006@172.18.8.59/vitapdb
Microsoft Windows [Version 10.0.18363.1500]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\19BCD7006>sqlplus BCD197006/BCD197006@172.18.8.59/vitapdb

SQL*Plus: Release 11.2.0.1.0 Production on Wed May 4 09:30:37 2022

Copyright (c) 1982, 2010, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> create SYNONYM local_table for remote_table@database_link;

Synonym created.
```

## Oracle CREATE DATABASE LINK

```
SQL> create database link dblink
  2 connect to remote_user identified by password
  3 using 'remote_database';

Database link created.
```

create the private database link to a user in a remote database:

```
SQL> create database link dblinks
  2 connect to remote_user identified by password
  3 using '(description=(address=(protocol=tcp)(host=oracledb.example.com)(port=1521))(connect_data=(service_name=service_name)))';

Database link created.
```

create a public database link:

```
SQL> create public database link dblink
  2  connect to remote_user identified by password
  3  using 'remote_database';

Database link created.
```

CREATE DATABASE LINK statement to create a new private database link that connects to the SALES database via bob's account:

```
SQL> (description=
  2  (address=(protocol = tcp)(host=10.50.100.143)(port=1521))
  3  (connect data=(server=dedicated)
  4  (service_name=sales_prd)
  5  )
  6  )
  7
SQL> create database link sales
  2  connect to bob identified by abcd1234
  3  using 'sales';

Database link created.
```

## Alter:

Alter new password for the remote user of a private database link:

```
SQL> ALTER DATABASE LINK dblink
  2  CONNECT TO remote_user IDENTIFIED BY new_password;

Database link altered.
```

Alter public database link::

```
SQL> ALTER PUBLIC DATABASE LINK dblink
  2  CONNECT TO remote_user IDENTIFIED BY new_password;

Database link altered.
```

## Oracle ALTER DATABASE LINK:

```
SQL> ALTER DATABASE LINK sales  
2 CONNECT TO bob IDENTIFIED BY xyz123;  
  
Database link altered.
```

## DROP:

### Oracle DROP DATABASE LINK:

```
SQL> DROP DATABASE LINK dblink;  
  
Database link dropped.
```

remove a public database link:

```
SQL> DROP PUBLIC DATABASE LINK dblink;  
  
Database link dropped.
```

```
SQL> DROP DATABASE LINK sales;  
  
Database link dropped.
```