YASH SARANG - DBMS EXPERIMENT 10.
ASSESSED TO ALLESSES WELLOW SERVICES ASSESSED TO A SERVICE ASSESSED.
Demonstrate DCL & TCL commands.
e: la execute commands that control databases and transactions.
and four actions.
Contract of the contract of th
Descriptions:
Data Control Language (DCL)  Commande that control a database, Encluding administering priveleges Se committing data Used for create roles, permissions Se referrential integrity as will it is used to control access to databases by securing it.
administering priveleges & committing data. Used
to create roles, permissions le referential
integrity as will it is used to wontrol access to
databases by securing it.
Revoke, Grout are two such commands
GRANT- gives the user access privileges to the database. Only Database administrator's or swores of the bo database object can provide transve privileges on a database object.
database. Valy Database administrator's or
sweets of the bo database object un
used to assign permission to seens
S. State Control of the Control of Control o
Eq. grant need on emp to user 1;
REVOKE: withdraws user access to database given
REVOKE: withdraws user access to database given that with the GRANT command.
Symbon - remere <pre></pre>
from service

## GRANT:

```
SQL> grant select, update on emp to flash
2 ;
Grant succeeded.
```

## REVOKE:

```
SQL> revoke select,update on emp from flash;
Revoke succeeded.
```

# TCL COMMANDS: COMMIT, ROLLBACK, SAVEPOINT---

```
SQL> select * from customer;

CID CNAME PHNO

12 ramesh 99201
12 ramesh 98021
13 suresh 86547
14 mahesh 675320
```

#### COMMIT:

```
SQL> delete from customer
2 where cid=12;
2 rows deleted.

SQL> commit;

Commit complete.

SQL> select * from customer;

CID CNAME PHNO

13 suresh 86547
14 mahesh 675320
```

#### ROLLBACK:

```
SQL> delete from customer

2 where cid=12;

2 rows deleted.

SQL> rollback;

Rollback complete.
```

#### SAVEPOINT:

```
SQL> insert into customer values (12,'ramesh',99201);
1 row created.
SQL> insert into customer values(12, 'ramesh', 98021);
1 row created.
SQL> savepoint customers;
Savepoint created.
SQL> select * from customer;
      CID CNAME
                                     PHNO
       12 ramesh
                                   99201
       13 suresh
                                   86547
       14 mahesh
                                   675320
       12 ramesh
                                   98021
SQL> delete from customer where cid=12;
2 rows deleted.
SQL> select * from customer;
     CID CNAME
                                    PHNO
      13 suresh
                                   86547
       14 mahesh
                                   675320
SQL> rollback to customers;
Rollback complete.
SQL> select * from customer;
      CID CNAME
                                    PHNO
                                    99201
       12 ramesh
       13 suresh
                                   86547
       14 mahesh
                                   675320
       12 ramesh
                                    98021
```