# Exp.No:4 CREATION AND UPDATION OF VIEWS

# AIM:

To execute commands in creation and updating of views.

#### VIEW:

In SQL, a view is a virtual table based on the result-set of an SQL statement.

A view contains rows and columns, just like a real table. The fields in a view are fields from one or more real tables in the database.

You can add SQL functions, WHERE, and JOIN statements to a view and present the data as if the data were coming from one single table.

A view always shows up-to-date data

# **QUERIES:**

#### 1. Create view

SQL> select * from vehicles;							
ID	MODEL	MANUFACTURE	COLOR	MILEAGE	REG_NO		
1	suzuki	2000	white	45	99		
3	maruthi	2012	blue	70	97		
2	toyoto	2008	black	30	94		
5	benz	2004	black	50	98		
4	hondo	2020	red	60	90		

#### **SYNTAX:**

CREATE OR REPLACE VIEW view\_name AS SELECT column1, column2, ... FROM table\_name WHERE condition;

```
SQL> create or replace view vehi as select model, color, id from vehicles where
id>1;
View created.
SQL> select * from vehi;
MODEL
           COLOR
                               ID
maruthi
           blue
                                3
           black
tovoto
                                2
                                5
benz
           black
hondo
           red
```

#### 2. Insert in view

Insert into view\_name(column1,..column n) values(values);

```
SQL> insert into vehi values('supra', 'grey', 6, 96);
1 row created.
SQL> select * from vehicles;
                                                             REG_NO
        ID MODEL
                      MANUFACTURE COLOR
                                                 MILEAGE
                                                      45
                                                                  99
         1 suzuki
                             2000 white
                                                      70
                                                                  97
         3 maruthi
                             2012 blue
                                                                  94
         2 toyoto
                             2008 black
                                                      30
                                                                  98
         5 benz
                             2004 black
                                                      50
                                                      60
         4 hondo
                             2020 red
                                                                  90
         9 acer
                                   brown
                                                                  11
                                                                  96
         6 supra
                                   grey
```

# 3. Delete in view:

Delete from view\_name where conditions;

```
SQL> delete from vehi where model='supra';
1 row deleted.
```

# 4. Update view

Update view\_name set attribute=value where conditions;

```
SQL> update vehi set color='yellow' where reg_no=97;

1 row updated.
```

# 5. Drop view

Drop view view\_name;

```
SQL> drop view r_vehi;
View dropped.
```

# 6. Order by command

Select \* from view\_name order by column\_name;

SQL> select * from vehi order by id;						
MODEL	COLOR	ID	REG_NO			
toyoto maruthi hondo benz acer	black yellow red black brown	2 3 4 5 9	94 97 90 98 11			

# 7. With read only constraint

create view part\_view as select \*from table\_name with read only constraint rea dcons;

SQL> create view r\_vehi as select \* from vehicles with read only constraint re adcons;
View created.

7. Execute DML commands in view table and check whether it is reflected in main table. SQL> insert into particulars\_view(sys\_no, gametype)values('08', 'Racing');

```
SQL> insert into vehi values('acer', 'brown', 9, 11);
1 row created.
SQL> select * from vehicles;
        ID MODEL
                      MANUFACTURE COLOR
                                                 MILEAGE
                                                              REG_NO
         1 suzuki
                                                       45
                                                                  99
                              2000 white
         3 maruthi
                              2012 blue
                                                       70
                                                                  97
                                                                  94
         2 toyoto
                              2008 black
                                                       30
         5 benz
                              2004 black
                                                       50
                                                                  98
         4 hondo
                              2020 red
                                                       60
                                                                  90
         9 acer
                                   brown
                                                                  11
6 rows selected.
```

# IT IS REFELECTED.

# 8.Execute DML commands in main table and check whether it is reflected in view table.

SQL> insert into particulars(sys\_no, gametype, amount)values('12', 'Racing','30');

```
SQL> insert into vehicles values(8, 'mahi', 2004, 'sandal', 80, 23);
1 row created.
SQL> select * from vehi;
MODEL
           COLOR
                              ID
                                      REG_NO
           yellow
maruthi
                               3
                                          97
                               2
           black
                                          94
toyoto
           black
                               5
                                          98
benz
hondo
           red
                               4
                                          90
                               9
acer
           brown
                                          11
                               8
           sandal
                                          23
mahi
6 rows selected.
```

#### IT IS REFLECTED.

9. Do DML operations in view table with read only constraint and tell what happens.

SQL> insert into part\_view(sys\_no, gametype, amount)values('10', 'Cooking games', '25'); insert into part\_view(sys\_no, gametype, amount)values('10', 'Cooking games', '25') ERROR at line 1:0RA-42399: cannot perform a DML operation on a read-only view

```
SQL> insert into r_vehi values(11,'classo',2017,'violet',99,41); insert into r_vehi values(11,'classo',2017,'violet',99,41)

*
ERROR at line 1:
ORA-42399: cannot perform a DML operation on a read-only view
```

#### **RESULT:**

Thus the commands on creation and updation of views were executed and verified successfully.

22IT480-Lab Manual 2023-24 22IT026\_HARINI.S