VIEWS(EXP-6)

```
1 row created.

SQL> insert into emp1 values('nishanth','engineer');

1 row created.

SQL> insert into emp1 values('abc','chef');

1 row created.

SQL> create view v3 as select e1.fname,e1.lname,e1.age,e2.des from emp e1,emp1 e2 where e1.fname=e2.fname
  2  ;

View created.

SQL> select * from v3;

FNAME                LNAME                 AGE DES
-------------------- -------------------- ---------- --------------------
govardhan            sai                    25 teacher
nishanth             kumar                  24 engineer

SQL> create view v4 as select e1.fname,e1.lname,e1.age,e2.des from emp e1,emp1 e2 where e1.fname=e2.fname with read only;

View created.

SQL> select * from v4;

FNAME                LNAME                 AGE DES
-------------------- -------------------- ---------- --------------------
govardhan            sai                    25 teacher
nishanth             kumar                  24 engineer

SQL> insert into v3 values('qwr','ert',45,'abcf');
insert into v3 values('qwr','ert',45,'abcf')
*
ERROR at line 1:
ORA-01779: cannot modify a column which maps to a non key-preserved table


SQL>
```

```
LNAME                 AGE
-------------------- ----------
sai                    25
kumar                  24
dcd                    45
rty                    78

SQL> update v2 set lname='plm' where age=78;
update v2 set lname='plm' where age=78
*
ERROR at line 1:
ORA-42399: cannot perform a DML operation on a read-only view


SQL> create table emp1
  2  (
  3  fname varchar(19),
  4  des varchar(19)
  5  );
create table emp1
             *
ERROR at line 1:
ORA-00955: name is already used by an existing object


SQL> drop table emp1;

Table dropped.

SQL> create table emp1
  2  (
  3  fname varchar(19),
  4  des varchar(19)
  5  );

Table created.

SQL> insert into emp1 values('govardhan','teacher');

1 row created.

SQL> insert into emp1 values('nishanth','engineer');

1 row created.

SQL> insert into emp1 values('abc','chef');

1 row created.
```

```
FNAME                SALARY
------------------ ----------
govardhan               45600
nishanth               150000
pqr                     78964
qwe                     67896

SQL> select * from emp;

FNAME                LNAME                    AGE     SALARY
------------------ ------------------- ---------- ----------
govardhan          sai                         25      45600
nishanth           kumar                       24     150000
pqr                dcd                         45      78964
qwe                rty                         78      67896

SQL> create view v2 as select lname,age from emp with read only;

View created.

SQL> select * from v2;

LNAME                   AGE
------------------- ----------
sai                      25
kumar                    24
dcd                      45
rty                      78

SQL> update v2 set lname='plm' where age=78;
update v2 set lname='plm' where age=78
       *
ERROR at line 1:
ORA-42399: cannot perform a DML operation on a read-only view


SQL> create table emp1
  2  (
  3  fname varchar(19),
  4  des varchar(19)
  5  );
create table emp1
             *
ERROR at line 1:
ORA-00955: name is already used by an existing object


SQL> drop table emp1;
```

```
SQL> select * from v1;

FNAME                SALARY
------------------ ----------
govardhan               45600
nishanth               150000
abc                     78964
qwe                     67896

SQL> update v1 set fname='pqr' where salary=78964;

1 row updated.

SQL> select * from v1;

FNAME                SALARY
------------------ ----------
govardhan               45600
nishanth               150000
pqr                     78964
qwe                     67896

SQL> select * from emp;

FNAME                LNAME                    AGE     SALARY
------------------ ------------------- ---------- ----------
govardhan          sai                         25      45600
nishanth           kumar                       24     150000
pqr                dcd                         45      78964
qwe                rty                         78      67896

SQL> create view v2 as select lname,age from emp with read only;

View created.

SQL> select * from v2;

LNAME                   AGE
------------------- ----------
sai                      25
kumar                    24
dcd                      45
rty                      78

SQL> update v2 set lname='plm' where age=78;
update v2 set lname='plm' where age=78
       *
```

```
SQL> create table emp
  2  (
  3  fname varchar(19),
  4  lname varchar(19),
  5  age integer,
  6  salary integer
  7  );

Table created.

SQL> insert into emp values('govardhan','sai',25,45600);

1 row created.

SQL> insert into emp values('nishanth','kumar',24,150000);

1 row created.

SQL> insert into emp values('abc','dcd',45,78964);

1 row created.

SQL> insert into emp values('qwe','rty',78,67896);

1 row created.

SQL> select * from emp;

FNAME                LNAME                    AGE     SALARY
-------------------- -------------------- --------- ----------
govardhan            sai                       25      45600
nishanth             kumar                     24     150000
abc                  dcd                       45      78964
qwe                  rty                       78      67896

SQL> create view v1 as select fname,salary from emp;

View created.

SQL> select * from v1;

FNAME                SALARY
-------------------- ----------
govardhan                45600
nishanth                150000
abc                      78964
qwe                      67896
```

Utsav Porwal(RA1911003010783)

```
SQL> SELECT CHR(65),CHR(97) FROM DUAL;

C C
- -
A a

SQL> SELECT LENGTH('SQL TUTORIAL') AS LEN FROM DUAL;

LEN
----------
12

SQL> SELECT LOWER('SQL TUTORIAL') AS LOWER FROM DUAL;

LOWER
----------
sql tutorial

SQL> SELECT UPPER('SQL TUTORIAL') AS upper FROM DUAL;

UPPER
----------
SQL TUTORIAL

SQL> SELECT SUBSTR('Database Management System', 9, 7)
```

```
FROM DUAL;

SUBSTR(
-------
Manage

SQL> SELECT LPAD('ORACLE','10','.') LPAD_DOTTED FROM
DUAL;

LPAD_DOTTE
----------
....ORACLE

SQL> SELECT INITCAP('ORACLE TESTING') FROM DUAL;

INITCAP('ORACL
--------------
Oracle Testing

SQL> SELECT CONCAT('ORACLE TESTING', ` AND TUTORIAL')
FROM DUAL;
ERROR:
ORA-01756: quoted string not properly terminated
```

```
SQL> SELECT CONCAT('ORACLE TESTING', ' AND TUTORIAL')
FROM DUAL;

CONCAT('ORACLETESTING','AND
----------------------------
ORACLE TESTING AND TUTORIAL


SQL> SELECT INSTR('character','r',1,1) POS1,
INSTR('character','r',1,2) POS2, INSTR('character','a',-1,2)
POS3,INSTR('character','c',) POS4 FROM dual;
SELECT INSTR('character','r',1,1) POS1, INSTR('character','r',1,2)
POS2, INSTR('character','a',-1,2) POS3,INSTR('character','c',)
POS4 FROM dual
                                       *
ERROR at line 1:
ORA-00936: missing expression


SQL> SELECT INSTR('character','r',1,1) POS1,
INSTR('character','r',1,2) POS2, INSTR('character','a',-1,2)
POS3,INSTR('character','c',) POS4 FROM dual;
SELECT INSTR('character','r',1,1) POS1, INSTR('character','r',1,2)
POS2, INSTR('character','a',-1,2) POS3,INSTR('character','c',)
POS4 FROM dual
```

```
      *
ERROR at line 1:
ORA-00936: missing expression


SQL> select LTRIM('datawarehousing','ing') trim1   ,
LTRIM('datawarehousing ') trim2, LTRIM('datawarehousing')
trim3, LTRIM('datawarehousing','data') trim4 from dual;


TRIM1 TRIM2 TRIM3 TRIM4
------------- --------------- --------------- -----------
datawarehousing datawarehousing datawarehousing warehousing


SQL> select RTRIM('datawarehousing','ing') trim1   ,
RTRIM('datawarehousing ') trim2, RTRIM('datawarehousing')
trim3, RTRIM('datawarehousing','data') trim4 from dual;


TRIM1 TRIM2 TRIM3 TRIM4
---------- --------------- --------------- ---------------
datawarehous datawarehousing datawarehousing datawarehousing


SQL> SELECT REPLACE ('Oracle', 'Ora', 'Arti') replace_exa FROM
Dual;


REPLACE
```

Article

SQL> SELECT ABS(-25) "Abs" FROM DUAL;

Abs

25

SQL> SELECT ACOS(.28)"Arc_cosine" FROM DUAL;

Arc_cosine

1.28700222

SQL> SELECT ASIN(.6)"Arc_Sine" FROM DUAL;

Arc_Sine

.643501109

SQL> SELECT ATAN(.6)"Arc_Tangent" FROM DUAL;

Arc_Tangent

```
----------
5404195

SQL> SELECT CEIL(239.8) FROM DUAL;

CEIL(239.8)
----------
240

SQL> SELECT FLOOR(15.65) "Floor" FROM DUAL;

Floor
----------
15

SQL> SELECT MOD(11,3) "Mod" FROM DUAL;

Mod
----------
2

SQL> SELECT POWER(3,2) "Power" FROM DUAL;

Power
```

```
----------
9

SQL> SELECT ROUND(43.698,1) "Round" FROM DUAL;

Round
----------
43.7

SQL> SELECT TRUNC(12.75,1) "Trunc" FROM DUAL;

Trunc
----------
12.7

SQL> SELECT SYSDATE, ADD_MONTHS(SYSDATE,2),
ADD_MONTHS(SYSDATE,-2)
2 FROM DUAL;

SYSDATE ADD_MONTH ADD_MONTH
--------- --------- ---------
22-FEB-22 22-APR-22 22-DEC-21

SQL> SELECT NEXT_DAY('22-FEB-22','SUN') "next day" FROM
```

```
DUAL;

next day
---------
27-FEB-22


SQL> SELECT SYSDATE, TRUNC(SYSDATE,'MM'),
TRUNC(SYSDATE,'yyyy') FROM DUAL;

SYSDATE  TRUNC(SYS TRUNC(SYS
-------- --------- ---------
22-FEB-22 01-FEB-22 01-JAN-22


SQL> SELECT MONTHS_BETWEEN('22-FEB-22', '22-FEB-23'  )
FROM DUAL;

MONTHS_BETWEEN('22-FEB-22','22-FEB-23')
---------------------------------------
-12


SQL> SELECT MONTHS_BETWEEN('22-FEB-23', '22-FEB-22'  )
FROM DUAL;

MONTHS_BETWEEN('22-FEB-23','22-FEB-22')
---------------------------------------
```

```
Table created.

SQL> CREATE TABLE sales(
2 sales_id NUMBER NOT NULL,
3 sale_date DATE,
4 sale_amount NUMBER,
5 salesperson VARCHAR(255),
6 store_state VARCHAR(255),
7 order_id VARCHAR(255)
8           );
CREATE TABLE sales(
*
ERROR at line 1:
ORA-00955: name is already used by an existing object


SQL> CREATE TABLE VIEWDEMO(
2 sales_id NUMBER NOT NULL,
3 sale_date DATE,
4 sale_amount NUMBER,
5 salesperson VARCHAR(255),
6 store_state VARCHAR(255),
7 order_id VARCHAR(255)
8           );

Table created.
```

```
SQL> DESC VIEWDEMO;
Name Null? Type
--------------------------------------- ----------
------------------------------

SALES_ID NOT NULL NUMBER
SALE_DATE DATE
SALE_AMOUNT NUMBER
SALESPERSON VARCHAR2(255)
STORE_STATE VARCHAR2(255)
ORDER_ID VARCHAR2(255)

SQL> SET LINESIZE 5000;
SQL> SET PAGESIZE 5000;
SQL> INSERT INTO VIEWDEMO VALUES (1001,'23 May
2020',1200,'Raj K','KA','1001');
INSERT INTO VIEWDEMO VALUES (1001,'23 May
2020',1200,'Raj K','KA','1001')
*
ERROR at line 1:
ORA-03135: connection lost contact
Process ID: 11241
Session ID: 45 Serial number: 49858
```