EXP 2

DML COMMANDS

AIM: To write SQL queries to execute different DML commands.

Data base created for this exercise is:

```
SQL> CREATE TABLE SALES
  2  (
  3       ID VARCHAR2(2) NOT NULL,
  4       NAME VARCHAR2(40) NOT NULL,
  5       CITY CHAR(35),
  6       STATE VARCHAR2(35) NOT NULL,
  7       PRODUCT VARCHAR2(35),
  8       MODEL VARCHAR2(35),
  9       PAYMENT NUMBER(12) NOT NULL,
 10       CONTACT NUMBER(12) NOT NULL
 11  );

Table created.
```

QUERIES:

1)SELECT :

Syntax,

SELECT column_name1, column_name2, …

FROM table_name

WHERE condition_ expression;

Example:

Select customer_id, sale_date, order_id, store_state from customers;

Select * from customers;

```
SQL> SELECT ID, PRODUCT, PAYMENT, CONTACT FROM SALES;

ID PRODUCT                                  PAYMENT    CONTACT
-- ---------------------------------- ---------- ----------
S1 VIVO                                      20000 9985777403
S2 IQOO                                      18000 7012495553
S3 REDMI                                     18000 7012495553
S4 OPPO                                      23000 7994311844
S5 IPHONE                                    75000 9160684117

SQL> SELECT * FROM SALES;

ID NAME                                      CITY
-- ---------------------------------------- ----------------------------------
STATE                                PRODUCT
------------------------------------ ----------------------------------
MODEL                                   PAYMENT    CONTACT
------------------------------------ ---------- ----------
S1 CHITRA                                    CHENNAI
TAMILNADU                            VIVO
V15                                       20000 9985777403

S2 JAGGU                                     BANGLORE
KARNATAKA                            IQOO
Z5                                        18000 7012495553

ID NAME                                      CITY
-- ---------------------------------------- ----------------------------------
STATE                                PRODUCT
------------------------------------ ----------------------------------
MODEL                                   PAYMENT    CONTACT
------------------------------------ ---------- ----------

S3 MANI                                      VIJAYAWADA
ANDHRA                               REDMI
Q1                                        18000 7012495553

S4 JOHN                                      MUMBAI
MAHARASHTRA                          OPPO

ID NAME                                      CITY
-- ---------------------------------------- ----------------------------------
STATE                                PRODUCT
------------------------------------ ----------------------------------
MODEL                                   PAYMENT    CONTACT
------------------------------------ ---------- ----------
I8                                        23000 7994311844

S5 MEERA                                     CALICUT
KERELA                               IPHONE
13PRO                                     75000 9160684117
```

2)INSERT:

Syntax,

INSERT INTO table_name (column_name_1, column_name_2, column_name_3, ...)

VALUES (value1, value2, value3, ...)

```
SQL> INSERT INTO SALES VALUES('S1','CHITRA','CHENNAI','TAMILNADU','VIVO','V15','20000','9985777403');

1 row created.

SQL> INSERT INTO SALES VALUES('S2','JAGGU','BANGLORE','KARNATAKA','IQOO','Z5','18000','7012495553');

1 row created.

SQL> INSERT INTO SALES VALUES('S3','MANI','VIJAYAWADA','ANDHRA','REDMI','Q1','18000','7012495553');

1 row created.

SQL> INSERT INTO SALES VALUES('S4','JOHN','MUMBAI','MAHARASHTRA','OPPO','I8','23000','7994311844');

1 row created.

SQL> INSERT INTO SALES VALUES('S5','MEERA','CALICUT','KERELA','IPHONE','13PRO','75000','9160684117');

1 row created.
```

```
SQL> INSERT INTO SALES(ID, NAME, CITY, STATE, PRODUCT, MODEL, PAYMENT, CONTACT)
  2  VALUES('S6','ANKITA','CALCUTTA','BENGAL','SAMSUNG','TAB5','45000','9885927403');

1 row created.

SQL> SELECT ID, NAME, PRODUCT, MODEL FROM SALES;

ID NAME                                    PRODUCT
-- --------------------------------------- -----------------------------------
MODEL
-----------------------------------
S1 CHITRA                                  VIVO
V15

S2 JAGGU                                   IQOO
Z5

S3 MANI                                    REDMI
Q1


ID NAME                                    PRODUCT
-- --------------------------------------- -----------------------------------
MODEL
-----------------------------------
S4 JOHN                                    OPPO
I8

S5 MEERA                                   IPHONE
13PRO

S6 ANKITA                                  SAMSUNG
TAB5


6 rows selected.
```

3)DELETE:

Syntax,

DELETE FROM table_name WHERE condition;

Example,

DELETE FROM customers

WHERE store_state = 'MH'

AND customer_id = '1001';

*exp2.lst - Notepad

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```
SQL> DELETE FROM SALES
  2  WHERE ID = 'S5';

1 row deleted.

SQL> SELECT ID, PRODUCT, PAYMENT FROM SALES;

ID PRODUCT                                   PAYMENT
-- ----------------------------------- ----------
S1 VIVO                                       20000
S2 IQOO                                       18000
S3 REDMI                                      18000
S4 OPPO                                       23000
S6 SAMSUNG                                    45000

SQL> DELETE FROM SALES
  2  WHERE ID = 'S6'
  3  AND PRODUCT = 'SAMSUNG';

1 row deleted.

SQL> SELECT ID, PRODUCT, PAYMENT FROM SALES;

ID PRODUCT                                   PAYMENT
-- ----------------------------------- ----------
S1 VIVO                                       20000
S2 IQOO                                       18000
S3 REDMI                                      18000
S4 OPPO                                       23000

SQL> spool off
```

4)UPDATE:

Syntax,

UPDATE table_name

SET column_name_1 = value1, column_name_2 = value2, ...

WHERE condition;

```
SQL> UPDATE SALES
  2  SET PAYMENT = '90000'
  3  WHERE ID = 'S5';

1 row updated.

SQL> SELECT ID, PRODUCT, PAYMENT FROM SALES;

ID PRODUCT                                PAYMENT
-- ------------------------------------ ----------
S1 VIVO                                      20000
S2 IQOO                                      18000
S3 REDMI                                     18000
S4 OPPO                                      23000
S5 IPHONE                                    90000
S6 SAMSUNG                                   45000

6 rows selected.
```

RESULT: Thus the DML commands are used to modify or manipulate data records present in the customer database tables.

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