EXPERIMENT 4

-- Create CLIENT_MASTER table

CREATE DATABASE company_data;

USE company_data;


```sql
CREATE TABLE CLIENT_MASTER (
    CLIENTNO VARCHAR(6) PRIMARY KEY CHECK (CLIENTNO LIKE 'C%'),
    NAME VARCHAR(20) NOT NULL,
    ADDRESS1 VARCHAR(30),
    ADDRESS2 VARCHAR(30),
    CITY VARCHAR(15),
    PINCODE INTEGER,
    STATE VARCHAR(15),
    BALDUE DECIMAL(10, 2)
);
```


-- Create PRODUCT_MASTER table

```sql
CREATE TABLE PRODUCT_MASTER (
    PRODUCTNO VARCHAR(6) PRIMARY KEY CHECK (PRODUCTNO LIKE 'P%'),
    DESCRIPTION VARCHAR(15) NOT NULL,
    PROFITPERCENT DECIMAL(4, 2) NOT NULL,
    UNIT_MEASURE VARCHAR(10) NOT NULL,
    QTYONHAND INTEGER NOT NULL,
    REORDERLVL INTEGER NOT NULL,
    SELLPRICE DECIMAL(8, 2) NOT NULL,
    COSTPRICE DECIMAL(8, 2) NOT NULL
);
```


-- Create SALESMAN_MASTER table

CREATE TABLE SALESMAN_MASTER (

```sql
    SALESMANNO VARCHAR(6) PRIMARY KEY CHECK (SALESMANNO LIKE 'S%'),

    SALESMANNAME VARCHAR(20) NOT NULL,

    ADDRESS1 VARCHAR(30) NOT NULL,

    ADDRESS2 VARCHAR(30),

    CITY VARCHAR(20),

    PINCODE INTEGER,

    STATE VARCHAR(20),

    SALAMT REAL NOT NULL CHECK (SALAMT > 0),

    TGTTOGET DECIMAL(6, 2) NOT NULL CHECK (TGTTOGET > 0),

    YTDSALES DOUBLE PRECISION NOT NULL,

    REMARKS VARCHAR(60)
);


-- Insert data into CLIENT_MASTER
INSERT INTO CLIENT_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)
VALUES
('C00001', 'Ivan Bayross', 'Mumbai', 400054, 'Maharashtra', 15000),

('C00002', 'Mamta Muzumdar', 'Madras', 780001, 'Tamil Nadu', 0),

('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000),

('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0),

('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000),

('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);


-- Insert data into PRODUCT_MASTER
INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE,
QTYONHAND, REORDERLVL, SELLPRICE, COSTPRICE)
VALUES
('P00001', 'T-Shirt', 5, 'Piece', 200, 50, 350, 250),

('P0345', 'Shirts', 6, 'Piece', 150, 50, 500, 350),

('P06734', 'Cotton Jeans', 5, 'Piece', 100, 20, 600, 450),

('P07865', 'Jeans', 5, 'Piece', 100, 20, 750, 500),
```

```
('P07868', 'Trousers', 2, 'Piece', 150, 50, 850, 550),

('P07885', 'Pull Overs', 2.5, 'Piece', 80, 30, 700, 450),

('P07965', 'Denim Jeans', 4, 'Piece', 100, 40, 350, 250),

('P07975', 'Lycra Tops', 5, 'Piece', 70, 30, 300, 175),

('P08865', 'Skirts', 5, 'Piece', 75, 30, 450, 300);


-- Insert data into SALESMAN_MASTER

INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY,
PINCODE, STATE)

VALUES

('S00001', 'Aman', 'A/14', 'Worli', 'Mumbai', 400002, 'Maharashtra'),

('S00002', 'Omkar', '65', 'Nariman', 'Mumbai', 400001, 'Maharashtra'),

('S00003', 'Raj', 'P-7', 'Bandra', 'Mumbai', 400032, 'Maharashtra'),

('S00004', 'Ashish', 'A/5', 'Juhu', 'Mumbai', 400044, 'Maharashtra');


-- Select statements

SELECT NAME FROM CLIENT_MASTER;

SELECT * FROM CLIENT_MASTER;

SELECT NAME, CITY, STATE FROM CLIENT_MASTER;

SELECT * FROM PRODUCT_MASTER;

SELECT * FROM CLIENT_MASTER WHERE CITY = 'Mumbai';

SELECT SALESMANNAME FROM SALESMAN_MASTER WHERE SALAMT = 3000;


-- Update statements

UPDATE CLIENT_MASTER SET CITY = 'Bangalore' WHERE CLIENTNO = 'C00005';

UPDATE CLIENT_MASTER SET BALDUE = 1000 WHERE CLIENTNO = 'C00001';

UPDATE PRODUCT_MASTER SET COSTPRICE = 950 WHERE DESCRIPTION = 'Trousers';

UPDATE SALESMAN_MASTER SET CITY = 'Pune';


-- Delete statements

DELETE FROM SALESMAN_MASTER WHERE SALAMT = 3500;
```

DELETE FROM PRODUCT_MASTER WHERE QTYONHAND = 100;

DELETE FROM CLIENT_MASTER WHERE STATE = 'Tamil Nadu';

-- Select entire tables after modifications

SELECT * FROM CLIENT_MASTER;

SELECT * FROM PRODUCT_MASTER;

SELECT * FROM SALESMAN_MASTER;

```
mysql> SELECT NAME FROM CLIENT_MASTER;
+----------------+
| NAME           |
+----------------+
| Ivan Bayross   |
| Mamta Muzumdar |
| Chhaya Bankar  |
| Ashwini Joshi  |
| Hansel Colaco  |
| Deepak Sharma  |
+----------------+
6 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM CLIENT_MASTER;
+----------+----------------+----------+----------+-----------+---------+-------------+----------+
| CLIENTNO | NAME           | ADDRESS1 | ADDRESS2 | CITY      | PINCODE | STATE       | BALDUE   |
+----------+----------------+----------+----------+-----------+---------+-------------+----------+
| C00001   | Ivan Bayross   | NULL     | NULL     | Mumbai    | 400054  | Maharashtra | 15000.00 |
| C00002   | Mamta Muzumdar | NULL     | NULL     | Madras    | 780001  | Tamil Nadu  |     0.00 |
| C00003   | Chhaya Bankar  | NULL     | NULL     | Mumbai    | 400057  | Maharashtra |  5000.00 |
| C00004   | Ashwini Joshi  | NULL     | NULL     | Bangalore | 560001  | Karnataka   |     0.00 |
| C00005   | Hansel Colaco  | NULL     | NULL     | Mumbai    | 400060  | Maharashtra |  2000.00 |
| C00006   | Deepak Sharma  | NULL     | NULL     | Mangalore | 560050  | Karnataka   |     0.00 |
+----------+----------------+----------+----------+-----------+---------+-------------+----------+
6 rows in set (0.00 sec)
```

```
mysql> SELECT NAME, CITY, STATE FROM CLIENT_MASTER;
+----------------+-----------+-------------+
| NAME           | CITY      | STATE       |
+----------------+-----------+-------------+
| Ivan Bayross   | Mumbai    | Maharashtra |
| Mamta Muzumdar | Madras    | Tamil Nadu  |
| Chhaya Bankar  | Mumbai    | Maharashtra |
| Ashwini Joshi  | Bangalore | Karnataka   |
| Hansel Colaco  | Mumbai    | Maharashtra |
| Deepak Sharma  | Mangalore | Karnataka   |
+----------------+-----------+-------------+
6 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM PRODUCT_MASTER;
+-----------+-------------+---------------+--------------+-----------+------------+-----------+-----------+
| PRODUCTNO | DESCRIPTION | PROFITPERCENT | UNIT_MEASURE | QTYONHAND | REORDERLVL | SELLPRICE | COSTPRICE |
+-----------+-------------+---------------+--------------+-----------+------------+-----------+-----------+
| P00001    | T-Shirt     |          5.00 | Piece        |       200 |         50 |    350.00 |    250.00 |
| P0345     | Shirts      |          6.00 | Piece        |       150 |         50 |    500.00 |    350.00 |
| P06734    | Cotton Jeans|          5.00 | Piece        |       100 |         20 |    600.00 |    450.00 |
| P07865    | Jeans       |          5.00 | Piece        |       100 |         20 |    750.00 |    500.00 |
| P07868    | Trousers    |          2.00 | Piece        |       150 |         50 |    850.00 |    550.00 |
| P07885    | Pull Overs  |          2.50 | Piece        |        80 |         30 |    700.00 |    450.00 |
| P07965    | Denim Jeans |          4.00 | Piece        |       100 |         40 |    350.00 |    250.00 |
| P07975    | Lycra Tops  |          5.00 | Piece        |        70 |         30 |    300.00 |    175.00 |
| P08865    | Skirts      |          5.00 | Piece        |        75 |         30 |    450.00 |    300.00 |
+-----------+-------------+---------------+--------------+-----------+------------+-----------+-----------+
9 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM CLIENT_MASTER WHERE CITY = 'Mumbai';
+----------+---------------+----------+----------+--------+---------+-------------+----------+
| CLIENTNO | NAME          | ADDRESS1 | ADDRESS2 | CITY   | PINCODE | STATE       | BALDUE   |
+----------+---------------+----------+----------+--------+---------+-------------+----------+
| C00001   | Ivan Bayross  | NULL     | NULL     | Mumbai | 400054  | Maharashtra | 15000.00 |
| C00003   | Chhaya Bankar | NULL     | NULL     | Mumbai | 400057  | Maharashtra | 5000.00  |
| C00005   | Hansel Colaco | NULL     | NULL     | Mumbai | 400060  | Maharashtra | 2000.00  |
+----------+---------------+----------+----------+--------+---------+-------------+----------+
3 rows in set (0.00 sec)

mysql> SELECT SALESMANNAME FROM SALESMAN_MASTER WHERE SALAMT = 3000;
Empty set (0.00 sec)

mysql>
mysql> -- Update statements
mysql> UPDATE CLIENT_MASTER SET CITY = 'Bangalore' WHERE CLIENTNO = 'C00005';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE CLIENT_MASTER SET BALDUE = 1000 WHERE CLIENTNO = 'C00001';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE PRODUCT_MASTER SET COSTPRICE = 950 WHERE DESCRIPTION = 'Trousers';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE SALESMAN_MASTER SET CITY = 'Pune';
```

```
mysql> UPDATE PRODUCT_MASTER SET COSTPRICE = 950 WHERE DESCRIPTION = 'Trousers';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE SALESMAN_MASTER SET CITY = 'Pune';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0

mysql>
mysql> -- Delete statements
mysql> DELETE FROM SALESMAN_MASTER WHERE SALAMT = 3500;
Query OK, 0 rows affected (0.00 sec)

mysql> DELETE FROM PRODUCT_MASTER WHERE QTYONHAND = 100;
Query OK, 3 rows affected (0.00 sec)

mysql> DELETE FROM CLIENT_MASTER WHERE STATE = 'Tamil Nadu';
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> -- Select entire tables after modifications
mysql> SELECT * FROM CLIENT MASTER;
```

```
mysql> -- Select entire tables after modifications
mysql> SELECT * FROM CLIENT_MASTER;
+----------+---------------+----------+----------+-----------+---------+-------------+---------+
| CLIENTNO | NAME          | ADDRESS1 | ADDRESS2 | CITY      | PINCODE | STATE       | BALDUE  |
+----------+---------------+----------+----------+-----------+---------+-------------+---------+
| C00001   | Ivan Bayross  | NULL     | NULL     | Mumbai    | 400054  | Maharashtra | 1000.00 |
| C00003   | Chhaya Bankar | NULL     | NULL     | Mumbai    | 400057  | Maharashtra | 5000.00 |
| C00004   | Ashwini Joshi | NULL     | NULL     | Bangalore | 560001  | Karnataka   | 0.00    |
| C00005   | Hansel Colaco | NULL     | NULL     | Bangalore | 400060  | Maharashtra | 2000.00 |
| C00006   | Deepak Sharma | NULL     | NULL     | Mangalore | 560050  | Karnataka   | 0.00    |
+----------+---------------+----------+----------+-----------+---------+-------------+---------+
5 rows in set (0.00 sec)

mysql> SELECT * FROM PRODUCT_MASTER;
+-----------+-------------+---------------+--------------+-----------+------------+-----------+-----------+
| PRODUCTNO | DESCRIPTION | PROFITPERCENT | UNIT_MEASURE | QTYONHAND | REORDERLVL | SELLPRICE | COSTPRICE |
+-----------+-------------+---------------+--------------+-----------+------------+-----------+-----------+
| P00001    | T-Shirt     | 5.00          | Piece        | 200       | 50         | 350.00    | 250.00    |
| P0345     | Shirts      | 6.00          | Piece        | 150       | 50         | 500.00    | 350.00    |
| P07868    | Trousers    | 2.00          | Piece        | 150       | 50         | 850.00    | 950.00    |
| P07885    | Pull Overs  | 2.50          | Piece        | 80        | 30         | 700.00    | 450.00    |
| P07975    | Lycra Tops  | 5.00          | Piece        | 70        | 30         | 300.00    | 175.00    |
| P08865    | Skirts      | 5.00          | Piece        | 75        | 30         | 450.00    | 300.00    |
+-----------+-------------+---------------+--------------+-----------+------------+-----------+-----------+
6 rows in set (0.00 sec)
```