FAIZAN CHOUDHARY

20BCS021

DBMS LAB

7th February 2022

Creation:

- mysql> create database 20bcs021_faizan;
- mysql> use 20bcs021_faizan;
- mysql> create table client_master

```
        -> (
        -> client_no        varchar(6),
        -> name             varchar(20),
        -> address1         varchar(30),
        -> address2         varchar(30),
        -> city             varchar(15),
        -> pin_code         int(8),
        -> state            varchar(15),
        -> bal_due          int(10)
        -> );
```

- mysql> insert into client_master
```
        -> values ('C00001', 'Ivan Bayross', 'B/5', 'Mira Rd',
'Mumbai', 400001, 'Maharashtra', 15000),
        -> ('C00002', 'Mamta Mazumdar', 'P-4', 'Chennai',
'Madras', 780001, 'Tamil Nadu', 0),
        -> ('C00003', 'Chhaya Bankar', 'A/10', 'Juhu', 'Mumbai',
400057, 'Maharashtra', 5000),
        -> ('C00004', 'Ashwini Joshi', 'J-5', 'Alur', 'Bangalore',
560001, 'Karnataka', 0),
        -> ('C00005', 'Hansei Colaco', 'D-8', 'Vile Parle',
'Mumbai', 400060, 'Maharashtra', 2000),
        -> ('C00006', 'Deepak Sharma', 'E/2', 'Attur',
'Mangalore', 560050, 'Karnataka', 0);
```

- mysql> select * from client_master;

```
mysql> select * from client_master;
+-----------+-----------------+----------+------------+-----------+----------+-------------+---------+
| client_no | name            | address1 | address2   | city      | pin_code | state       | bal_due |
+-----------+-----------------+----------+------------+-----------+----------+-------------+---------+
| C00001    | Ivan Bayross    | B/5      | Mira Rd    | Mumbai    |   400001 | Maharashtra |   15000 |
| C00002    | Mamta Mazumdar  | P-4      | Chennai    | Madras    |   780001 | Tamil Nadu  |       0 |
| C00003    | Chhaya Bankar   | A/10     | Juhu       | Mumbai    |   400057 | Maharashtra |    5000 |
| C00004    | Ashwini Joshi   | J-5      | Alur       | Bangalore |   560001 | Karnataka   |       0 |
| C00005    | Hansei Colaco   | D-8      | Vile Parle | Mumbai    |   400060 | Maharashtra |    2000 |
| C00006    | Deepak Sharma   | E/2      | Attur      | Mangalore |   560050 | Karnataka   |       0 |
+-----------+-----------------+----------+------------+-----------+----------+-------------+---------+
6 rows in set (0.00 sec)
```

- mysql> create table product_master

```
    -> (
    -> product_no      varchar(6),
    -> product_name    varchar(15),
    -> quantity        float (5,2),
    -> piece           varchar(10),
    -> qty_on_hand     int(8),
    -> tax             int(5),
    -> cost_price      int(8),
    -> sale_price      int(8)
    -> );
```

- mysql> insert into product_master values

```
    -> ('P00001', 'T-Shirts', 5.00, 'Piece', 200, 50, 350, 250),
    -> ('P0345', 'Shirts', 6.00, 'Piece', 150, 50, 500, 350),
    -> ('P06734', 'Cotton Jeans', 5.00, 'Piece', 100, 20, 600, 450),
    -> ('P07865', 'Jeans', 5.00, 'Piece', 100, 20, 750, 500),
    -> ('P07868', 'Trousers', 2.00, 'Piece', 150, 50, 850, 550),
    -> ('P07885', 'Pull Overs', 2.50, 'Piece', 150, 50, 850, 550),
    -> ('P07868', 'Denim Shirts', 4.00, 'Piece', 100, 40, 350, 250),
    -> ('P07868', 'Lycra Tops', 5.00, 'Piece', 70, 30, 300, 175),
    -> ('P07868', 'Skirts', 5.00, 'Piece', 75, 30, 450, 300);
```
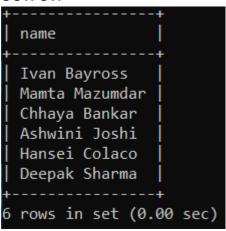
- mysql> select * from product_master;

```
mysql> select * from product_master;
+------------+--------------+----------+-------+-------------+------+------------+------------+
| product_no | product_name | quantity | piece | qty_on_hand | tax  | cost_price | sale_price |
+------------+--------------+----------+-------+-------------+------+------------+------------+
| P00001     | T-Shirts     |     5.00 | Piece |         200 |   50 |        350 |        250 |
| P0345      | Shirts       |     6.00 | Piece |         150 |   50 |        500 |        350 |
| P06734     | Cotton Jeans |     5.00 | Piece |         100 |   20 |        600 |        450 |
| P07865     | Jeans        |     5.00 | Piece |         100 |   20 |        750 |        500 |
| P07868     | Trousers     |     2.00 | Piece |         150 |   50 |        850 |        550 |
| P07885     | Pull Overs   |     2.50 | Piece |         150 |   50 |        850 |        550 |
| P07868     | Denim Shirts |     4.00 | Piece |         100 |   40 |        350 |        250 |
| P07868     | Lycra Tops   |     5.00 | Piece |          70 |   30 |        300 |        175 |
| P07868     | Skirts       |     5.00 | Piece |          75 |   30 |        450 |        300 |
+------------+--------------+----------+-------+-------------+------+------------+------------+
9 rows in set (0.00 sec)
```

Queries:

1.   **Find out the name of all the clients.**

```
mysql> select name
    -> from client_master;
```

OUTPUT:

```
+-----------------+
| name            |
+-----------------+
| Ivan Bayross    |
| Mamta Mazumdar  |
| Chhaya Bankar   |
| Ashwini Joshi   |
| Hansei Colaco   |
| Deepak Sharma   |
+-----------------+
6 rows in set (0.00 sec)
```

2.   **Retrieve the entire contents of the client_master table.**

```
mysql> select * from client_master;
```

OUTPUT:

```
mysql> select * from client_master;
+-----------+----------------+----------+------------+-----------+----------+-------------+---------+
| client_no | name           | address1 | address2   | city      | pin_code | state       | bal_due |
+-----------+----------------+----------+------------+-----------+----------+-------------+---------+
| C00001    | Ivan Bayross   | B/5      | Mira Rd    | Mumbai    |   400001 | Maharashtra |   15000 |
| C00002    | Mamta Mazumdar | P-4      | Chennai    | Madras    |   780001 | Tamil Nadu  |       0 |
| C00003    | Chhaya Bankar  | A/10     | Juhu       | Mumbai    |   400057 | Maharashtra |    5000 |
| C00004    | Ashwini Joshi  | J-5      | Alur       | Bangalore |   560001 | Karnataka   |       0 |
| C00005    | Hansei Colaco  | D-8      | Vile Parle | Mumbai    |   400060 | Maharashtra |    2000 |
| C00006    | Deepak Sharma  | E/2      | Attur      | Mangalore |   560050 | Karnataka   |       0 |
+-----------+----------------+----------+------------+-----------+----------+-------------+---------+
6 rows in set (0.00 sec)
```

3.   **Retrieve the list of names, city and the state of all the clients.**

```
mysql> select name, city, state
    -> from client_master;
```
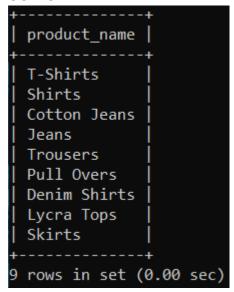
OUTPUT:

```
+-----------------+-----------+-------------+
| name            | city      | state       |
+-----------------+-----------+-------------+
| Ivan Bayross    | Mumbai    | Maharashtra |
| Mamta Mazumdar  | Madras    | Tamil Nadu  |
| Chhaya Bankar   | Mumbai    | Maharashtra |
| Ashwini Joshi   | Bangalore | Karnataka   |
| Hansei Colaco   | Mumbai    | Maharashtra |
| Deepak Sharma   | Mangalore | Karnataka   |
+-----------------+-----------+-------------+
6 rows in set (0.00 sec)
```

4.   **List the various products available from the product_master table.**
```
mysql> select product_name
    -> from product_master;
```

OUTPUT:

```
+--------------+
| product_name |
+--------------+
| T-Shirts     |
| Shirts       |
| Cotton Jeans |
| Jeans        |
| Trousers     |
| Pull Overs   |
| Denim Shirts |
| Lycra Tops   |
| Skirts       |
+--------------+
9 rows in set (0.00 sec)
```

5.   **List all the clients who live in Mumbai.**
```
mysql> select name
    -> from client_master
    -> where city = 'Mumbai';
```

OUTPUT:

```
+---------------+
| name          |
+---------------+
| Ivan Bayross  |
| Chhaya Bankar |
| Hansei Colaco |
+---------------+
3 rows in set (0.01 sec)
```

6.   Change the city of client_no 'C00005' to 'Bangalore'

```
mysql> update client_master
    -> set city = 'Bangalore'
    -> where client_no = 'C00005';
```
Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from client_master;
```

OUTPUT:

```
mysql> select * from client_master;
+-----------+----------------+----------+------------+-----------+----------+------------+----------+
| client_no | name           | address1 | address2   | city      | pin_code | state      | bal_due  |
+-----------+----------------+----------+------------+-----------+----------+------------+----------+
| C00001    | Ivan Bayross   | B/5      | Mira Rd    | Mumbai    |   400001 | Maharashtra|    15000 |
| C00002    | Mamta Mazumdar | P-4      | Chennai    | Madras    |   780001 | Tamil Nadu |        0 |
| C00003    | Chhaya Bankar  | A/10     | Juhu       | Mumbai    |   400057 | Maharashtra|     5000 |
| C00004    | Ashwini Joshi  | J-5      | Alur       | Bangalore |   560001 | Karnataka  |        0 |
| C00005    | Hansei Colaco  | D-8      | Vile Parle | Bangalore |   400060 | Maharashtra|     2000 |
| C00006    | Deepak Sharma  | E/2      | Attur      | Mangalore |   560050 | Karnataka  |        0 |
+-----------+----------------+----------+------------+-----------+----------+------------+----------+
6 rows in set (0.00 sec)
```

7.   Change the bal_due of client_no 'C00001' to Rs. 1000.

```
mysql> update client_master
    -> set bal_due = 1000
    -> where client_no = 'C00001';
```
Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from client_master;
```

OUTPUT:

```
+-----------+----------------+----------+------------+-----------+----------+------------+----------+
| client_no | name           | address1 | address2   | city      | pin_code | state      | bal_due  |
+-----------+----------------+----------+------------+-----------+----------+------------+----------+
| C00001    | Ivan Bayross   | B/5      | Mira Rd    | Mumbai    |   400001 | Maharashtra|     1000 |
| C00002    | Mamta Mazumdar | P-4      | Chennai    | Madras    |   780001 | Tamil Nadu |        0 |
| C00003    | Chhaya Bankar  | A/10     | Juhu       | Mumbai    |   400057 | Maharashtra|     5000 |
| C00004    | Ashwini Joshi  | J-5      | Alur       | Bangalore |   560001 | Karnataka  |        0 |
| C00005    | Hansei Colaco  | D-8      | Vile Parle | Bangalore |   400060 | Maharashtra|     2000 |
| C00006    | Deepak Sharma  | E/2      | Attur      | Mangalore |   560050 | Karnataka  |        0 |
+-----------+----------------+----------+------------+-----------+----------+------------+----------+
6 rows in set (0.00 sec)
```

8.   Change the cost_price of 'Trousers' to Rs. 950.

```
mysql> update product_master
    -> set cost_price = 950
    -> where product_name = 'Trousers';
```
Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from product_master;
```

OUTPUT:

```
+------------+--------------+----------+-------+-------------+------+------------+------------+
| product_no | product_name | quantity | piece | qty_on_hand | tax  | cost_price | sale_price |
+------------+--------------+----------+-------+-------------+------+------------+------------+
| P00001     | T-Shirts     |     5.00 | Piece |         200 |   50 |        350 |        250 |
| P0345      | Shirts       |     6.00 | Piece |         150 |   50 |        500 |        350 |
| P06734     | Cotton Jeans |     5.00 | Piece |         100 |   20 |        600 |        450 |
| P07865     | Jeans        |     5.00 | Piece |         100 |   20 |        750 |        500 |
| P07868     | Trousers     |     2.00 | Piece |         150 |   50 |        950 |        550 |
| P07885     | Pull Overs   |     2.50 | Piece |         150 |   50 |        850 |        550 |
| P07868     | Denim Shirts |     4.00 | Piece |         100 |   40 |        350 |        250 |
| P07868     | Lycra Tops   |     5.00 | Piece |          70 |   30 |        300 |        175 |
| P07868     | Skirts       |     5.00 | Piece |          75 |   30 |        450 |        300 |
+------------+--------------+----------+-------+-------------+------+------------+------------+
9 rows in set (0.00 sec)
```

9.   Delete all products from product_master where the qty_on_hand is equal to 100.

```
mysql> delete from product_master
    -> where qty_on_hand = 100;
```
Query OK, 3 rows affected (0.01 sec)

```
mysql> select * from product_master;
```

OUTPUT:

```
+------------+--------------+----------+-------+-------------+------+------------+------------+
| product_no | product_name | quantity | piece | qty_on_hand | tax  | cost_price | sale_price |
+------------+--------------+----------+-------+-------------+------+------------+------------+
| P00001     | T-Shirts     |     5.00 | Piece |         200 |   50 |        350 |        250 |
| P0345      | Shirts       |     6.00 | Piece |         150 |   50 |        500 |        350 |
| P07868     | Trousers     |     2.00 | Piece |         150 |   50 |        950 |        550 |
| P07885     | Pull Overs   |     2.50 | Piece |         150 |   50 |        850 |        550 |
| P07868     | Lycra Tops   |     5.00 | Piece |          70 |   30 |        300 |        175 |
| P07868     | Skirts       |     5.00 | Piece |          75 |   30 |        450 |        300 |
+------------+--------------+----------+-------+-------------+------+------------+------------+
6 rows in set (0.00 sec)
```