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Lab - 4

2. Exercise on retrieving records from a table.

- a. Find out the names of all the clients.

```
select name from CLIENT_MASTER;
```

```
+-----+
| name |
+-----+
| Ivan Bayross |
| Mamta Muzumdar |
| Chhaya Bankar |
| Ashwini Joshi |
| Hansel Colaco |
| Deepak Sharma |
+-----+
6 rows in set (0.01 sec)
```

- b. Retrieve the entire contents of the Client_Master table.

```
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)
```

- c. Retrieve the list of names, city and the state of all the clients.

```
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)

d. List the various products available from the Product_Master table.

select description from PRODUCT_MASTER;

description
T-Shirt
Shirts
Cotton Jeans
Jeans
Trousers
Pull Overs
Denim Jeans
Lycra Tops
Skirts

9 rows in set (0.00 sec)

e. List all the clients who are located in Mumbai.

select name from CLIENT_MASTER where city = 'Mumbai';

name
Ivan Bayross
Chhaya Bankar
Hansel Colaco

3 rows in set (0.00 sec)

f. Find the names of salesman who have a salary equal to Rs.3000.

select salesmanname from SALESMAN_MASTER where SALAMT = 3000;

```
Empty set (0.00 sec)
```

3. Exercise on updating records in a table

- a. Change the city of ClientNo 'C00005' to 'Bangalore'.

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

```
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from CLEINT_MASTER;
ERROR 1146 (42S02): Table 'exp2.cleint_master' doesn't exist
mysql> select * from CLEINT_MASTER;
ERROR 1146 (42S02): Table 'exp2.cleint_master' doesn't exist
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     | Bangalore | 400060  | Maharashtra | 2000.00 |
| C00006   | Deepak Sharma | NULL    | NULL     | Mangalore | 560050  | Karnataka   | 0.00    |
+-----+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

- b. Change the BalDue of ClientNo 'C00001' to Rs.1000.

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

```
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from CLIENT_MASTER;
+-----+-----+-----+-----+-----+-----+-----+-----+
| CLIENTNO | NAME       | ADDRESS1 | ADDRESS2 | CITY      | PINCODE | STATE      | BALDUE |
+-----+-----+-----+-----+-----+-----+-----+-----+
| C00001   | Ivan Bayross | NULL     | NULL     | Mumbai    | 400054  | Maharashtra | 1000.00 |
| 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     | Bangalore | 400060  | Maharashtra | 2000.00 |
| C00006   | Deepak Sharma | NULL    | NULL     | Mangalore | 560050  | Karnataka   | 0.00    |
+-----+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

- c. Change the cost price of 'Trousers' to rs.950.00.

```
UPDATE PRODUCT_MASTER SET COSTPRICE = 950.00 WHERE DESCRIPTION = 'Trousers';
```

```
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

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	950.00
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)
```

d. Change the city of the salesman to Pune.

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

```
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

4. Exercise on deleting records in a table

a. Delete all salesman from the Salesman_Master whose salaries are equal to Rs.3500.

```
DELETE FROM SALESMAN_MASTER WHERE SALAMT = 3500;
```

```
Query OK, 0 rows affected (0.00 sec)
```

b. Delete all products from Product_Master where the quantity on hand is equal to 100.

```
DELETE FROM PRODUCT_MASTER WHERE QTYONHAND = 100;
```

```
Query OK, 3 rows affected (0.01 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)
```

c. Delete from Client_Master where the column state holds the value 'Tamil Nadu'.

```
DELETE FROM CLIENT_MASTER WHERE STATE = 'Tamil Nadu';
```

```
Query OK, 1 row affected (0.01 sec)

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)
```

5. Exercise on altering the table structure

- Add a column called 'Telephone' of data type integer to the Client_Master table.

```
ALTER TABLE CLIENT_MASTER ADD COLUMN TELEPHONE INTEGER;
```

```
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

- Change the size off SellPrice column in Product_Master to 10, 2.

```
ALTER TABLE PRODUCT_MASTER MODIFY COLUMN SELLPRICE DECIMAL(10, 2);
```

```
Query OK, 6 rows affected (0.10 sec)
Records: 6 Duplicates: 0 Warnings: 0

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)
```

6. Exercise on deleting the table structure along with the data

- Destroy the table Client_Master along with its data.

```
DROP TABLE CLIENT_MASTER;
```

```
Query OK, 0 rows affected (0.07 sec)

mysql> desc CLIENT_MASTER;
ERROR 1146 (42S02): Table 'exp2.client_master' doesn't exist
mysql>
```