



EXPERIMENT - 3

DATABASE MANAGEMENT SYSTEMS LAB

Aim

Write queries for retrieving records from table using SELECT command and WHERE clause.

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Aim:

Write queries for retrieving records from table using SELECT command and WHERE clause.

Tools Used:

MariaDB

Procedure:

Find out the names of all the Clients

→ SELECT NAME FROM CLIENT_MASTER;

```
MariaDB [info]> SELECT NAME FROM CLIENT_MASTER;
+-----+
| NAME          |
+-----+
| Ivan          |
| Mamta Muzumdar |
| Chhaya Bankar |
| Ashwini Joshi  |
| Hansel Colaco  |
| Deepak Sharma  |
+-----+
6 rows in set (0.002 sec)
```

Retrieve the entire contents of the Client_Master table

→ SELECT * FROM CLIENT_MASTER;

```
MariaDB [info]> SELECT * FROM CLIENT_MASTER;
+-----+-----+-----+-----+-----+-----+-----+
| CLIENT_NO | NAME          | ADDRESS1 | ADDRESS2 | CITY    | PINCODE | STATE    | BAL_DUE |
+-----+-----+-----+-----+-----+-----+-----+
| C00001    | Ivan          |          |          | Mumbai  | 400054  | Maharashtra | 15000.00 |
| C00002    | Mamta Muzumdar |          |          | Madras   | 780001  | Tamil Nadu  | 0.00    |
| C00003    | Chhaya Bankar |          |          | Mumbai  | 400057  | Maharashtra | 5000.00 |
| C00004    | Ashwini Joshi  |          |          | Banglore | 560001  | Karnataka  | 0.00    |
| C00005    | Hansel Colaco  |          |          | Mumbai  | 400060  | Maharashtra | 2000.00 |
| C00006    | Deepak Sharma  |          |          | Mangalore | 560050  | Karnataka  | 0.00    |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.000 sec)
```

Retrieve the list of names, cities and the states of all the clients

→ SELECT NAME, CITY, STATE FROM CLIENT_MASTER;

```
MariaDB [info]> SELECT NAME, CITY, STATE FROM CLIENT_MASTER;
```

| NAME | CITY | STATE |
|----------------|-----------|-------------|
| Ivan | Mumbai | Maharashtra |
| Mamta Muzumdar | Madras | Tamil Nadu |
| Chhaya Bankar | Mumbai | Maharashtra |
| Ashwini Joshi | Banglore | Karnataka |
| Hansel Colaco | Mumbai | Maharashtra |
| Deepak Sharma | Mangalore | Karnataka |

```
6 rows in set (0.000 sec)
```

Find names of clients from Client_Master whose Bal_Due is Rs.0

→ SELECT NAME FROM CLIENT_MASTER where BAL_DUE = '0';

```
MariaDB [info]> SELECT NAME FROM CLIENT_MASTER where BAL_DUE = '0';
```

| NAME |
|----------------|
| Mamta Muzumdar |
| Ashwini Joshi |
| Deepak Sharma |

```
3 rows in set (0.007 sec)
```

List all the clients who are located in Mumbai.

→ SELECT NAME FROM CLIENT_MASTER where CITY = 'Mumbai';

```
MariaDB [info]> SELECT NAME FROM CLIENT_MASTER where CITY = 'Mumbai';
+-----+
| NAME |
+-----+
| Ivan |
| Chhaya Bankar |
| Hansel Colaco |
+-----+
3 rows in set (0.003 sec)
```

List the various products available from the Product_Mastertable

→ SELECT DESCRIPTION FROM PRODUCT_MASTER;

```
MariaDB [info]> SELECT DESCRIPTION FROM PRODUCT_MASTER;
+-----+
| DESCRIPTION |
+-----+
| T-shirts |
| Shirts |
| CottonJeans |
| Jeans |
| Trousers |
| PullOvers |
| DenimShirts |
| LycraTops |
| Skirts |
+-----+
9 rows in set (0.000 sec)
```

Find the names of salesman who have Sal_Amt = Rs.3000

→ SELECT SALESMAN_NAME FROM SALESMAN_MASTER where SAL_AMT = '3000';

```
MariaDB [info]> SELECT SALESMAN_NAME FROM SALESMAN_MASTER where SAL_AMT = '3000';
+-----+
| SALESMAN_NAME |
+-----+
| Aman          |
| Omkar         |
| Raj           |
+-----+
3 rows in set (0.000 sec)
```

List all Salesman_No who live in city Mumbai

→ SELECT SALESMAN_NO FROM SALESMAN_MASTER where CITY = 'Mumbai';

```
MariaDB [info]> SELECT SALESMAN_NO FROM SALESMAN_MASTER where CITY = 'Mumbai';
+-----+
| SALESMAN_NO |
+-----+
| S00001      |
| S00002      |
| S00003      |
| S00004      |
+-----+
4 rows in set (0.000 sec)
```

Find Product_No whose Price = Rs.150

→ SELECT DESCRIPTION FROM PRODUCT_MASTER WHERE COST_PRICE = '150' or SELL_PRICE = '150';

```
MariaDB [info]> SELECT DESCRIPTION FROM PRODUCT_MASTER WHERE COST_PRICE = '150' or SELL_PRICE = '150';  
Empty set (0.000 sec)
```

Find Product_No of T-Shirts in Product_Master table

→ SELECT PRODUCT_NO FROM PRODUCT_MASTER where DESCRIPTION = 'T-Shirts';

```
MariaDB [info]> SELECT PRODUCT_NO FROM PRODUCT_MASTER where DESCRIPTION = 'T-Shirts';  
+-----+  
| PRODUCT_NO |  
+-----+  
| P00001      |  
+-----+  
1 row in set (0.000 sec)
```

VIVA QUESTIONS:

Que1. What is the use of SELECT command?

Ans.

The SELECT Statement in SQL is used to retrieve or fetch data from a database. We can fetch either the entire table or according to some specified rules. The data returned is stored in a result table. This result table is also called result-set.

Que2. What is the purpose of WHERE clause?

Ans.

The SQL WHERE clause is used to specify a condition while fetching the data from a single table or by joining with multiple tables. If the given condition is satisfied, then only it returns a specific value from the table.

Ques3. Which language supports SELECT command?

Ans.

In most applications, SELECT is the most commonly used data manipulation language (DML) command. As SQL is a declarative programming language, SELECT queries specify a result set, but do not specify how to calculate it.

Que4. How to select entire content of a table?

Ans.

`SELECT * FROM table_name;`

The star will return all the records available in the specified table