

Create table Employee :

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 45
Server version: 8.0.33 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database Task3;
Query OK, 1 row affected (0.01 sec)

mysql> use Task3;
Database changed
mysql> create table Employee(Emp_id int,First_name varchar(20),Last_name varchar(30),Salary int,Joining_date varchar(40),Department varchar(50));
Query OK, 0 rows affected (0.04 sec)

mysql> insert into Employee values(1,"John","Abraham",100000,"01-JAN-13 12:00:00AM","Banking"),(2,"Michael","Clarke",800000,"01-JAN-13 12:00:00AM","Insurance"),(3,"Roy",
,"Thomas",70000,"01-FEB-13 12:00:00AM","Banking");
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from Employee;
+-----+-----+-----+-----+-----+-----+
| Emp_id | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 1 | John | Abraham | 100000 | 01-JAN-13 12:00:00AM | Banking |
| 2 | Michael | Clarke | 800000 | 01-JAN-13 12:00:00AM | Insurance |
| 3 | Roy | Thomas | 70000 | 01-FEB-13 12:00:00AM | Banking |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into Employee values(4,"Tom","Jose",600000,"01-FEB-13 12:00:00AM","Insurance"),(5,"Jerry","Pinto",650000,"01-FEB-13 12:00:00AM","Insurance"),(6,"Philip",
"Mathew",750000,"01-JAN-13 12:00:00AM","Services"),(7,"Hetal","Sarvaiya",650000,"01-JAN-13 12:00:00AM","Services"),(8,"Kiran","Pansaniya",600000,"01-FEB-13 12:00:00AM",
"Insurance");
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from Employee;
```

```
MySQL 8.0 Command Line Client
+-----+-----+-----+-----+-----+-----+
| 1 | John | Abraham | 100000 | 01-JAN-13 12:00:00AM | Banking |
| 2 | Michael | Clarke | 800000 | 01-JAN-13 12:00:00AM | Insurance |
| 3 | Roy | Thomas | 70000 | 01-FEB-13 12:00:00AM | Banking |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into Employee values(4,"Tom","Jose",600000,"01-FEB-13 12:00:00AM","Insurance"),(5,"Jerry","Pinto",650000,"01-FEB-13 12:00:00AM","Insurance"),(6,"Philip",
"Mathew",750000,"01-JAN-13 12:00:00AM","Services"),(7,"Hetal","Sarvaiya",650000,"01-JAN-13 12:00:00AM","Services"),(8,"Kiran","Pansaniya",600000,"01-FEB-13 12:00:00AM",
"Insurance");
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from Employee;
+-----+-----+-----+-----+-----+-----+
| Emp_id | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 1 | John | Abraham | 100000 | 01-JAN-13 12:00:00AM | Banking |
| 2 | Michael | Clarke | 800000 | 01-JAN-13 12:00:00AM | Insurance |
| 3 | Roy | Thomas | 70000 | 01-FEB-13 12:00:00AM | Banking |
| 4 | Tom | Jose | 600000 | 01-FEB-13 12:00:00AM | Insurance |
| 5 | Jerry | Pinto | 650000 | 01-FEB-13 12:00:00AM | Insurance |
| 6 | Philip | Mathew | 750000 | 01-JAN-13 12:00:00AM | Services |
| 7 | Hetal | Sarvaiya | 650000 | 01-JAN-13 12:00:00AM | Services |
| 8 | Kiran | Pansaniya | 600000 | 01-FEB-13 12:00:00AM | Insurance |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> DESC Employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Emp_id | int | YES | | NULL | |
| First_name | varchar(20) | YES | | NULL | |
| Last_name | varchar(30) | YES | | NULL | |
| Salary | int | YES | | NULL | |
| Joining_date | varchar(40) | YES | | NULL | |
| Department | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)

mysql>
```

Create table Incentive:

```
mysql> DESC employee;
```

Field	Type	Null	Key	Default	Extra
Emp_id	int	YES		NULL	
First_name	varchar(20)	YES		NULL	
Last_name	varchar(30)	YES		NULL	
Salary	int	YES		NULL	
Joining_date	varchar(40)	YES		NULL	
Department	varchar(50)	YES		NULL	

```
6 rows in set (0.00 sec)

mysql> create table Incentive(Emp_ref_id int,Incentive_date varchar(20),Incentive_amount int);
Query OK, 0 rows affected (0.03 sec)

mysql> insert into Incentive values(1,"01-FEB-13",5000),(2,"01-FEB-13",3000),(3,"01-FEB-13",4000),(1,"01-JAN-13",4500),(2,"01-JAN-13",3500);
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from Incentive;
```

Emp_ref_id	Incentive_date	Incentive_amount
1	01-FEB-13	5000
2	01-FEB-13	3000
3	01-FEB-13	4000
1	01-JAN-13	4500
2	01-JAN-13	3500

```
5 rows in set (0.00 sec)

mysql> DESC Incentive;
```

Field	Type	Null	Key	Default	Extra
Emp_ref_id	int	YES		NULL	
Incentive_date	varchar(20)	YES		NULL	
Incentive_amount	int	YES		NULL	

```
3 rows in set (0.00 sec)

mysql>
```

- Get First_Name from employee table using Tom name "Employee Name".
- Get FIRST_NAME, Joining Date, and Salary from employee table.

```
Select MySQL 8.0 Command Line Client
+-----+-----+-----+-----+-----+
| Incentive_date | varchar(20) | YES | | NULL | |
| Incentive_amount | int | YES | | NULL | |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from employee where First_name="Tom";
+-----+-----+-----+-----+-----+-----+
| Emp_id | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 4 | Tom | Jose | 600000 | 01-FEB-13 12:00:00AM | Insurance |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.08 sec)

mysql> select First_name from employee;
+-----+
| First_name |
+-----+
| John |
| Michael |
| Roy |
| Tom |
| Jerry |
| Philip |
| Hetal |
| Kiran |
+-----+
8 rows in set (0.00 sec)

mysql> select First_name from employee where First_name="Tom";
+-----+
| First_name |
+-----+
| Tom |
+-----+
1 row in set (0.00 sec)

mysql> select First_name,Joining_date,Salary from employee where First_name="Tom";
+-----+-----+-----+
| First_name | Joining_date | Salary |
+-----+-----+-----+
| Tom | 01-FEB-13 12:00:00AM | 600000 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

- c) Get all employee details from the employee table order by First_Name Ascending and Salary descending?d) Get employee details from employee table whose first name contains 'J'

```
MySQL 8.0 Command Line Client
mysql> select * from employee order by First_name ASC;
+-----+-----+-----+-----+-----+-----+
| Emp_id | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 7 | Hetal | Sarvaiya | 650000 | 01-JAN-13 12:00:00AM | Services |
| 5 | Jerry | Pinto | 650000 | 01-FEB-13 12:00:00AM | Insurance |
| 1 | John | Abraham | 100000 | 01-JAN-13 12:00:00AM | Banking |
| 8 | Kiran | Pansaniya | 600000 | 01-FEB-13 12:00:00AM | Insurance |
| 2 | Michael | Clarke | 800000 | 01-JAN-13 12:00:00AM | Insurance |
| 6 | Philip | Mathew | 750000 | 01-JAN-13 12:00:00AM | Services |
| 3 | Roy | Thomas | 70000 | 01-FEB-13 12:00:00AM | Banking |
| 4 | Tom | Jose | 600000 | 01-FEB-13 12:00:00AM | Insurance |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> select * from employee order by Salary DESC;
+-----+-----+-----+-----+-----+-----+
| Emp_id | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 2 | Michael | Clarke | 800000 | 01-JAN-13 12:00:00AM | Insurance |
| 6 | Philip | Mathew | 750000 | 01-JAN-13 12:00:00AM | Services |
| 5 | Jerry | Pinto | 650000 | 01-FEB-13 12:00:00AM | Insurance |
| 7 | Hetal | Sarvaiya | 650000 | 01-JAN-13 12:00:00AM | Services |
| 4 | Tom | Jose | 600000 | 01-FEB-13 12:00:00AM | Insurance |
| 8 | Kiran | Pansaniya | 600000 | 01-FEB-13 12:00:00AM | Insurance |
| 1 | John | Abraham | 100000 | 01-JAN-13 12:00:00AM | Banking |
| 3 | Roy | Thomas | 70000 | 01-FEB-13 12:00:00AM | Banking |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select * from employee where First_name like 'J%';
+-----+-----+-----+-----+-----+-----+
| Emp_id | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 1 | John | Abraham | 100000 | 01-JAN-13 12:00:00AM | Banking |
| 5 | Jerry | Pinto | 650000 | 01-FEB-13 12:00:00AM | Insurance |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> select * from employee
```

e) Get department wise maximum salary from employee table order by salary ascending?

f) Select first_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000

```
MySQL 8.0 Command Line Client
+----+-----+-----+-----+-----+-----+
| 3 | Roy   | Thomas | 70000 | 01-FEB-13 12:00:00AM | Banking |
| 4 | Tom   | Jose    | 600000 | 01-FEB-13 12:00:00AM | Insurance |
| 5 | Jerry | Pinto   | 650000 | 01-FEB-13 12:00:00AM | Insurance |
| 6 | Phillip | Mathew | 750000 | 01-JAN-13 12:00:00AM | Services |
| 7 | Hetal | Sarvaiya | 650000 | 01-JAN-13 12:00:00AM | Services |
| 8 | Kiran | Pansaniya | 600000 | 01-FEB-13 12:00:00AM | Insurance |
+----+-----+-----+-----+-----+
8 rows in set (0.03 sec)

mysql> select * from incentive;
+----+-----+-----+
| Emp_ref_id | Incentive_date | Incentive_amount |
+----+-----+-----+
| 1 | 01-FEB-13 | 5000 |
| 2 | 01-FEB-13 | 3000 |
| 3 | 01-FEB-13 | 4000 |
| 1 | 01-JAN-13 | 4500 |
| 2 | 01-JAN-13 | 3500 |
+----+-----+-----+
5 rows in set (0.01 sec)

mysql> select Department,MAX(Salary) from employee group by Department;
+-----+-----+
| Department | MAX(Salary) |
+-----+-----+
| Banking | 100000 |
| Insurance | 800000 |
| Services | 750000 |
+-----+-----+
3 rows in set (0.00 sec)

mysql> select First_name,Incentive_amount from employee INNER JOIN incentive ON employee.Emp_id=incentive.Emp_ref_id and Incentive_amount>3000;
+-----+-----+
| First_name | Incentive_amount |
+-----+-----+
| John | 4500 |
| John | 5000 |
| Michael | 3500 |
| Roy | 4000 |
+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

Create After Insert trigger on Employee table which insert records in view table

```
MySQL 8.0 Command Line Client
+----+-----+-----+-----+-----+-----+
| 8 | Kiran | Pansaniya | 600000 | 01-FEB-13 12:00:00AM | Insurance |
+----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> DESC employee;
+----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+----+-----+-----+-----+-----+-----+
| Emp_id | int | YES | | NULL | |
| First_name | varchar(20) | YES | | NULL | |
| Last_name | varchar(30) | YES | | NULL | |
| Salary | int | YES | | NULL | |
| Joining_date | varchar(40) | YES | | NULL | |
| Department | varchar(50) | YES | | NULL | |
+----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)

mysql> DELIMITER //
mysql> CREATE TRIGGER T5
-> After INSERT
-> ON employee FOR EACH ROW
-> BEGIN
-> INSERT INTO employee VALUES (new.Emp_id,new.First_name,new.Last_Name,new.Salary,new.Joining_date,new.Department);
-> END; //
Query OK, 0 rows affected (0.03 sec)

mysql> select * from employee;
+----+-----+-----+-----+-----+-----+
| Emp_id | First_name | Last_name | Salary | Joining_date | Department |
+----+-----+-----+-----+-----+-----+
| 1 | John | Abraham | 100000 | 01-JAN-13 12:00:00AM | Banking |
| 2 | Michael | Clarke | 800000 | 01-JAN-13 12:00:00AM | Insurance |
| 3 | Roy | Thomas | 70000 | 01-FEB-13 12:00:00AM | Banking |
| 4 | Tom | Jose | 600000 | 01-FEB-13 12:00:00AM | Insurance |
| 5 | Jerry | Pinto | 650000 | 01-FEB-13 12:00:00AM | Insurance |
| 6 | Phillip | Mathew | 750000 | 01-JAN-13 12:00:00AM | Services |
| 7 | Hetal | Sarvaiya | 650000 | 01-JAN-13 12:00:00AM | Services |
| 8 | Kiran | Pansaniya | 600000 | 01-FEB-13 12:00:00AM | Insurance |
+----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> insert into employee values(10,"Vaisu","Vaghela",500000,"01-MAY-18 12:00:00AM","Banking");
```