PRACTICAL NO. 3

1. **Display all the fields of employee table.**

SQL> create table employee(EMPNO varchar(10),EMP_NAME varchar(10),DEPT varchar(20),SALARY int,DOJ DATE,BRANCH varchar(10));

SQL>insert into employee values('E101','Amit','Production',45000,'2000-03-12','Bangalore);

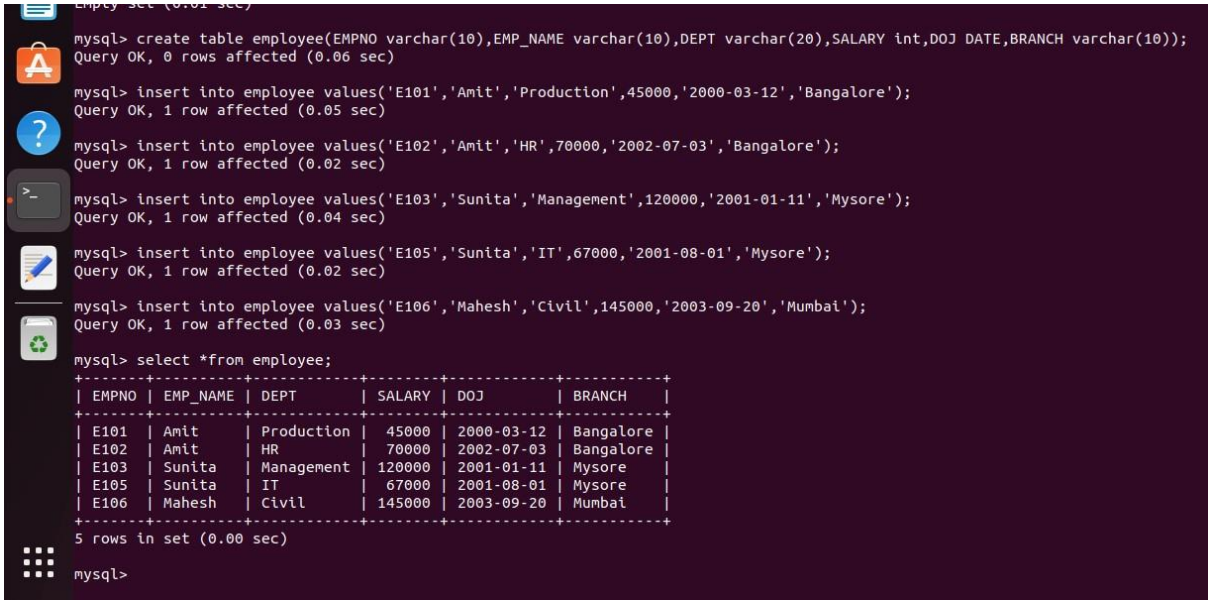
SQL>insert into employee values('E102','Amit','HR',70000,'2002-07-03','Bangalore);

SQL>insert into employee values('E103','Sunita','Management',120000,'2001-01-11','Mysore);

SQL>insert into employee values('E104','Sunita','IT',67000,'2001-08-01','Mysore);

SQL>insert into employee values('E105','Mahesh','Civil',145000,'2003-09-20','Mumbai);

SQL>select *from employee;



```
mysql> create table employee(EMPNO varchar(10),EMP_NAME varchar(10),DEPT varchar(20),SALARY int,DOJ DATE,BRANCH varchar(10));
Query OK, 0 rows affected (0.06 sec)

mysql> insert into employee values('E101','Amit','Production',45000,'2000-03-12','Bangalore');
Query OK, 1 row affected (0.05 sec)

mysql> insert into employee values('E102','Amit','HR',70000,'2002-07-03','Bangalore');
Query OK, 1 row affected (0.02 sec)

mysql> insert into employee values('E103','Sunita','Management',120000,'2001-01-11','Mysore');
Query OK, 1 row affected (0.04 sec)

mysql> insert into employee values('E105','Sunita','IT',67000,'2001-08-01','Mysore');
Query OK, 1 row affected (0.02 sec)

mysql> insert into employee values('E106','Mahesh','Civil',145000,'2003-09-20','Mumbai');
Query OK, 1 row affected (0.03 sec)

mysql> select *from employee;
+-------+----------+------------+--------+------------+-----------+
| EMPNO | EMP_NAME | DEPT       | SALARY | DOJ        | BRANCH    |
+-------+----------+------------+--------+------------+-----------+
| E101  | Amit     | Production |  45000 | 2000-03-12 | Bangalore |
| E102  | Amit     | HR         |  70000 | 2002-07-03 | Bangalore |
| E103  | Sunita   | Management | 120000 | 2001-01-11 | Mysore    |
| E105  | Sunita   | IT         |  67000 | 2001-08-01 | Mysore    |
| E106  | Mahesh   | Civil      | 145000 | 2003-09-20 | Mumbai    |
+-------+----------+------------+--------+------------+-----------+
5 rows in set (0.00 sec)

mysql>
```

2. **Retrieve employee number and their salary.**

SQL>select EMPNO, SALARY from employee;

```
mysql> select EMPNO,SALARY from employee;
+-------+--------+
| EMPNO | SALARY |
+-------+--------+
| E101  |  45000 |
| E102  |  70000 |
| E103  | 120000 |
| E105  |  67000 |
| E106  | 145000 |
+-------+--------+
5 rows in set (0.00 sec)

mysql>
```

3. **Retrieve average salary of all employee.**

SQL>select AVG(SALARY) from employee;

```
mysql> select AVG(SALARY) from employee;
+--------------+
| AVG(SALARY) |
+--------------+
|  89400.0000 |
+--------------+
1 row in set (0.01 sec)

mysql>
```

4. **Retrieve number of employee.**

SQL>select COUNT(*) from employee;

```
mysql> select COUNT(*) from employee;
+----------+
| COUNT(*) |
+----------+
|        5 |
+----------+
1 row in set (0.00 sec)

mysql>
```

5. **Retrieve distinct number of employee.**

SQL>select COUNT(DISTINCT EMP_NAME) from employee;

```
mysql> select COUNT(DISTINCT EMP_NAME) from employee;
+---------------------------+
| COUNT(DISTINCT EMP_NAME) |
+---------------------------+
|                         3 |
+---------------------------+
1 row in set (0.01 sec)

mysql>
```

6. **Retrieve total salary of employee group by employee name and count similar names.**

SQL>select EMP_NAME , SUM(SALARY), COUNT(*) from employee
>GROUP BY(EMP_NAME);

```
mysql> select EMP_NAME,SUM(SALARY),COUNT(*) from employee GROUP BY(EMP_NAME);
+----------+-------------+----------+
| EMP_NAME | SUM(SALARY) | COUNT(*) |
+----------+-------------+----------+
| Amit     |      115000 |        2 |
| Sunita   |      187000 |        2 |
| Mahesh   |      145000 |        1 |
+----------+-------------+----------+
3 rows in set (0.00 sec)
```

7. **Retrieve total salary of employee which is greater than > 120000.**

SQL>select EMP_NAME , SUM(SALARY), COUNT(*) from employee

>GROUP BY(EMP_NAME)

>HAVING SUM(SALARY)>120000;

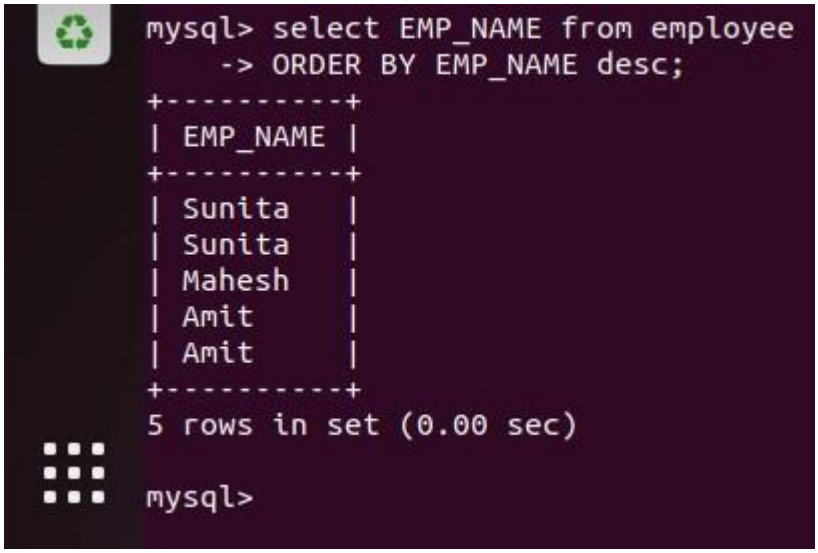
```
mysql> select EMP_NAME,SUM(SALARY) from employee
    -> GROUP BY(EMP_NAME)
    -> HAVING SUM(SALARY)>120000;
+----------+-------------+
| EMP_NAME | SUM(SALARY) |
+----------+-------------+
| Sunita   |      187000 |
| Mahesh   |      145000 |
+----------+-------------+
2 rows in set (0.00 sec)

mysql>
```

8. **Display name of employee in descending order.**

SQL>select EMP_NAME from employee

>ORDER BY EMP_NAME desc;



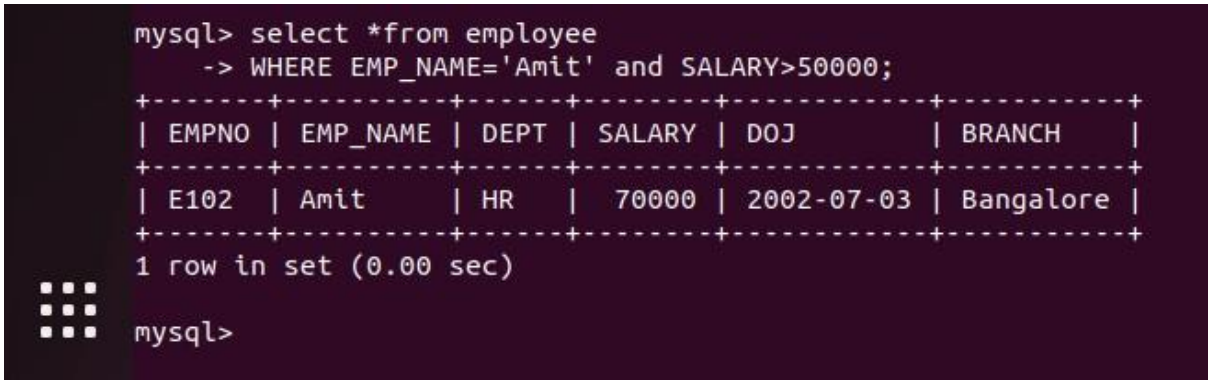
```
mysql> select EMP_NAME from employee
    -> ORDER BY EMP_NAME desc;
+----------+
| EMP_NAME |
+----------+
| Sunita   |
| Sunita   |
| Mahesh   |
| Amit     |
| Amit     |
+----------+
5 rows in set (0.00 sec)

mysql>
```

9. **Display details of employee whose name is AMIT and salary greater than 50000.**

SQL>select *from employee

>WHERE EMP_NAME = ‘Amit’ and SALARY>50000;



```
mysql> select *from employee
    -> WHERE EMP_NAME='Amit' and SALARY>50000;
+-------+----------+------+--------+------------+-----------+
| EMPNO | EMP_NAME | DEPT | SALARY | DOJ        | BRANCH    |
+-------+----------+------+--------+------------+-----------+
| E102  | Amit     | HR   |  70000 | 2002-07-03 | Bangalore |
+-------+----------+------+--------+------------+-----------+
1 row in set (0.00 sec)

mysql>
```