Assignment-5

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Create the table employee and solve the following queries.

Query for creating the above table:

mysql> CREATE TABLE employee(

```
-> emp_id int,
  -> emp_name varchar(20),
  -> salary int,
  -> dept_name varchar(20));
Query OK, 0 rows affected (0.11 sec)
mysql> DESC employee:
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| emp_name | varchar(20) | YES | | NULL | |
| dept_name | varchar(20) | YES | NULL
+----+
4 rows in set (0.03 sec)
mysql> INSERT INTO employee VALUES
  -> (101, 'Amit', 25000, 'IT'),
  -> (102, 'Sunil', 20000, 'Sales'),
  -> (103, 'Rakesh', 18000, 'MKTG'),
  -> (104, 'Ajay', 16000, 'IT'),
```

```
-> (105, 'Suhail', 20000, 'Sales'),
   -> (106, 'Arif', 18000, 'HR'),
   -> (107, 'Suresh', 24000, 'Sales'),
   -> (108, 'Vijay', 22000, 'MKTG');
Query OK, 8 rows affected (0.02 sec)
Records: 8 Duplicates: 0 Warnings: 0
mysql> SELECT * FROM employee;
+----+
| emp_id | emp_name | salary | dept_name |
+----+
   101 | Amit | 25000 | IT
   102 | Sunil | 20000 | Sales
   103 | Rakesh | 18000 | MKTG |
   104 | Ajay | 16000 | IT
   105 | Suhail | 20000 | Sales
   106 | Arif | 18000 | HR
   107 | Suresh | 24000 | Sales
   108 | Vijay | 22000 | MKTG |
+----+
8 rows in set (0.01 sec)
```

1. Display total sum required to pay the salary of all employees.

Answer:

2. Display the average salary, minimum salary, and maximum salary of the company.

```
mysql> SELECT AVG(salary), MAX(salary), MIN(salary)
```

```
-> FROM employee;
+-----+
| AVG(salary) | MAX(salary) | MIN(salary) |
+-----+
| 20375.0000 | 25000 | 16000 |
+----+
1 row in set (0.00 sec)
```

3. Display the sum of salary department-wise.

Answer:

4. Display the maximum salary department-wise.

```
4 rows in set (0.00 sec)
```

5.a. Display the details of the employee who earns the maximum salary.

Answer:

5.b. Display details of every employee having maximum salary in his department.

Answer:

6. Display the details of the employee who earns more salary than the average salary of his department.

```
mysql> SELECT * FROM employee a
   -> WHERE salary > (SELECT AVG(salary) FROM employee b
   -> GROUP BY dept_name
   -> HAVING b.dept_name=a.dept_name);
```

```
+----+
| emp_id | emp_name | salary | dept_name |
+----+
| 101 | Amit | 25000 | IT |
| 107 | Suresh | 24000 | Sales |
| 108 | Vijay | 22000 | MKTG |
+----+
3 rows in set (0.00 sec)
```

7. Display total number of employees.

```
mysql> SELECT COUNT(emp_id) FROM employee;
+-----+
| COUNT(emp_id) |
+-----+
| 8 |
+-----+
1 row in set (0.00 sec)
```