**DBMS Lab**

**Assignment No. 2(MySQL Basic Queries)**

**Title:** Design at least 10 SQL queries for suitable database application using SQL DML statements: Insert, Select, Update, Delete with operators, functions, and set operator.

* **Create Employee table, Project table and add rows shown below**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Eid** | **EName** | **Address** | **Salary** | **Commision** |
| **1** | Amit | Pune | 35000 | 5000 |
| **2** | Sneha | Pune | 25000 |  |
| **3** | Savita | Nasik | 28000 | 2000 |
| **4** | Pooja | Mumbai | 19000 |  |
| **5** | Sagar | Mumbai | 25000 | 3000 |
| **6** | Rohit | Jaipur | 40000 |  |
| **7** | Poonam | Patana | 45000 | 2000 |
| **8** | Arjun | Delhi | 20000 | 900 |
| **9** | Rahul | Nagpur | 60000 | 5000 |
| **10** | Dulquer | Kochi | 30000 | 1000 |

|  |  |
| --- | --- |
| **PrNo** | **Addr** |
| 10 | Mumbai |
| 20 | Pune |
| 30 | Jalgoan |
| 40 | Nagpur |
| 50 | Delhi |
| 60 | Kochi |
| 70 | Pune |
| 80 | Nasik |

* **Execute the following queries in MySQL:**

1. Find different locations from where employees belong to?

select distinct address from Employee;

+---------+

| address |

+---------+

| Pune |

| Nasik |

| Mumbai |

| Jaipur |

| Patna |

| Delhi |

| Nagpur |

| Kochi |

+---------+

1. What are maximum ,minimum salary, average salary and sum of all salaries?

select max(salary) as MaxSalary, min(salary) as MinSalary, avg(salary) as AvgSalary, sum(salary) as TotalSalary from Employee;

+-----------+-----------+------------+-------------+

| MaxSalary | MinSalary | AvgSalary | TotalSalary |

+-----------+-----------+------------+-------------+

| 60000 | 19000 | 32700.0000 | 327000 |

+-----------+-----------+------------+-------------+

1. Display the content of employee table according to the ascending order of salary amount.

select \* from Employee order by salary;

+------+---------+---------+--------+----------+

| e\_id | ename | address | salary | commison |

+------+---------+---------+--------+----------+

| 4 | Pooja | Mumbai | 19000 | NULL |

| 8 | Arjun | Delhi | 20000 | 900 |

| 2 | Sneha | Pune | 25000 | NULL |

| 5 | Sagar | Mumbai | 25000 | 3000 |

| 3 | Savita | Nasik | 28000 | 2000 |

| 10 | Dulquer | Kochi | 30000 | 1000 |

| 1 | Amit | Pune | 35000 | 5000 |

| 6 | Rohit | Jaipur | 40000 | NULL |

| 7 | Poonam | Patna | 45000 | 2000 |

| 9 | Rahul | Nagpur | 60000 | 5000 |

+------+---------+---------+--------+----------+

1. Find the name of employee who lived in Nasik or Pune city.

select \* from Employee where address = 'Nasik' or address = 'Pune';

+------+--------+---------+--------+----------+

| e\_id | ename | address | salary | commison |

+------+--------+---------+--------+----------+

| 1 | Amit | Pune | 35000 | 5000 |

| 2 | Sneha | Pune | 25000 | NULL |

| 3 | Savita | Nasik | 28000 | 2000 |

+------+--------+---------+--------+----------+

1. Find the name of employees who does not get commission.

select \* from Employee where commison is null;

+------+-------+---------+--------+----------+

| e\_id | ename | address | salary | commison |

+------+-------+---------+--------+----------+

| 2 | Sneha | Pune | 25000 | NULL |

| 4 | Pooja | Mumbai | 19000 | NULL |

| 6 | Rohit | Jaipur | 40000 | NULL |

+------+-------+---------+--------+----------+

1. Change the city of Amit to Nashik.

update Employee set address='Nashik' where e\_id=1;

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from Employee;

+------+---------+---------+--------+------------+

| e\_id | ename | address | salary | commission |

+------+---------+---------+--------+------------+

| 1 | Amit | Nashik | 35000 | 5000 |

| 2 | Sneha | Pune | 25000 | NULL |

| 3 | Savita | Nasik | 28000 | 2000 |

| 4 | Pooja | Mumbai | 19000 | NULL |

| 5 | Sagar | Mumbai | 25000 | 3000 |

| 6 | Rohit | Jaipur | 40000 | NULL |

| 7 | Poonam | Patna | 45000 | 2000 |

| 8 | Arjun | Delhi | 20000 | 900 |

| 9 | Rahul | Nagpur | 60000 | 5000 |

| 10 | Dulquer | Kochi | 30000 | 1000 |

+------+---------+---------+--------+------------+

1. Find the information of employees whose name starts with ‘A’.

select \* from Employee where ename like 'A%';

+------+-------+---------+--------+------------+

| e\_id | ename | address | salary | commission |

+------+-------+---------+--------+------------+

| 1 | Amit | Nashik | 35000 | 5000 |

| 8 | Arjun | Delhi | 20000 | 900 |

+------+-------+---------+--------+------------+

1. Find the count of staff from Mumbai.

select count(\*) from Employee where address='Mumbai';

+----------+

| count(\*) |

+----------+

| 2 |

+----------+

1. Find the count of staff from each city

select address, count(\*) from Employee group by address;

+---------+----------+

| address | count(\*) |

+---------+----------+

| Delhi | 1 |

| Jaipur | 1 |

| Kochi | 1 |

| Mumbai | 2 |

| Nagpur | 1 |

| Nashik | 1 |

| Nasik | 1 |

| Patna | 1 |

| Pune | 1 |

+---------+----------+

1. Find the address from where employees are belonging as well as where projects are going on.

(Use union operator)

select address from Employee union select addr from Project;

+---------+

| address |

+---------+

| Nashik |

| Pune |

| Nasik |

| Mumbai |

| Jaipur |

| Patna |

| Delhi |

| Nagpur |

| Kochi |

| Jalgaon |

+---------+

1. Find city wise minimum salary.

select address, min(salary) from Employee group by address;

+---------+-------------+

| address | min(salary) |

+---------+-------------+

| Delhi | 20000 |

| Jaipur | 40000 |

| Kochi | 30000 |

| Mumbai | 19000 |

| Nagpur | 60000 |

| Nashik | 35000 |

| Nasik | 28000 |

| Patna | 45000 |

| Pune | 25000 |

+---------+-------------+

1. Find city wise maximum salary having maximum salary greater than 26000

select address, max(salary) from Employee where salary > 26000 group by address;

+---------+-------------+

| address | max(salary) |

+---------+-------------+

| Kochi | 30000 |

+---------+-------------+

1. Delete the employee who is having salary greater than 30,000.

delete from Employee where salary > 30000;

Query OK, 4 rows affected (0.03 sec)

mysql> select \* from Employee;

+------+---------+---------+--------+------------+

| e\_id | ename | address | salary | commission |

+------+---------+---------+--------+------------+

| 2 | Sneha | Pune | 25000 | NULL |

| 3 | Savita | Nasik | 28000 | 2000 |

| 4 | Pooja | Mumbai | 19000 | NULL |

| 5 | Sagar | Mumbai | 25000 | 3000 |

| 8 | Arjun | Delhi | 20000 | 900 |

| 10 | Dulquer | Kochi | 30000 | 1000 |

+------+---------+---------+--------+------------+

1. Delete the information of employees whose name starts with‘s’.

delete from Employee where ename like 'S%';

Query OK, 3 rows affected (0.03 sec)

mysql> select \* from Employee;

+------+---------+---------+--------+------------+

| e\_id | ename | address | salary | commission |

+------+---------+---------+--------+------------+

| 4 | Pooja | Mumbai | 19000 | NULL |

| 8 | Arjun | Delhi | 20000 | 900 |

| 10 | Dulquer | Kochi | 30000 | 1000 |

+------+---------+---------+--------+------------+

1. Display all the employee from Pune alphabetically.

select \* from Employee where address = 'Pune' order by ename;

Empty set (0.00 sec)