Assignment 1:

1.Display all records from the employee table

mysql> CREATE TABLE employee(EmpID int,EmpName varchar(20),DeptID int,Salary int,HiringDate varchar(20));

DESC employee;

```
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| EmpID    | int         | YES  |     | NULL    |       |
| EmpName  | varchar(20) | YES  |     | NULL    |       |
| DeptID   | int         | YES  |     | NULL    |       |
| Salary   | int         | YES  |     | NULL    |       |
| HireDate | varchar(20) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
```

mysql> INSERT INTO employee VALUES(101,'John',1,50000,'2018-02-12'),(102,'Alice',2,60000,'2019-07-10'),(103,'Bob',1,55000,'2020-05-05'),(104,'Carol',3,45000,'2017-09-20');

mysql> SELECT* FROM employee;

```
+-------+---------+--------+--------+------------+
| EmpID | EmpName | DeptID | Salary | HiringDate |
+-------+---------+--------+--------+------------+
|   101 | John    |      1 |  50000 | 2018-02-12 |
|   102 | Alice   |      2 |  60000 | 2019-07-10 |
|   103 | Bob     |      1 |  55000 | 2020-05-05 |
|   104 | Carol   |      3 |  45000 | 2017-09-20 |
+-------+---------+--------+--------+------------+
```

2.Display only EmpName and Salary of all employess

mysql> SELECT EmpName,Salary FROM employee;

```
+---------+--------+
```

| EmpName | Salary |

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

| John | 50000 |

| Alice | 60000 |

| Bob | 55000 |

| Carol | 45000 |

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

3.find all employees Who belong to the IT department

mysql> SELECT e.EmpName,d.DeptName FROM employee e JOIN dept d ON e.DeptID=d.DeptID WHERE d.DeptName='IT';

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

| EmpName | DeptName |

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

| Alice | IT |

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

4.List employees Whose salary is greater than 50000

mysql>SELECT EmpName FROM employee WHERE Salary > 50000;

+---------+

| EmpName |

+---------+

| Alice |

| Bob |

+---------+

5.find employees hired before 2020-01-01

SELECT * FROM employee WHERE HireDate<2020-01-01;

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

| EmpID | EmpName | DeptID | Salary | HireDate |

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

| 101 | John | 1 | 50000 | 2018-02-12 |

| 102 | Alice | 2 | 60000 | 2019-07-10 |

| 104 | Carol | 3 | 45000 | 2017-09-20 |

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

6.Display employees in descending order of salary

mysql> SELECT* FROM employee ORDER BY Salary DESC;

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

| EmpID | EmpName | DeptID | Salary | HiringDate |

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

| 102 | Alice | 2 | 60000 | 2019-07-10 |

| 103 | Bob | 1 | 55000 | 2020-05-05 |

| 101 | John | 1 | 50000 | 2018-02-12 |

| 104 | Carol | 3 | 45000 | 2017-09-20 |

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

7.Count total number of employees

mysql> SELECTcount(*) AS empcount FROM employee;

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

| empcount |

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

| 4 |

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

8.Find the average salary of all employees

mysql> SELECT avg(salary) FROM employee;

```
+-------------+
| avg(salary) |
+-------------+
|  52500.0000 |
+-------------+
```

9.Find the maximum salary in each department

mysql> select d.deptname ,Max(e.salary)AS max_salary from employee e join dept d on e.deptid=d.deptid group by d.deptname;

```
+----------+------------+
| deptname | max_salary |
+----------+------------+
| HR       |      55000 |
| IT       |      60000 |
| Sales    |      45000 |
+----------+------------+
```

10.Find department having more than 1 employee

mysql> SELECT d.deptname,count(e.empid) AS employee_count FROM employee e JOIN dept d ON e.deptid=d.deptid GROUP BY d.deptname HAVING COUNT(e.empid)>1;

```
+----------+----------------+
| deptname | employee_count |
+----------+----------------+
| HR       |              2 |
+----------+----------------+
```