MANYA JAIN 105221002279 DBMS INTERNAL LAB PRACTICAL

Creating database and tables:

```
mysql> create database manya;
Query OK, 1 row affected (0.08 sec)
mysql> use manya;
Database changed
```

mysql> create table Employee(Empid int(5) primary key, Empname varchar(100), Department varchar(50), ContactNo bigint, EmailId varchar(100), EmpHeadId int(5)); Query OK, 0 rows affected (0.13 sec)

mysql> create table EmpDept(Deptid varchar(50) primary key, Deptname varchar(100), Dept_off varchar(100), DeptHead int references Employee(Empid)); Query OK, 0 rows affected (0.11 sec)

```
wouls create table Empisialary(EmpId int references Employee(Empid), Salary bigint, IsPermannent varchar(3));
Abery (N, 0 ross affected (0.0) sec)
New (N, 0 ross (Ross (N, 0 ross))
New (N, 0 ross)
New (N, 0 ross (Ross (N, 0 ross))
New (N, 0 ross)
New (
```

```
mysql> insert into EmpSalary values(101,2000,"Yes"),(102,10000,"Yes"),(103,5000,"No"),(104,1900,"Yes"),(105,2300,"Yes");
Query OK, 5 rows affected (0.08 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> insert into Project values("p-1",23),("p-2",15),("p-3",45),("p-4",2),("p-5",30);
Query OK, 5 rows affected (0.03 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> select* from EmpSalary;
 EmpId | Salary | IsPermanenet |
              2000
     102
             10000
     103
              5000
     104
              1900
    105
              2300 Yes
 rows in set (0.00 sec)
mysql> select* from Project;
 ProjectId | Duration |
 p-1
 p-2
 p-3
                        30
 rows in set (0.00 sec)
```

QUERY SOLUTIONS:

ANS 1.

```
mysql> select * from Employee where EmpName like "p%";
+-----+
| Empid | Empname | Department | ContactNo | EmailId | EmpHeadId |
+-----+
| 102 | Priya | E-104 | 1234567890 | priya@gmail.com | 103 |
+-----+
1 row in set (0.06 sec)
```

ANS 2.

```
mysql> select * from EmpSalary where (IsPermanenet="Yes" AND Salary > 5000);

+-----+

| EmpId | Salary | IsPermanenet |

+----+

| 102 | 10000 | Yes |

+----+

1 row in set (0.04 sec)
```

ANS 3.

```
mysql> select * from Employee where EmailId like "%gmail.com";
 Empid | Empname | Department | ContactNo | EmailId
                                                               | EmpHeadId |
                                             isha@gmail.com
         Isha
                  E-101
                                1234567890
                                                                       105
   101
         Priya
                                1234567890
                                             priya@gmail.com
   102
                   E-104
                                                                       103
         Neha
                                1234567890
                                             neha@gmail.com
   103
                    E-101
                                                                       101
                                1234567890
                                             rahul@gmail.com
   104
         Rahul
                    E-102
                                                                       105
                                             abhishek@gmail.com
   105 | Abhishek | E-101
                                1234567890
                                                                       105
5 rows in set (0.00 sec)
```

ANS 4.

```
mysql> select * from EmpDept where Deptid="E-104" OR Deptid="E-102";

+-----+

| Deptid | Deptname | Dept_off | DeptHead |

+-----+

| E-102 | Development | Tuesday | 101 |

| E-104 | Sales | Sunday | 104 |

+-----+

2 rows in set (0.05 sec)
```

ANS 5.

ANS 6.

```
mysql> select sum(Salary) as Salary from EmpSalary where IsPermanenet="Yes";

+-----+

| Salary |

+-----+

| 16200 |

+-----+

1 row in set (0.05 sec)
```

ANS 7.

```
mysql> select * from Employee where EmpName like "%a";
 Empid | Empname | Department | ContactNo | EmailId
                                                           EmpHeadId
                             | 1234567890 | isha@gmail.com
   101 | Isha
                  E-101
                                                                  105
   102
       Priya
                 E-104
                             1234567890
                                           priya@gmail.com
                                                                  103
   103 Neha
                 E-101
                             1234567890
                                           neha@gmail.com
                                                                  101
3 rows in set (0.00 sec)
```

Ans 8.

Ans 9.

Ans 10.

```
mysql> select count(projectid) as project from empproject where startyear=endyear;

+-----+
| project |

+-----+
| 1 |

+-----+
1 row in set (0.00 sec)
```

Ans 11.