SQL QUERY ASSIGNMENT

First I write the schema of each table:-

1. Employee:-

CREATE TABLE Employee(EmpId int PRIMARY KEY,EmpName varchar(50), Department varchar(50),ContactNo bigint, EmailId varchar(50), EmpHeadId int);

1. EmpDept:-

CREATE TABLE EmpDept(DeptId varchar(50) PRIMARY KEY,DeptName varchar(50), Dept\_off varchar(50), DeptHead int FOREIGN KEY REFERENCES Employee(EmpId));

1. EmpSalary:-

CREATE TABLE EmpSalary(EmpId int FOREIGN KEY REFERENCES Employee(EmpId), Salary int, IsPermanent varchar(3));

1. Project:-

CREATE TABLE Project(ProjectId varchar(50) PRIMARY KEY, Duration int);

1. Country:-

CREATE TABLE Country(cid varchar(50) PRIMARY KEY, cname varchar(50));

1. ClientTable:-

CREATE TABLE ClientTable(ClientId varchar(50) PRIMARY KEY, ClientName varchar(50), cid varchar(50) REFERENCES Country(cid));

1. EmpProject:-

CREATE TABLE EmpProject(EmpId int FOREIGN KEY REFERENCES Employee(EmpId), ProjectId varchar(50) FOREIGN KEY REFERENCES Project(ProjectId), ClientId varchar(50) FOREIGN KEY REFERENCES ClientTable(ClientId),StartYear int, EndYear int);

QUERIES:-

Q1. Select the detail of the employee whose name starts with P?

ANS. SELECT \* FROM Employee WHERE EmpName LIKE ‘p%’;

Q2. How many permanent candidates take a salary more than 5000?

Ans. SELECT COUNT(Salary) AS Count FROM EmpSalary WHERE IsPermanent='yes' AND Salary>5000;

Q3. Select the detail of the employee whose emailId is in gmail?

ANS. SELECT \* FROM Employee WHERE EmailId LIKE '%@gmail.com';

Q4. Select the details of the employee who works either for department E-104 or E-102?

ANS. SELECT \* FROM Employee WHERE Department IN ('E-102','E-104');

Q5. What is the department name for DeptID E-102?

ANS. SELECT DeptName FROM EmpDept WHERE DeptId ='E-102';

Q6.  What is the total salary that is paid to permanent employees?

ANS. SELECT SUM(Salary) AS Salary FROM EmpSalary WHERE IsPermanent='yes';

Q7. List name of all employees whose name ends with a.?

ANS. SELECT \* FROM Employee WHERE EmpName LIKE '%a';

Q8.  List the number of departments of employees in each project?

ANS. SELECT COUNT(EmpId) AS Employee, ProjectId FROM EmpProject GROUP BY ProjectId;

Q9.  How many projects started in 2010?

ANS. SELECT COUNT(ProjectId) AS Project FROM EmpProject WHERE StartYear=2010;

Q10. How many projects started and finished in the same year?

ANS. SELECT COUNT(ProjectId) AS Project FROM EmpProject WHERE StartYear=EndYear;

Q11. select the name of the employee whose name's 3rd character is 'h'?

ANS. SELECT \* FROM Employee WHERE EmpName LIKE '\_\_h%';