Assignment-2

```
CREATE TABLE Dept_Table (
  DeptNo INTEGER PRIMARY KEY,
  dname TEXT NOT NULL,
  loc TEXT NOT NULL
);

CREATE TABLE Emp_Table (
  EmpNo INTEGER PRIMARY KEY,
  Ename TEXT NOT NULL,
  Sal INTEGER NOT NULL,
  Hire_Date date NOT NULL,
  Commission INTEGER,
  DeptNo INTEGER,
  Mgr INTEGER,
  foreign key (DeptNo) references Dept_Table(DeptNo)
);



INSERT INTO Dept_Table VALUES (10, 'Accounts', 'Bangalore');
INSERT INTO Dept_Table VALUES (20,"IT","Delhi");
INSERT INTO Dept_Table VALUES (30,"Production","Chennai");
INSERT INTO Dept_Table VALUES (40,"Sales","hyd");
INSERT INTO Dept_Table VALUES (50, "Admin","London");

insert into emp_table values (1001, "Sachin",19000,"1980-01-01",2100,20,1003);
insert into emp_table values (1002,"Kapil",15000,"1970-01-01",2300,10,1003);
insert into emp_table values (1003,"Stefen",12000,"1990-01-01",500,20,1007);
```

```
insert into emp_table values (1004,"Williams",9000,"2001-01-01",null,30,1007);
insert into emp_table values (1005,"John",5000,"2005-01-01",null,30,1007);
insert into emp_table values (1006,"Dravid",19000,"1985-01-01",2400,10,1007);
insert into emp_table values (1007,"Martin",21000,"2000-01-01",1040,null,null);

/*Select employee details  of dept number 10 or 30*/
SELECT *
FROM Dept_Table
WHERE DeptNo In(10,30);

/*Write a query to fetch all the dept details with more than 1 Employee*/

SELECT DeptNo, COUNT(empno)
FROM emp_table
GROUP BY DeptNo
HAVING COUNT(empno) > 1;

/*Write a query to fetch employee details whose name starts with the letter “S”*/
SELECT *
FROM emp_table
WHERE Ename LIKE 'S%';

/*Select Emp Details Whose experience is more than 2 years*/

SELECT EmpNo, Ename, Sal, Hire_Date, DATEDIFF(NOW(), Hire_Date) /365 AS experience_years
FROM Emp_Table
WHERE DATEDIFF(NOW(), Hire_Date) > 730;

/*Write a SELECT statement to replace the char “a” with “#” in Employee Name ( Ex:  Sachin as
S#chin)*/
```

```
SELECT REPLACE(Ename, 'a', '#') AS Ename
FROM Emp_Table;

/*Write a query to fetch employee name and his/her manager name. */

SELECT e1.Ename AS EmployeeName, e2.Ename AS ManagerName
FROM Emp_Table e1
INNER JOIN Emp_Table e2 ON e1.Mgr = e2.EmpNo;

/*Fetch Dept Name , Total Salry of the Dept*/

SELECT d.dname AS DepartmentName, SUM(e.Sal) AS TotalSalary
FROM Emp_Table e
INNER JOIN Dept_Table d ON e.DeptNo = d.DeptNo
GROUP BY d.dname;

/*Write a query to fetch ALL the  employee details along with department name, department location, irrespective of employee existance in the department.*/

SELECT e.*, d.dname AS DepartmentName, d.loc AS DepartmentLocation
FROM Emp_Table e
LEFT JOIN Dept_Table d ON e.DeptNo = d.DeptNo;

/*Write an update statement to increase the employee salary by 10% */
UPDATE Emp_Table
set Sal = Sal * 1.1
where sal>5000;
/*Write a statement to delete employees belong to Chennai location.*/
```

```
DELETE FROM Emp_Table
WHERE DeptNo IN (SELECT DeptNo
FROM Dept_Table
WHERE loc = 'Chennai');

/*Get Employee Name and gross salary (sal + comission)*/

SELECT Ename, (Sal + Commission) AS gross_salary
FROM Emp_Table;

/*Increase the data length of the column Ename of Emp table from  100 to 250 using ALTER statement*/

ALTER TABLE Emp_Table
MODIFY Ename VARCHAR(250);

/*Write query to get current datetime*/
SELECT NOW();

/*Write a statement to create STUDENT table, with related 5 columns*/

CREATE TABLE STUDENT (
  ID INT PRIMARY KEY,
  Name VARCHAR(50) NOT NULL,
  Age INT,
  Gender VARCHAR(10),
  City VARCHAR(50)
);
/*Write a query to fetch number of employees in who is getting salary more than 10000*/

SELECT COUNT(ename)
```

```
FROM Emp_Table
WHERE Sal > 10000;

/*Write a query to fetch minimum salary, maximum salary and average salary from emp table.*/
SELECT MIN(Sal) AS min_salary, MAX(Sal) AS max_salary, AVG(Sal) AS avg_salary
FROM Emp_Table;
/* Write a query to fetch number of employees in each  location */
 SELECT loc, COUNT(*) AS Number_of_Employees
 FROM Dept_Table
 INNER JOIN Emp_Table ON Dept_Table.DeptNo = Emp_Table.DeptNo
 GROUP BY loc;

 /* Write a query to display employee names in descending  order */
SELECT Ename
FROM Emp_Table
ORDER BY Ename DESC;

/*Write a statement to create a new table(EMP_BKP) from the existing EMP table*/
 CREATE TABLE Emp_BKP AS SELECT * FROM Emp_Table;

 /* Write a query to fetch first 3 characters from employee  name appended with salary. */
SELECT SUBSTR(Ename, 1, 3) || ' ' || Sal AS Name_and_Salary
FROM Emp_Table;

 /* Get the details of the employees whose name starts  with S */
 SELECT *
 FROM Emp_Table
 WHERE Ename LIKE 'S%';
```

```
/* Get the details of the employees who works in Bangalore  location */

SELECT *

FROM Emp_Table

INNER JOIN Dept_Table ON Emp_Table.DeptNo = Dept_Table.DeptNo

WHERE loc = 'Bangalore';
```

/* Write the query to get the employee details whose name started within any letter between A and K */

```
SELECT *

FROM Emp_Table

WHERE Ename BETWEEN 'A' AND 'K'

/* Write a query in SQL to display the employees whose  manager name is Stefen */

SELECT *

FROM Emp_Table

WHERE Mgr IN (SELECT EmpNo FROM Emp_Table WHERE Ename = 'Stefen');
```

/* Write a query in SQL to list the name of the managers who is having maximum number of employees working under him */

```
SELECT Ename

FROM Emp_Table

WHERE EmpNo IN (SELECT Mgr FROM Emp_Table GROUP BY Mgr

ORDER BY COUNT(*)

DESC LIMIT 1);
```

/* Write a query to display the employee details, department details and the manager details of the employee who has second highest salary */

```
SELECT *

FROM Emp_Table e1

INNER JOIN Dept_Table d ON e1.DeptNo = d.DeptNo

INNER JOIN Emp_Table e2 ON e1.Mgr = e2.EmpNo

WHERE e1.Sal = (SELECT MAX(Sal)

FROM Emp_Table

WHERE Sal < (SELECT MAX(Sal)

FROM Emp_Table));
```

/* Write a query to list all details of all the managers */

```
SELECT *

FROM Emp_Table

WHERE EmpNo IN (SELECT Mgr FROM Emp_Table);
```

/* Write a query to list the details and total experience of all the managers */

```
SELECT Ename, (YEAR(CURRENT_DATE) - YEAR(Hire_Date)) AS Total_Experience
FROM Emp_Table

WHERE EmpNo IN (SELECT Mgr FROM Emp_Table);
```

/* Write a query to list the employees who is manager and takes commission less than 1000 and works in Delhi */

```
SELECT *

FROM Emp_Table e

INNER JOIN Dept_Table d ON e.DeptNo = d.DeptNo

WHERE Mgr IS NOT NULL AND Commission < 1000 AND loc = 'Delhi';
```

/* Write a query to display the details of employees who are senior to Martin */

```
SELECT *

FROM Emp_Table
```