

ASSIGNMENT 2

```
CREATE TABLE Dept (
```

```
    Dept_id INT PRIMARY KEY,
```

```
    Dept_name VARCHAR(50) NOT NULL,
```

```
    Dept_location VARCHAR(50)
```

```
);
```

```
CREATE TABLE Employee (
```

```
    Emp_id INT PRIMARY KEY,
```

```
    Dept_id INT,
```

```
    Emp_fname VARCHAR(50),
```

```
    Emp_lname VARCHAR(50),
```

```
    Emp_Position VARCHAR(50),
```

```
    Emp_salary DECIMAL(10,2),
```

```
    Emp_JoinDate DATE,
```

```
    FOREIGN KEY (Dept_id) REFERENCES Dept(Dept_id) ON DELETE CASCADE
```

```
);
```

```
CREATE TABLE Project(
```

```
    Proj_id INT PRIMARY KEY,
```

```
    Dept_id INT,
```

```
    Proj_Name VARCHAR(40),
```

```
    Proj_Location VARCHAR(30),
```

```
    Proj_cost INT,
```

```
    Proj_year INT,
```

```
    FOREIGN KEY(Dept_id) REFERENCES Dept(Dept_id) ON DELETE CASCADE
```

```
);
```

Use the tables created in assignment no 2A and execute the following queries:

1. Insert at least 10 records in the Employee table and insert other tables accordingly.

```
INSERT INTO Dept(Dept_id,Dept_name,Dept_location) values (1,"Computer","London"),
```

```
(2,"IT","New Work" ),(3,"Finance","India" ),(4,"Marketing","UK" ),(5,"HR","Mumbai" ),
```

```
(6,"SDE","Pune");
```

```

INSERT INTO
Employee(Emp_id,Dept_id,Emp_fname,Emp_lname,Emp_Position,Emp_salary,EMP_JoinDate)
values
(115,1,'Sayali','Pawar','Tester',50000,'1978-6-21'),
(117,6,'Shivani','Pangal','Software Engineer',100000,'1993-2-18'),
(113,4,'Hima','Muthe','Marketing Head',1500000,'1982-6-19'),
(110,5,'Priya','Pawar','HR',100000,'1983-9-19'),
(105,1,'Priyanka','Pawar','Tester',50000,'12-6-21'),
(107,6,'Shivashri','Patil','Software Engineer',100000,'13-2-24'),
(103,4,'Akanksha','Muthe','Marketing Head',1500000,'2-6-21'),
(104,5,'Sakshi','Pawar','HR',100000,'3-9-24');

```

```

INSERT INTO Project (Proj_id, Dept_id, Proj_Name, Proj_Location, Proj_cost, Proj_year)
VALUES (201, 1, 'Library Management System', 'London', 50000, 2004),
(202, 2, 'E-commerce Website', 'New York', 150000, 2007),
(203, 3, 'Finance Tracker', 'India', 75000, 2021),
(204, 4, 'Marketing Analytics', 'UK', 120000, 2023),
(205, 5, 'Employee Portal', 'Mumbai', 90000, 2005),
(206, 6, 'SDE Automation Tool', 'Pune', 200000, 2024);

```

2. Display all Employee details with Department 'Computer' and 'IT' and Employee first name starting with 'p' or 'h'.

```

SELECT * FROM Employee WHERE Dept_id IN
( SELECT Dept_id FROM Dept WHERE Dept_name IN('Computer','IT'))
AND (LOWER(Emp_fname) LIKE 'p%' OR LOWER(Emp_fname) LIKE 'h%');

```

3. Lists the number of different Employee Positions.

```

SELECT COUNT(DISTINCT Emp_Position) AS Num_Position FROM Employee;

```

4. Give 10% increase in Salary of the Employee whose joining year is before 1985.

```

SELECT * FROM Employee WHERE YEAR(EMP_JoinDate)<1985;
UPDATE Employee SET Emp_salary = Emp_salary +(Emp_salary * 0.10);
SELECT * FROM Employee WHERE YEAR(EMP_JoinDate)<1985;

```

5. Delete Department details which location is 'Mumbai'.

```

DELETE FROM Dept WHERE Dept_location = "Mumbai";

```

6. Find the names of Projects with location 'pune' .

```
SELECT Proj_Name FROM Project WHERE Proj_Location="Pune";
```

7. Find the project having cost in between 100000 to 500000.

```
SELECT * FROM Project WHERE Proj_cost BETWEEN 100000 AND 500000;
```

8. Find the project having maximum price and find average of Project cost

```
SELECT * FROM Project WHERE Proj_cost = (SELECT MAX(Proj_cost) FROM Project);
```

9. Display all employees with Emp _id and Emp name in decreasing order of Emp_Iname

```
SELECT Emp_id, Emp_fname,Emp_Iname FROM Employee ORDER BY Emp_Iname DESC;
```

10. Display Proj_name,Proj_location ,Proj_cost of all project started in 2004,2005,2007

```
SELECT Proj_name,Proj_Location,Proj_cost FROM Project WHERE Proj_year IN  
(2004,2005,2007);
```

STUDENT

```
CREATE TABLE PlacementDrive (  
    Drive_id INT PRIMARY KEY,  
    Pcompany_name VARCHAR(50),  
    package DECIMAL(10,2),  
    location VARCHAR(50)  
);
```

```
CREATE TABLE Training (  
    T_id INT PRIMARY KEY,  
    Tcompany_name VARCHAR(50),  
    T_Fee DECIMAL(10,2),  
    T_year INT  
);
```

```
CREATE TABLE Student (  
    s_id INT PRIMARY KEY,  
    Drive_id INT,  
    T_id INT,
```

```

s_name VARCHAR(50),
CGPA DECIMAL(4,2),
s_branch VARCHAR(20),
S_dob DATE,
FOREIGN KEY (Drive_id) REFERENCES PlacementDrive(Drive_id)
    ON DELETE CASCADE,
FOREIGN KEY (T_id) REFERENCES Training(T_id)
    ON DELETE CASCADE
);

CREATE VIEW student_view AS SELECT s.s_id,s.s_name,p.Pcompany_name, s.CGPA FROM
Student s JOIN PlacementDrive p ON s.Drive_id =p.Drive_id;

```

Assignment No 2B Use the tables created in assignment no 2 and execute the following queries:

1. Insert at least 10 records in the Student table and insert other tables accordingly.

```

INSERT INTO PlacementDrive (Drive_id, Pcompany_name, package, location) VALUES
(1, 'Google', 1200000, 'Bangalore'),
(2, 'Amazon', 1100000, 'Hyderabad'),
(3, 'Microsoft', 1150000, 'Noida'),
(4, 'Accenture', 600000, 'Pune'),
(5, 'IBM', 700000, 'Mumbai');
INSERT INTO Training (T_id, Tcompany_name, T_Fee, T_year) VALUES
(201, 'Scaler', 5000, 2023),
(202, 'GeeksforGeeks', 4000, 2022),
(203, 'GreatLearning', 3500, 2024),
(204, 'edX', 6000, 2023),
(205, 'Skillshare', 3000, 2022);
INSERT INTO Student (s_id, Drive_id, T_id, s_name, CGPA, s_branch, S_dob) VALUES
(11, 1, 201, 'Soham Kulkarni', 8.9, 'CSE', '2002-03-15'),
(12, 2, 202, 'Tanvi Deshmukh', 9.1, 'IT', '2003-10-10'),
(13, 3, 203, 'Yash Patil', 7.8, 'ECE', '2001-11-20'),
(14, 4, 204, 'Snehal Rane', 8.4, 'EEE', '2002-06-25'),
(15, 5, 205, 'Omkar Shinde', 8.0, 'CSE', '2003-02-18'),
(16, 1, 201, 'Aishwarya Nair', 8.6, 'IT', '2002-07-30'),
(17, 2, 202, 'Harshad Joshi', 9.3, 'ECE', '2001-12-12'),
(18, 3, 203, 'Rutuja Pawar', 7.9, 'EEE', '2003-01-05'),
(19, 4, 204, 'Nikhil Gaikwad', 8.2, 'CSE', '2002-09-14'),

```

```
(20, 5, 205, 'Vidya More', 8.7, 'IT', '2001-05-09');
```

2. Display all students details with branch 'Computer' and 'IT' and student name starting with 'a' or 'd'.

```
SELECT * FROM Student WHERE (s_branch = 'Computer' OR s_branch = 'IT')  
AND (s_name LIKE 'A%' OR s_name LIKE 'D%');
```

3. list the number of different companies.(use of distinct)

```
SELECT DISTINCT Pcompany_name FROM PlacementDrive;
```

4. Give 15% increase in fee of the Training whose joining year is 2019.

```
UPDATE Training SET T_Fee = T_Fee + (T_Fee * 0.15) WHERE T_year = 2019;
```

5. Delete Student details having CGPA score less than 7.

```
DELETE FROM Student WHERE CGPA < 7;
```

6. Find the names of companies belonging to pune or Mumbai

```
SELECT Pcompany_name FROM PlacementDrive WHERE location = 'Pune' OR location =  
'Mumbai';
```

7. Find the student name who joined training in 1-1-2019 as well as in 1-1-2021

8. Find the student name having maximum CGPA score and names of students having CGPA score between 7 to 9

```
SELECT s_name FROM Student WHERE CGPA = (SELECT MAX(CGPA) FROM Student);
```

9. Display all Student name with T_id with decreasing order of Fees

```
SELECT s_name, T_id FROM Student ORDER BY (SELECT T_Fee FROM Training WHERE  
Training.T_id = Student.T_id) DESC;
```

10. Display PCompany name, S_name ,location and Package with Package 30K, 40K and 50k

```
SELECT
```

```
(SELECT Pcompany_name FROM PlacementDrive p WHERE p.Drive_id = s.Drive_id) AS  
Pcompany_name,
```

```
s.s_name,
```

```
(SELECT location FROM PlacementDrive p WHERE p.Drive_id = s.Drive_id) AS location,
```

```
(SELECT package FROM PlacementDrive p WHERE p.Drive_id = s.Drive_id) AS package
```

```
FROM Student s
```

```
WHERE (SELECT package FROM PlacementDrive p WHERE p.Drive_id = s.Drive_id) IN (30000,  
40000, 50000);
```