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\_lname**

SELECT Emp\_id, Emp\_fname,Emp\_lname FROM Employee ORDER BY Emp\_lname 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);