```
/* ------------------------------------------------------
   ASSIGNMENT 3 - STUDENT SCHEMA (FULL WORKING CODE)
   ------------------------------------------------------ */

-- 1. Create Database
CREATE DATABASE student_a3;
USE student_a3;

-- 2. Create Tables

CREATE TABLE PlacementDrive (
    Drive_id INT PRIMARY KEY,
    Pcompany_name VARCHAR(50),
    package INT,
    location VARCHAR(30)
);

CREATE TABLE Training (
    T_id INT PRIMARY KEY,
    Tcompany_name VARCHAR(50),
    T_Fee INT,
    T_date DATE
);

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

```
    Drive_id INT,
    T_id INT,
    s_name VARCHAR(50),
    CGPA DECIMAL(3,2),
    s_branch VARCHAR(30),
    s_dob DATE,
    FOREIGN KEY (Drive_id) REFERENCES PlacementDrive(Drive_id),
    FOREIGN KEY (T_id) REFERENCES Training(T_id)
);

-- 3. Insert Sample Data

INSERT INTO PlacementDrive VALUES
(1, 'Microsoft', 5, 'Thane'),
(2, 'Google', 12, 'Pune'),
(3, 'TCS', 4, 'Mumbai');

INSERT INTO Training VALUES
(10, 'Microsoft', 30000, '2015-06-20'),
(20, 'Infosys', 15000, '2011-02-10'),
(30, 'Wipro', 18000, '2014-09-15');

INSERT INTO Student VALUES
(101, 1, 10, 'Rohan', 8.5, 'CSE', '2001-04-10'),
(102, 2, 20, 'Shantanu', 7.8, 'IT', '2000-11-05'),
(103, 3, 30, 'Priya', 9.1, 'ENTC', '2002-01-15'),
```

```
(104, 1, 10, 'Amit', 7.5, 'CSE', '2001-05-20');



/* ----------------------------------------------------------
  ASSIGNMENT QUERIES
  ---------------------------------------------------------- */

-- 1. Student details and Placement details using NATURAL JOIN
SELECT *
FROM Student
NATURAL JOIN PlacementDrive;

-- 2. All student details with company_name for same drive
SELECT s.*, p.Pcompany_name
FROM Student s
JOIN PlacementDrive p ON s.Drive_id = p.Drive_id;

-- 3. Students having package = 5 LPA
SELECT s.s_name, s.s_branch
FROM Student s
JOIN PlacementDrive p ON s.Drive_id = p.Drive_id
WHERE p.package = 5;

-- 4. Student names + company name where T_fee > 20000
SELECT s.s_name, t.Tcompany_name
FROM Student s
```

```
JOIN Training t ON s.T_id = t.T_id
WHERE t.T_Fee > 20000;

-- 5. All training details attended by “Shantanu” in 2011
SELECT t.*
FROM Student s
JOIN Training t ON s.T_id = t.T_id
WHERE s.s_name = 'Shantanu'
  AND YEAR(t.T_date) = 2011;

-- 6. Total number of companies conducting training before 2015
SELECT COUNT(DISTINCT Tcompany_name) AS total_companies
FROM Training
WHERE YEAR(T_date) < 2015;

-- 7. Students with company 'Microsoft' and location 'Thane'
SELECT s.s_name
FROM Student s
JOIN PlacementDrive p ON s.Drive_id = p.Drive_id
WHERE p.Pcompany_name = 'Microsoft'
  AND p.location = 'Thane';

-- 8. Students who joined Microsoft training in 2015
SELECT s.s_name
FROM Student s
JOIN Training t ON s.T_id = t.T_id
```

```
WHERE t.Tcompany_name = 'Microsoft'
  AND YEAR(t.T_date) = 2015;

-- 9. Create View showing Student + Training details
CREATE VIEW stud_train_view AS
SELECT s.s_id, s.s_name, s.s_branch,
       t.Tcompany_name, t.T_Fee, t.T_date
FROM Student s
JOIN Training t ON s.T_id = t.T_id;

-- 10A. Insert into View
INSERT INTO stud_train_view
(s_id, s_name, s_branch, Tcompany_name, T_Fee, T_date)
VALUES (200, 'Riya', 'CSE', 'Infosys', 25000, '2022-04-01');

-- 10B. Update View
UPDATE stud_train_view
SET T_Fee = 30000
WHERE s_id = 200;

-- 10C. Delete from View
DELETE FROM stud_train_view
WHERE s_id = 200;

-- 10D. Drop View
DROP VIEW stud_train_view;
```