

Table Structure (Assignment – 5)

-- Create the CompanyDB database

```
CREATE DATABASE CompanyDB;  
USE CompanyDB;
```

-- Create the Departments table

```
CREATE TABLE Departments (  
    dept_id INT PRIMARY KEY AUTO_INCREMENT,  
    dept_name VARCHAR(50) UNIQUE NOT NULL  
);
```

-- Create the Employees table

```
CREATE TABLE Employees (  
    emp_id INT PRIMARY KEY AUTO_INCREMENT,  
    first_name VARCHAR(50) NOT NULL,  
    last_name VARCHAR(50) NOT NULL,  
    email VARCHAR(100) UNIQUE NOT NULL,  
    hire_date DATE NOT NULL,  
    salary DECIMAL(10,2) NOT NULL,  
    dept_id INT,  
    FOREIGN KEY (dept_id) REFERENCES Departments(dept_id) ON DELETE SET NULL  
);
```

-- Create the Projects table

```
CREATE TABLE Projects (  
    project_id INT PRIMARY KEY AUTO_INCREMENT,  
    project_name VARCHAR(100) NOT NULL,  
    dept_id INT,  
    FOREIGN KEY (dept_id) REFERENCES Departments(dept_id) ON DELETE CASCADE  
);
```

-- Insert data into Departments table

```
INSERT INTO Departments (dept_name) VALUES  
('IT'),  
('HR'),  
('Finance'),  
('Marketing'),  
('Operations');
```

-- Insert data into Employees table

```
INSERT INTO Employees (first_name, last_name, email, hire_date, salary, dept_id) VALUES  
('Amit', 'Sharma', 'amit.sharma@example.com', '2022-01-15', 60000.00, 1),  
('Priya', 'Verma', 'priya.verma@example.com', '2021-07-20', 75000.00, 2),  
('Rohit', 'Patel', 'rohit.patel@example.com', '2020-03-12', 80000.00, 3),  
('Sneha', 'Iyer', 'sneha.iyer@example.com', '2019-06-25', 90000.00, 1),  
('Vikram', 'Singh', 'vikram.singh@example.com', '2023-02-10', 55000.00, NULL); -- No department  
assigned
```

-- Insert data into Projects table

```
INSERT INTO Projects (project_name, dept_id) VALUES  
('E-Governance System', 1),  
('Campus Hiring Drive', 2),  
('Budget Planning & Analysis', 3),  
('Social Media Outreach', 4),  
('Logistics Automation', 5);
```