```
CREATE DATABASE CompanyManagementSystem
---Create Tables----
--* Department Table:-
Create table Department(
Department_Id INT PRIMARY KEY,
Department_Name Varchar(100)
);
--* Employee Table:-
CREATE TABLE Employee(
  Employee_Id INT PRIMARY KEY,
  First_Name VARCHAR(50),
  Last_Name VARCHAR(50),
  Email VARCHAR(100),
  Phone_Number VARCHAR(15),
  Hire_Date DATE,
  Job_Title VARCHAR(50),
  Salary DECIMAL(10, 2),
  Department_Id INT,
  FOREIGN KEY (Department_Id) REFERENCES Department(Department_Id)
);
```

--Create Database----

```
--* Project Table:-
CREATE TABLE Project (
  Project_Id INT PRIMARY KEY,
  Project_Name VARCHAR(100),
  Start_Date DATE,
  End_Date DATE,
  Budget DECIMAL(12, 2)
);
--* Employee Table:-
CREATE TABLE EmployeeProject (
  EmployeeProject_Id INT PRIMARY KEY,
  Employee_Id INT,
  Project_Id INT,
  FOREIGN KEY (Employee_Id) REFERENCES Employee(Employee_Id),
  FOREIGN KEY (Project_Id) REFERENCES Project(Project_Id)
);
----Stored Procedures:-
--1. Write a stored procedure to insert a new employee into the `Employee` table. Include
--parameters for first name, last name, email, phone number, hire date, job title, salary, and
--department ID.
```

```
Alter PROCEDURE [dbo].[InsertEmployee]
@Employeeld INT,
  @FirstName VARCHAR(50),
  @LastName VARCHAR(50),
  @Email VARCHAR(100),
  @PhoneNumber VARCHAR(15),
  @HireDate DATE,
  @JobTitle VARCHAR(50),
  @Salary DECIMAL(10, 2),
  @DepartmentId INT
AS
BEGIN
  INSERT INTO [dbo].[Employee] (Employee_Id,First_Name, Last_Name, Email, Phone_Number,
Hire_Date, Job_Title, Salary, Department_Id)
    VALUES (@EmployeeId,@FirstName, @LastName, @Email, @PhoneNumber, @HireDate,
@JobTitle, @Salary, @DepartmentId);
  PRINT 'Data Inserted in Employee Table';
END;
--2. Implement a stored procedure to retrieve an employee's details from the `Employee` table
--based on the employee ID provided as a parameter.
Alter PROCEDURE [dbo].[GetEmployeeDetails]
  @Employeeld INT
AS
```

BEGIN

```
SELECT
    [dbo].[Employee].Employee_Id,
    [dbo].[Employee].First_Name,
    [dbo].[Employee].Last_Name,
    [dbo].[Employee].Email,
    [dbo].[Employee].Phone_Number,
    [dbo].[Employee].Hire_Date,
    [dbo].[Employee].Job_Title,
    [dbo].[Employee].Salary,
    [dbo].[Employee].Department_Id
  FROM [dbo].[Employee]
  WHERE [dbo].[Employee].Employee_ld = @Employeeld;
END;
--3. Develop a stored procedure that updates an existing employee's information in the
--`Employee` table. Include parameters for employee ID, first name, last name, email, phone
--number, hire date, job title, salary, and department ID.
CREATE PROCEDURE [dbo].[UpdateEmployee]
  @Employeeld INT,
  @FirstName NVARCHAR(50),
  @LastName NVARCHAR(50),
  @Email NVARCHAR(100),
  @PhoneNumber NVARCHAR(20),
  @HireDate DATE,
  @JobTitle NVARCHAR(100),
  @Salary DECIMAL(10, 2),
```

@DepartmentId INT

END;

```
BEGIN
  UPDATE [dbo].[Employee]
  SET
    First_Name = @FirstName,
    Last_Name = @LastName,
    Email = @Email,
    Phone_Number = @PhoneNumber,
    Hire_Date = @HireDate,
    Job_Title = @JobTitle,
    Salary = @Salary,
    Department_Id = @DepartmentId
  WHERE Employee_Id = @EmployeeId;
END;
--4. Create a stored procedure to delete an employee from the `Employee` table based on the
--employee ID provided as a parameter.
CREATE PROCEDURE [dbo].[DeleteEmployee]
  @Employeeld INT
AS
BEGIN
  DELETE FROM [dbo].[Employee]
  WHERE Employee_Id = @EmployeeId;
```

```
--5. Write a stored procedure to fetch all employees belonging to a specific department from
--the `Employee` table. Use the department ID as a parameter.
CREATE PROCEDURE [dbo].[GetEmployeesByDepartment]
  @DepartmentId INT
AS
BEGIN
  SELECT
    Employee_Id,
    First_Name,
    Last_Name,
    Email,
    Phone_Number,
    Hire_Date,
    Job_Title,
    Salary,
    Department_Id
  FROM [dbo].[Employee]
  WHERE Department_Id = @DepartmentId;
END;
--6. Develop a stored procedure to retrieve all projects assigned to a specific employee from
--the `Project` table. Use the employee ID as a parameter.
CREATE PROCEDURE [dbo].[GetProjectsByEmployee]
  @Employeeld INT
AS
```

BEGIN

```
p.Project_ld,
    p.Project_Name,
    p.Start_Date,
    p.End_Date,
    p.Budget
  FROM
    [dbo].[Project] p
  INNER JOIN
    [dbo].[EmployeeProject] ep ON p.Project_Id = ep.Project_Id
  WHERE
    ep.Employee_Id = @EmployeeId;
END;
--7. Implement a stored procedure to fetch all employees who are assigned to a particular
--project from the `Employee` table. Use the project ID as a parameter.
CREATE PROCEDURE [dbo].[GetEmployeesByProject]
  @ProjectId INT
AS
BEGIN
  SELECT
    e.Employee_Id,
    e.First_Name,
    e.Last_Name,
    e.Email,
    e.Phone_Number,
    e.Hire_Date,
```

SELECT

```
e.Job_Title,
    e.Salary,
    e.Department_Id
  FROM
    [dbo].[Employee] e
  INNER JOIN
    [dbo].[EmployeeProject] ep ON e.Employee_Id = ep.Employee_Id
  WHERE
    ep.Project Id = @ProjectId;
END;
--8. Create a stored procedure to fetch details of a specific department from the `Department`
--table along with the count of employees in that department. Use the department ID as a
parameter.
CREATE PROCEDURE [dbo].[GetDepartmentDetails]
  @DepartmentId INT
AS
BEGIN
  SELECT
    d.Department_Id,
    d.Department_Name,
    COUNT(e.Employee_Id) AS Employee_Count
  FROM
    [dbo].[Department] d
  LEFT JOIN
    [dbo].[Employee] e ON d.Department_Id = e.Department_Id
  WHERE
```

```
d.Department_ld = @DepartmentId
  GROUP BY
    d.Department_Id, d.Department_Name;
END;
--9. Write a stored procedure to calculate and return the total budget allocated to projects
--within a specific department from the `Project` table. Use the department ID as a parameter.
CREATE PROCEDURE [dbo].[GetTotalBudgetByDepartment]
  @DepartmentId INT
AS
BEGIN
  SELECT
    SUM(p.Budget) AS Total_Budget
  FROM
    [dbo].[Project] p
  INNER JOIN
    [dbo].[EmployeeProject] ep ON p.Project_Id = ep.Project_Id
  INNER JOIN
    [dbo].[Employee] e ON ep.Employee Id = e.Employee Id
  WHERE
    e.Department_Id = @DepartmentId;
END;
--10. Write a stored procedure to retrieve all employees with their Department and Project
information.
CREATE PROCEDURE [dbo].[GetEmployeeDepartmentProjectInfo]
AS
```

BEGIN

```
SELECT
    e.Employee_Id,
    e.First_Name,
    e.Last_Name,
    e.Email,
    e.Phone_Number,
    e.Hire_Date,
    e.Job_Title,
    e.Salary,
    d.Department_Id,
    d.Department_Name,
    p.Project_ld,
    p.Project_Name,
    p.Start_Date,
    p.End_Date,
    p.Budget
  FROM
    [dbo].[Employee] e
  LEFT JOIN
    [dbo].[Department] d ON e.Department_Id = d.Department_Id
  LEFT JOIN
    [dbo].[EmployeeProject] ep ON e.Employee_Id = ep.Employee_Id
  LEFT JOIN
    [dbo].[Project] p ON ep.Project_Id = p.Project_Id;
END;
```