Task:

• Students Table:

- `Student ID` (integer, primary key, not null)
- `StudentName' (nvarchar(50), not null)
- `Email (nvarchar(50), not null)
- `Age` (integer, not null)

• Courses Table :

- `CourseID` (integer, primary key, not null)
- `CourseName` (nvarchar(50), not null)
- `Credits` (integer, not null)
- `StudentID` (integer, foreign key referencing `Students(StudentID)`, not null)

Solution -

Create a table Students -

```
CREATE TABLE Students (
StudentID INT PRIMARY KEY,
StudentName NVARCHAR(50) NOT NULL,
Email NVARCHAR(50) NOT NULL,
Age INT NOT NULL
);
```

Create a table Courses with foreign key -

```
CREATE TABLE Courses (

CourseID INT PRIMARY KEY,

CourseName NVARCHAR(50) NOT NULL,

Credits INT NOT NULL,
```

```
StudentID INT NOT NULL,
  FOREIGN KEY (StudentID) REFERENCES Students(StudentID)
);
# Inserting data into Students table -
INSERT INTO Students (StudentID, StudentName, Email, Age) VALUES
(1, 'Alice Johnson', 'alice.johnson@example.com', 20),
(2, 'Bob Smith', 'bob.smith@example.com', 22),
(3, 'Carol White', 'carol.white@example.com', 21),
(4, 'David Brown', 'david.brown@example.com', 23);
# Inserting data into Employees table -
INSERT INTO Courses (CourseID, CourseName, Credits, StudentID) VALUES
(1, 'Mathematics', 3, 1),
(2, 'Physics', 4, 2),
(3, 'Chemistry', 3, 3),
(4, 'Biology', 4, 4),
(5, 'Computer Science', 3, 2);
# INNER JOIN -
SELECT std.StudentID, std.StudentName, c.CourseName, c.Credits
FROM Students std
INNER JOIN Courses c ON std.StudentID = c.StudentID;
# LEFT JOIN -
SELECT std.StudentID, std.StudentName, c.CourseName, c.Credits
FROM Students std
LEFT JOIN Courses c ON std.StudentID = c.StudentID;
```