

```
CREATE DATABASE StudentManagementSystem;
```

```
USE StudentManagementSystem;
```

```
CREATE TABLE Courses (  
    CourseID INT PRIMARY KEY IDENTITY(1,1),  
    Name NVARCHAR(100),  
    LecturerName NVARCHAR(100)  
);
```

```
CREATE TABLE Students (  
    StudentID INT PRIMARY KEY IDENTITY(1,1),  
    Name NVARCHAR(100),  
    City NVARCHAR(100),  
    CourseID INT, -- Foreign key from Courses table  
    FOREIGN KEY (CourseID) REFERENCES Courses(CourseID) ON DELETE SET NULL  
);
```

```
INSERT INTO Courses (Name, LecturerName)
```

```
VALUES
```

```
('Web Development', 'M.M. Herath'),
```

```
('Graphic Design', 'J.S.V. Piyasena'),
```

```
('Mobile App Development', 'K.K.S. Dias'),
```

```
('Java', 'U.H.S. Perera');
```

```
INSERT INTO Students (Name, City, CourseID)
```

```
VALUES
```

```
('Kasun Gamage', 'Kandy', 2),
```

```
('Daniel Sam', 'Jaffna', 3),
```

```
('Hansi Silva', 'Colombo', 1),
```

```
('Ranidu Heath', 'Matara', 3),
```

```
('Praneeth Wijesinghe', 'Kandy', 4),
```

```
('Nuwani Herath', 'Rathnapura', 1);
```

```
SELECT *
```

```
FROM Students;
```

```
SELECT StudentID, Name, City
```

```
FROM Students
```

```
WHERE City = 'Kandy';
```

```
UPDATE Students
```

```
SET City = 'Galle'
```

```
WHERE StudentID = 4;
```

```
SELECT S.StudentID, S.Name, S.City, C.Name AS CourseName
```

```
FROM Students S
```

```
JOIN Courses C ON S.CourseID = C.CourseID;
```

SQL Server Scripts1 - Microsoft SQL Server Management Studio

Quick Launch (Ctrl+Q)

FileEditViewProjectToolsWindowHelp

New Query

StudentManagementSystem

Execute

Object Explorer

Connect

DESKTOP-Q57C604 (SQL Server 16.0.1000)

Databases

Security

Server Objects

Replication

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XEvent Profiler

SQLQuery1.sql - DE...Q57C604\acer (63)

100 %

Results

Messages

	StudentID	Name	City	CourseID
1	1	Kasun Gamage	Kandy	2
2	2	Daniel Sam	Jaffna	3
3	3	Hansi Silva	Colombo	1
4	4	Ranidu Heath	Matara	3
5	5	Praneeth Wijesinghe	Kandy	4
6	6	Nuwani Herath	Rathnapura	1

	StudentID	Name	City
1	1	Kasun Gamage	Kandy
2	5	Praneeth Wijesinghe	Kandy

	StudentID	Name	City	CourseName
1	1	Kasun Gamage	Kandy	Graphic Design
2	2	Daniel Sam	Jaffna	Mobile App Development
3	3	Hansi Silva	Colombo	Web Development
4	4	Ranidu Heath	Galle	Mobile App Development
5	5	Praneeth Wij...	Kandy	Java
6	6	Nuwani Herath	Rathnapura	Web Development

Query executed successfully.

DESKTOP-Q57C604 (16.0 RTM) | DESKTOP-Q57C604\acer (63) | StudentManagementSystem | 00:00:00 | 2 rows

Ready