

A. Get all the information of all Students.

The screenshot shows the SQL Server Enterprise Manager interface with the 'sms_data' database selected. The Object Explorer on the left shows the database structure, including tables 'Courses' and 'Students'. The SQL Query window on the right displays the following SQL script:

```
CREATE DATABASE sms_data;  
  
CREATE TABLE Courses(  
    ID int PRIMARY KEY NOT NULL IDENTITY(1,1),  
    Name nvarchar(MAX) NOT NULL,  
    LecturerName nvarchar(MAX) NULL,  
);  
  
CREATE TABLE Students(  
    ID int PRIMARY KEY NOT NULL,  
    Name nvarchar(MAX) NOT NULL,  
    City nvarchar(MAX) NOT NULL,  
    CourseID int NOT NULL,  
    FOREIGN KEY (CourseID) REFERENCES Courses(ID)  
);  
  
SELECT * FROM Students;
```

The 'Results' tab shows the output of the query, displaying a table with 6 rows and 5 columns: ID, Name, City, CourseID, and an additional column (likely Name). The data is as follows:

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

The screenshot shows the SQL Query window with the following SQL script:

```
SELECT * FROM Students;  
  
SELECT * FROM Courses;
```

The 'Results' tab shows the output of the query, displaying a table with 4 rows and 4 columns: ID, Name, LecturerName, and an additional column (likely Name). The data is as follows:

ID	Name	LecturerName	
1	Web development	M.M. Herath	
2	Graphic Design	J.S.V. piyasena	
3	Mobile App Development	K.K.S. Dias	
4	Java	U.H.S. Perera	

B. Select student id, name and city from students who are from the 'kandy'.

```
SELECT ID AS 'Student ID',Name,City FROM Students WHERE City='Kandy';
```

100 %

Results Messages

	Student ID	Name	City
1	1	Kasun Gamage	Kandy
2	5	Praneeth Wijesinghe	Kandy

C. Update the City as 'Galle' of the student whose id equals to 4 .

```
UPDATE Students SET City='Galle' WHERE ID='4';
```

100 %

Messages

(1 row(s) affected)

```
SELECT * FROM Students WHERE ID=4;
```

100 %

Results Messages

	ID	Name	City	CourceID
1	4	Ranidu herath	Galle	3

D. Get all the information of all students with their course names.

```
SELECT st.ID as 'Student ID',st.Name,st.City,co.Name as 'Course Name' FROM Students st JOIN Courses co ON st.CourseID=co.ID;
```

100 %

Results Messages

	Student ID	Name	City	Course Name
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 herath	Galle	Mobile App Development
5	5	Praneeth Wijesinghe	Kandy	Java
6	6	Nuwanthi Herath	Rathnapura	Web development