ii) Create a Database and add tables, relationships based on the following diagram.Use appropriate table names, column names and data types

Done using Sandbox SQL due to inability to connect to server in MS SQL

```
CREATE DATABASE StudentCourseDB;

USE StudentCourseDB;

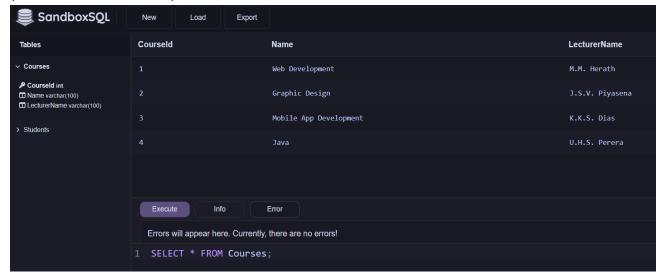
CREATE TABLE Courses (
    Courseld INT PRIMARY KEY,
    Name VARCHAR(100),
    LecturerName VARCHAR(100)
);

CREATE TABLE Students (
    StudentId INT PRIMARY KEY,
    Name VARCHAR(100),
    City VARCHAR(100),
    Courseld INT,
    FOREIGN KEY (CourseId) REFERENCES Courses(CourseId)
);
```

iii) Add following data into tables.

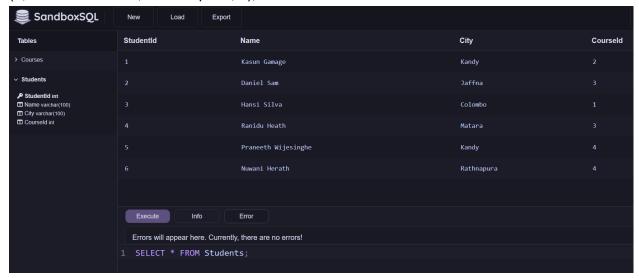
INSERT INTO Courses (Courseld, Name, LecturerName) VALUES

- (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');



INSERT INTO Students (Studentld, Name, City, Courseld) VALUES

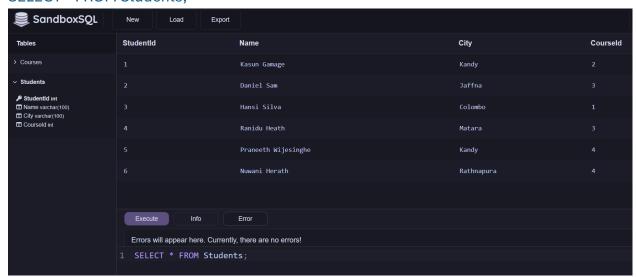
- (1, 'Kasun Gamage', 'Kandy', 2),
- (2, 'Daniel Sam', 'Jaffna', 3),
- (3, 'Hansi Silva', 'Colombo', 1),
- (4, 'Ranidu Heath', 'Matara', 3),
- (5, 'Praneeth Wijesinghe', 'Kandy', 4),
- (6, 'Nuwani Herath', 'Rathnapura', 4);



iv) Write SQL Queries for following scenarios.

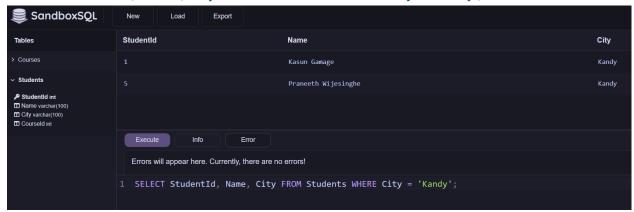
A. Get all the information of all Students.

SELECT * FROM Students;



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

SELECT StudentId, Name, City FROM Students WHERE City = 'Kandy';



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

UPDATE Students SET City = 'Galle' WHERE StudentId = 4; SELECT * FROM Students WHERE StudentId = 4:



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

SELECT s.StudentId, s.Name, s.City, s.CourseId, c.Name AS CourseName,

c.LecturerName

FROM Students s

JOIN Courses c ON s.Courseld = c.Courseld;

