

SQL Queries Answers

iv) Write SQL Queries for following scenarios.(Create a text file and add queries and results)

A) Get all the information of all Students

```
SELECT * FROM Students;
```

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'Student_Info_Manage_Database', including tables 'dbo.Courses' and 'dbo.Students'. The query window on the right contains the SQL query 'SELECT * FROM Students;'. Below the query, the 'Results' tab shows a table with 6 rows and 4 columns: Student_ID, Name, City, and Course_ID.

Student_ID	Name	City	Course_ID
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	1

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

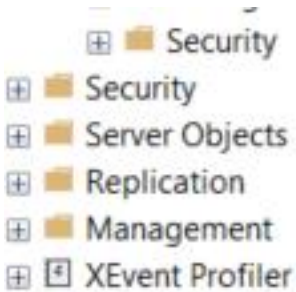
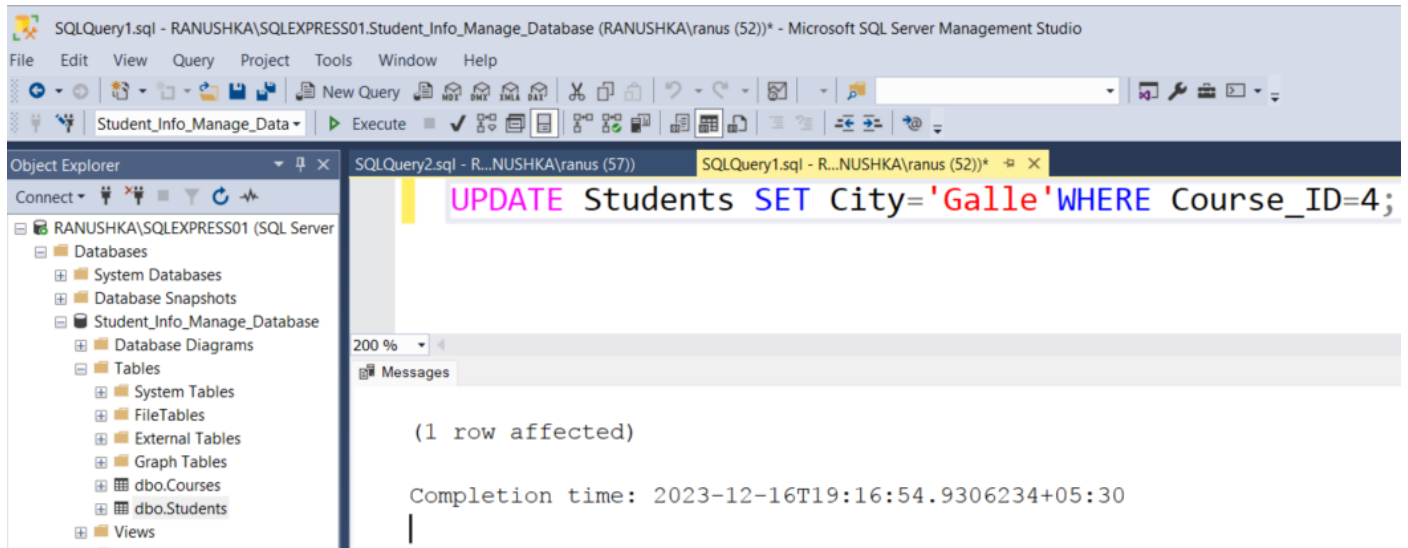
```
SELECT Student_ID, Name, City FROM Students WHERE City= 'Kandy';
```

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'Student_Info_Manage_Database'. The query window on the right contains the SQL query 'SELECT Student_ID, Name, City FROM Students WHERE City= 'Kandy';'. Below the query, the 'Results' tab shows a table with 2 rows and 3 columns: Student_ID, Name, and City.

Student_ID	Name	City
1	Kasun Gamage	Kandy
5	Praneeth Wijesinghe	Kandy

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

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



The screenshot shows the 'Results' tab in SQL Server Management Studio, displaying a table with 6 rows and 5 columns. The columns are Student_ID, Name, City, and Course_ID. The data is as follows:

	Student_ID	Name	City	Course_ID
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	Galle	4
6	6	Nuwani Herath	Rathnapura	1

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

```
SELECT Students.*, (SELECT Name FROM Courses WHERE Courses.Course_ID=Students.Course_ID)  
AS CourseName FROM Students;
```

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
SELECT Students.*, (SELECT Name FROM Courses WHERE Courses.Course_ID = Students.Course_ID) AS CourseName  
FROM Students;
```

The query results are displayed in a table with the following columns: Student_ID, Name, City, Course_ID, and CourseName. The results are as follows:

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

200 %					
Results Messages					
	Student_ID	Name	City	Course_ID	CourseName
1	1	Kasun Gamage	Kandy	2	Graphic Design
2	2	Daniel Sam	Jaffna	3	Mobile App Development
3	3	Hansi Silva	Colombo	1	Web Development
4	4	Ranidu Heath	Matara	3	Mobile App Development
5	5	Praneeth Wijesinghe	Galle	4	Java
6	6	Nuwani Herath	Rathnapura	1	Web Development

