

HAMZA EJAZ

S # B19102041

BSCS-III (MORNING)

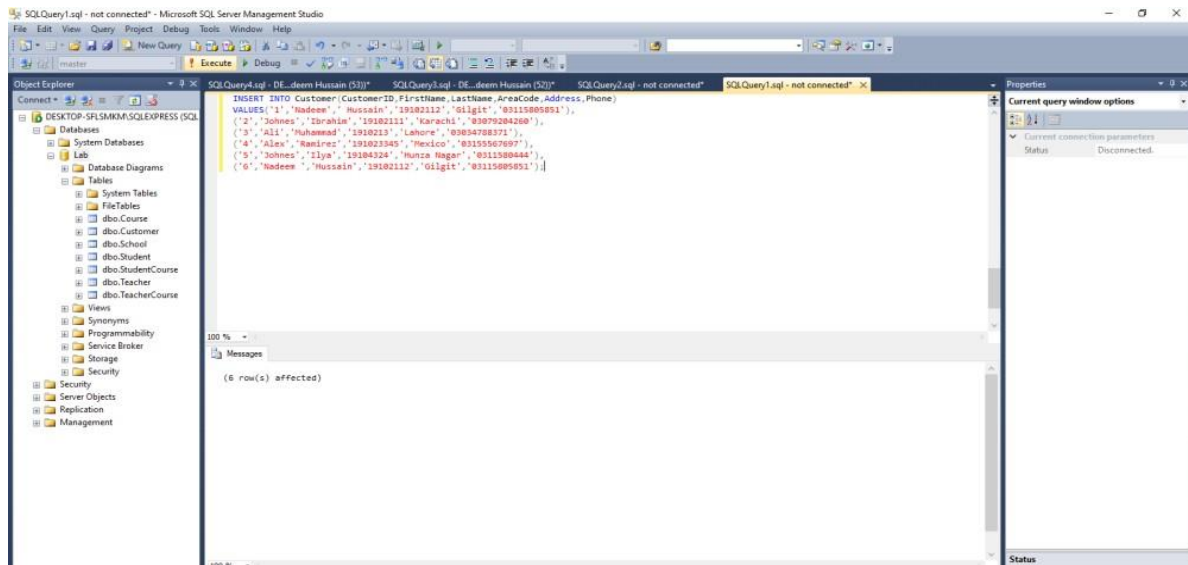
Section-A

***Database Management
System***

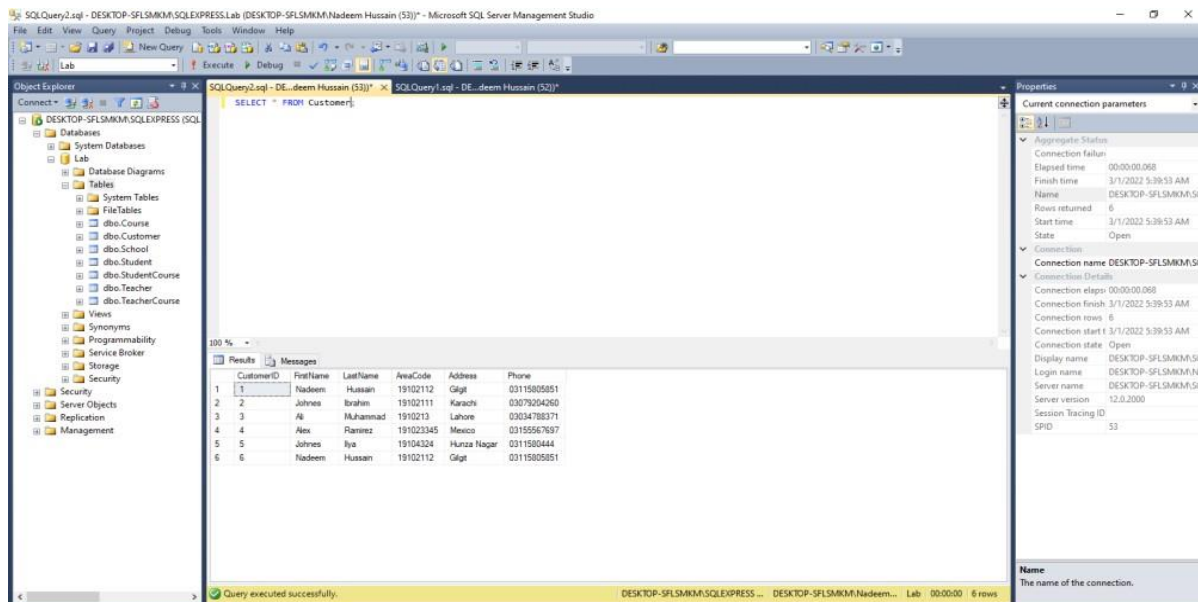
Q1. Create table Customer with Following Constraints.

```
CREATE TABLE table_name (  
    column1 datatype,  
    column2 datatype,  
    column3 datatype,  
    ....  
);
```

Input:



Output:



Q2. Create Tables of: School, Student, Teacher, Course, Grade, Teacher_Course and Student_Course and show the relationship among them.

Input of School:

```
INSERT INTO School (SchoolID, SchoolName, SchoolAddress, PostCode, Phone)
VALUES ('1', 'Star Raising Rakaposhi', 'Gilgit', '6000', '03115805851'),
('2', 'Shah Wali Model Academy', 'Karachi', '4333', '03034788371'),
('3', 'GOVT Boys', 'Lahore', '03033', '03079204260'),
('4', 'Al Noor', 'Mexico', '7697', '03155567697'),
('5', 'The Learning Academy', 'Hunza Nagar', '80444', '031158505851'),
('6', 'Army public', 'Gilgit', '1580', '03475566666');
```

Output Of School:

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The 'Object Explorer' on the left shows the database structure, including the 'School' table. The 'Query Results' pane in the center shows the output of a query executed on the 'School' table. The results are as follows:

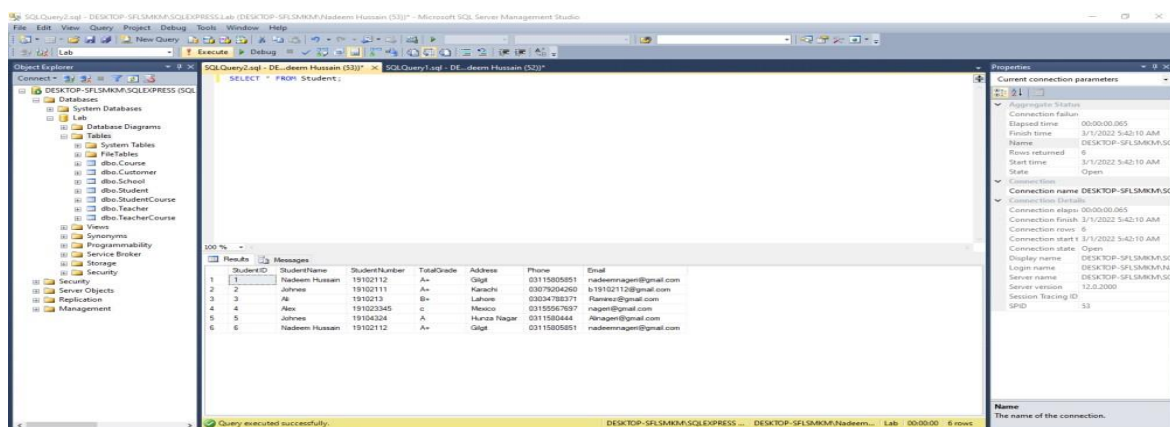
SchoolID	SchoolName	SchoolAddress	PostCode	Phone
1	Star Raising Rakaposhi	Gilgit	6000	03115805851
2	Shah Wali Model Academy	Karachi	4333	03034788371
3	GOVT Boys	Lahore	03033	03079204260
4	Al Noor	Mexico	7697	03155567697
5	The Learning Academy	Hunza Nagar	80444	031158505851
6	Army public	Gilgit	1580	03475566666

The 'Properties' pane on the right shows the connection details for the 'DESKTOP-SFLSMKM\SQLEXPRESS' connection. The status bar at the bottom indicates that the query was executed successfully, returning 6 rows.

Input of Student:

```
INSERT INTO Student(StudentID,StudentName,StudentNumber,TotalGrade,Address,Phone,Email)
VALUES('1','Nadeem Hussain','19102112','A+','Gilgit','03115805851','nadeemnageri@gmail.com'),
('2','Johnes','19102111','A+','Karachi','03079204260','b19102112@gmail.com'),
('3','Ali','1910213','B+','Lahore','03034788371','Ramirez@gmail.com'),
('4','Alex','191023345','c','Mexico','03155567697','nageri@gmail.com'),
('5','Johnes','19104324','A','Hunza Nagar','0311580444','Alinageri@gmail.com'),
('6','Nadeem Hussain','19102112','A+','Gilgit','03115805851','nadeemnageri@gmail.com');
```

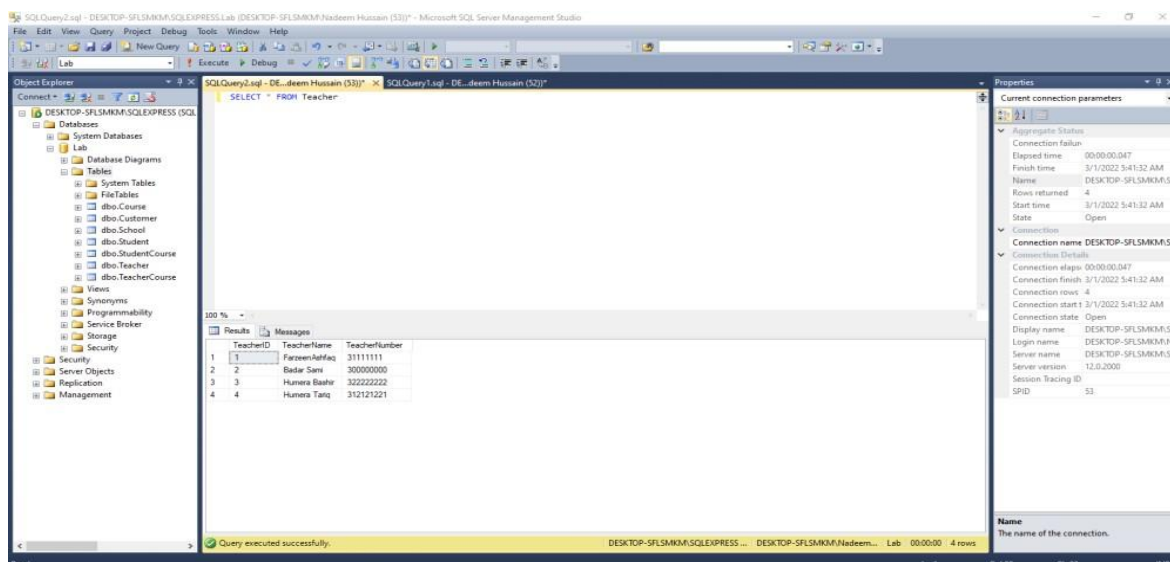
Output Of Student:



Input of Teacher:

```
INSERT INTO Teacher(TeacherID,TeacherName,TeacherNumber)
VALUES('1','FarzeenAshfaq','031111111'),
('2','Badar Sami','0300000000'),
('3','Humera Bashir','0322222222'),
('4','Humera Tariq','0312121221');
```

Output of Teacher:



Input Of Course:

```
INSERT INTO Course(CourseID,CourseName,SchoolID,SchoolName)
VALUES('1','BSCS','1','Al noor'),
('2','Pharmacy','2','Shah Wali'),
('3','Zology','3','The Learning Academy'),
('4','Electronics','4','Army public');
```

Output of Course:

CourseID	CourseName	SchoolID	SchoolName
1	BSCS	1	Al noor
2	Pharmacy	2	Shah Wali
3	Zology	3	The Learning Academy
4	Electronics	4	Army public

Input Of Grade:

```
INSERT INTO Grade(GradeID,StudentID,CourseID,Grade)
VALUES('1','1','1','A'),
('2','2','2','B'),
('3','3','3','C');
```

Output of Grade:

GradeID	StudentID	CourseID	Grade
1	1	1	A
2	2	2	B
3	3	3	C

Input of Student Course:

```
INSERT INTO StudentCourse(StudentID,CourseID)

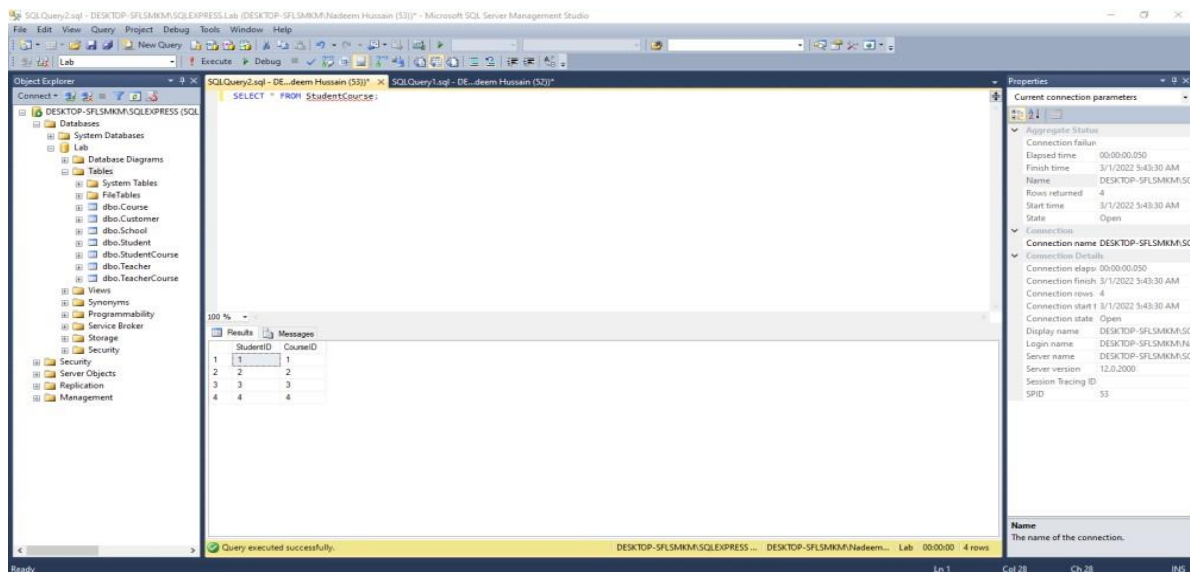
VALUES('1','1'),

('2','2'),

('3','3'),

('4','4');
```

Output of Student Course:



Input Of Teacher Course:

```
INSERT INTO TeacherCourse(TeacherID,CourseID)

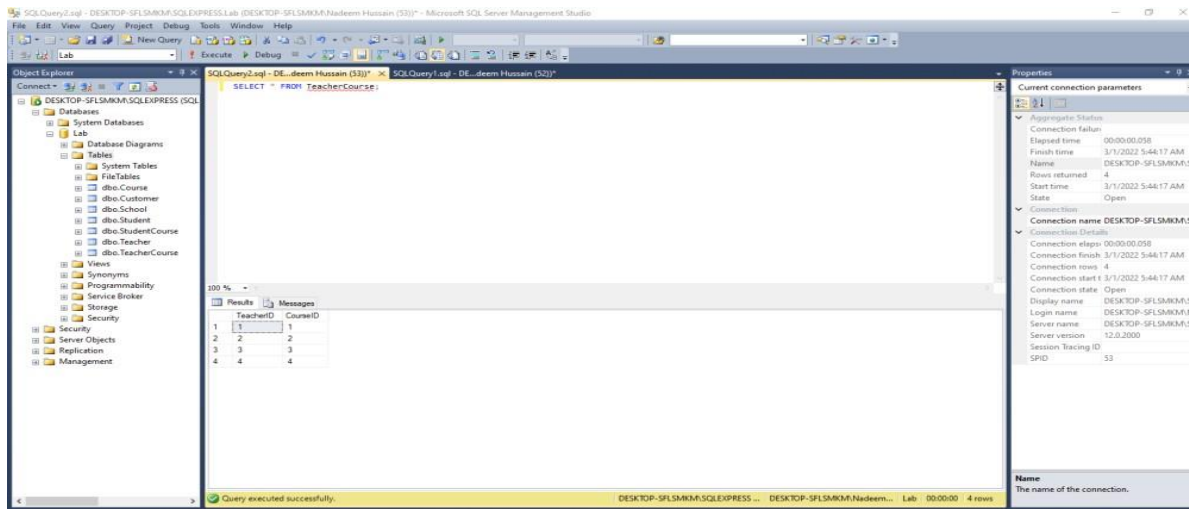
VALUES('1','1'),

('2','2'),

('3','3'),

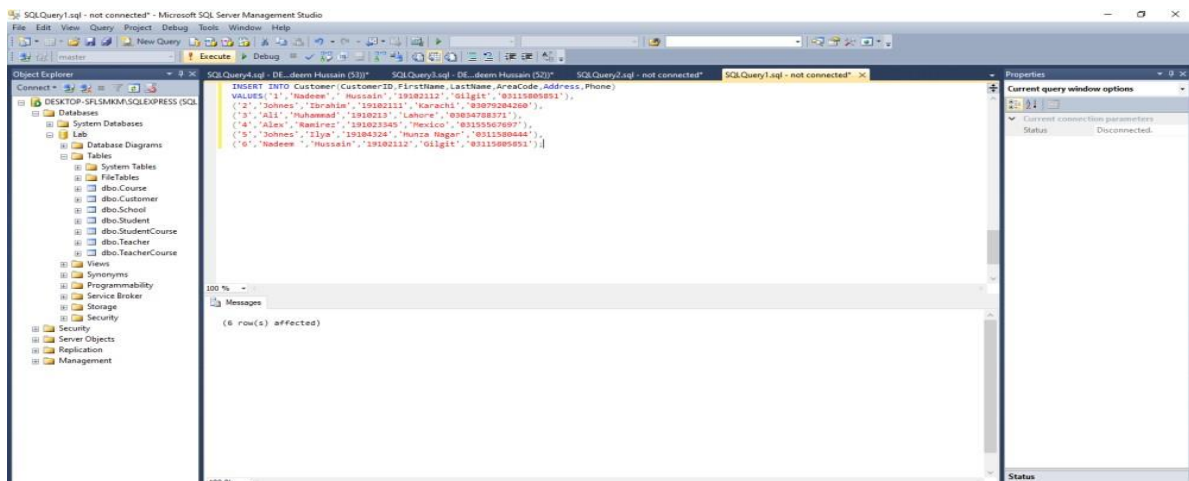
('4','4');
```

Output Of Teacher Course:

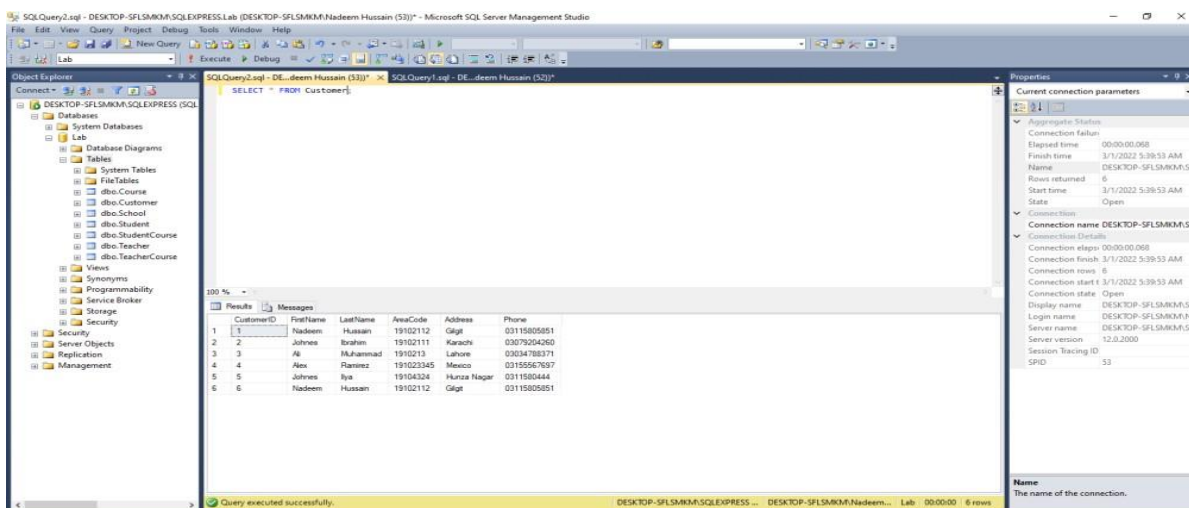


**Q3. INSERT INTO table_name (column1, column2, column3, ...)
VALUES (value1, value2, value3, ...);**

Input:



Output:



Q4.

(A) Write a query to select all students from a table.

Output:

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the SQL statement `SELECT * FROM Student;`. The Results pane displays a table with 6 rows and 7 columns: StudentID, StudentName, StudentNumber, TotalGrade, Address, Phone, and Email. The data is as follows:

StudentID	StudentName	StudentNumber	TotalGrade	Address	Phone	Email
1	Nadeem Hussain	19102112	A+	Gilgt	03115805851	nadeemhussain@gmail.com
2	Johanes	19102111	A+	Karachi	03075204260	b19102112@gmail.com
3	Ali	19102113	B+	Lahore	03034788371	Ramrez@gmail.com
4	Alex	191022345	C	Mexico	03155557697	nager@gmail.com
5	Johanes	19104324	A	Hunza Nagar	0311580444	Alnager@gmail.com
6	Nadeem Hussain	19102112	A+	Gilgt	03115805851	nadeemhussain@gmail.com

The status bar at the bottom indicates "Query executed successfully." and "6 rows".

(B) Select those students whose name is Johnes.

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the SQL statement `SELECT * FROM Student WHERE StudentName = 'Johnes';`. The Results pane displays a table with 2 rows and 7 columns: StudentID, StudentName, StudentNumber, TotalGrade, Address, Phone, and Email. The data is as follows:

StudentID	StudentName	StudentNumber	TotalGrade	Address	Phone	Email
2	Johanes	19102111	A+	Karachi	03075204260	b19102112@gmail.com
5	Johanes	19104324	A	Hunza Nagar	0311580444	Alnager@gmail.com

The status bar at the bottom indicates "Query executed successfully." and "2 rows".