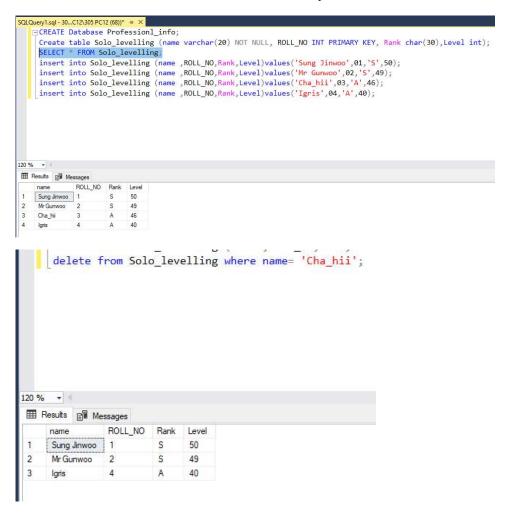
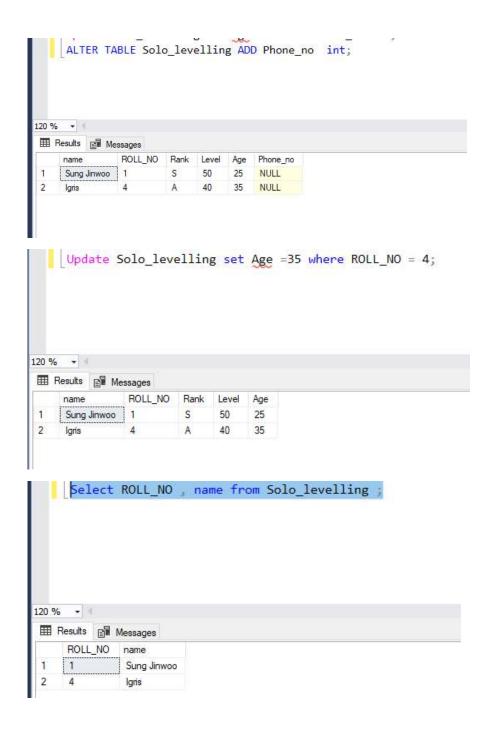
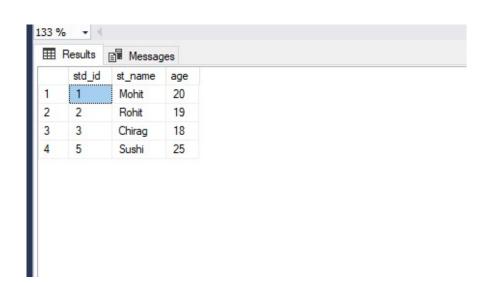
Exp 3





```
SQLQuey1.sql -305...13.master(sa(55))* * X

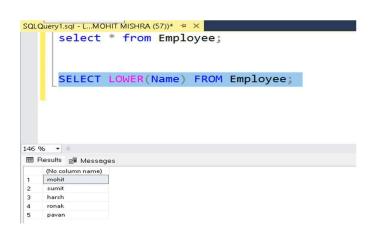
| create table student45(
| std_id int primary key,
| st_name varchar(20),
| age int
| );
| insert into student45(std_id,st_name,age)values(1,'Mohit',20)
| insert into student45(std_id,st_name,age)values(2,'Rohit',19)
| insert into student45(std_id,st_name,age)values(3,'Chirag',18)
| insert into student45(std_id,st_name,age)values(4,'Vishal',24)
| insert into student45(std_id,st_name,age)values(5,'Sushi',25)
| select*from student45;
| update student45 set age= 34 where age =24;
| delete from student45 where std_id=4;
```



Exp 5

```
SQLQuery1.sql - 30...C14\305 PC14 (67))* + ×
   ⊟use mohit;
     CREATE LOGIN Mohit WITH PASSWORD = '1234';
     grant select on dbo.doctor to MohitMishra;
     Execute As user = 'MohitMishra';
     select * from Doctor;
     insert into Doctor values(2, 'Harsh', 'mumbi', 1400, 25);
     revert ;
     revoke select on dbo.doctor to MohitMishra;
     Execute As user = 'MohitMishra';
     select * from Doctor;
     revert;
     BEGIN TRANSACTION;
     insert into Doctor values(5, 'Anaya', 'hyderabad',1700,20);
     SAVE TRANSACTION Savepoint1;
     select * from Doctor;
     insert into Doctor values(6, 'ram', 'hyderabad',1700,20);
     select * from Doctor;
     ROLLBACK TRANSACTION Savepoint1;
     select * from Doctor;
111 % -
Results Messages
    ID Name Adress
1 Harsh mumbi
                        Salary age
1400 25
     2 Harsh mumbi
 3
     5 Anaya hyderabad 1700 20

    Query executed successfully.
```





```
SQLQuery1.sql - L...MOHIT MISHRA (57))* → ×

| SELECT LOWER(Name) FROM Employee;
          SELECT UPPER(Name) FROM Employee;
(No column name)

1 MOHIT

2 SUMIT

3 HARSH

4 RONAK

5 PA
   SQLQuery1.sql - L...MOHIT MISHRA (57))* + ×
          SELECT LOWER(Name) FROM Employee;
          SELECT UPPER(Name) FROM Employee;
          SELECT LEN(Name) FROM Employee;

    ■ Results    ■ Messages

  (No column name)

1 5
2 5
3 5
4 5
5 5
         SELECT LOWER(Name) FROM Employee;
         SELECT LUPPER(Name) FROM Employee;
SELECT LEN(Name) FROM Employee;
SELECT SUBSTRING(Name, 3, 2) FROM Employee;
          SELECT LOWER(Name) FROM Employee;
          SELECT UPPER(Name) FROM Employee;
          SELECT LEN(Name) FROM Employee;
          SELECT SUBSTRING(Name, 3, 2) FROM Employee; SELECT SUM(Salary) FROM Employee;
   146 % 🕶 🖪
    (No column name)
1 14800
```

```
SELECT LOWER(Name) FROM Employee;
      SELECT UPPER(Name) FROM Employee;
      SELECT LEN(Name) FROM Employee;
      SELECT SUBSTRING(Name, 3, 2) FROM Employee;
      SELECT SUM(Salary) FROM Employee;
      SELECT AVG(Salary) FROM Employee;
L46 % ▼ 4

■ Results Messages
(No column name)
1 2960
~vsB640.sql - LAP...OHIT MISHRA (76))* 中 ×
       SELECT SUM(Salary) FROM Employee;
       SELECT MIN(Salary) FROM Employee;
       SELECT MAX(Salary) FROM Employee;
      SELECT COUNT(Emp_ID) FROM Employee;
 sgl-LAP...OHIT MISHRA (76))* → ×
SELECT UPPER(Name) FROM Employee;
      SELECT LEN(Name) FROM Employee;
      SELECT SUBSTRING(Name, 3, 2) FROM Employee;
SELECT SUM(Salary) FROM Employee;
SELECT MIN(Salary) FROM Employee;
 146 % ▼

■ Results M Messages

(No column name)

1 1500
```

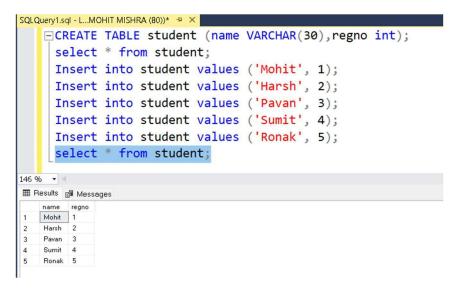
```
SELECT SUBSTRING(Name, 3, 2) FROM Employee;
SELECT SUM(Salary) FROM Employee;
SELECT MIN(Salary) FROM Employee;
SELECT MAX(Salary) FROM Employee;
SELECT MAX(Salary) FROM Employee;

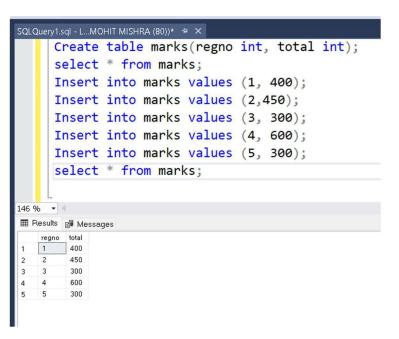
SELECT MAX(Salary) FROM Employee;

We column name)

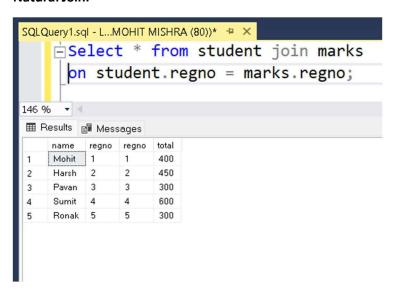
146 % 

(No column name)
1 4500
```

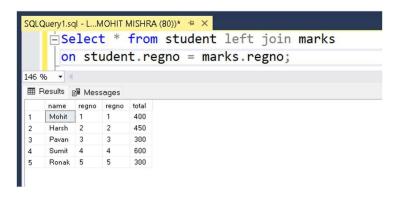




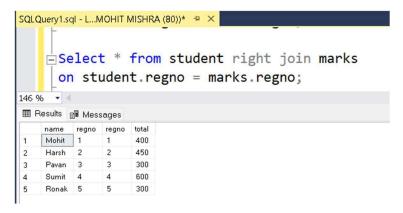
Natural Join:



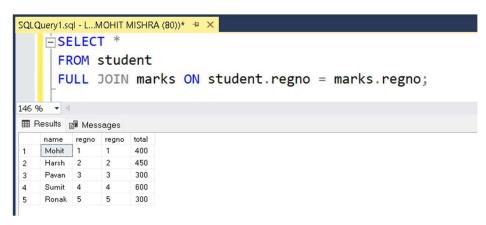
Left Join:



Right Join:



Full Join:

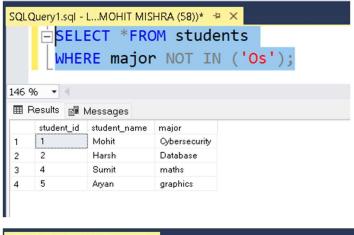


```
SQLQuery1.sql - L...MOHIT MISHRA (58))* → ×
    FUSE Mohit:
    CREATE TABLE students ( student_id INT PRIMARY KEY,
      student_name VARCHAR(50), major VARCHAR(50));
    ■INSERT INTO students (student_id, student_name, major )
      VALUES
      (1, 'Mohit', 'Cybersecurity'),
(2, 'Harsh', 'Database'),
(3, 'Pavan ', 'Os'),
(4, 'Sumit', 'maths'),
(5, 'Aryan', 'graphics')
      Select *from students
student_id student_name

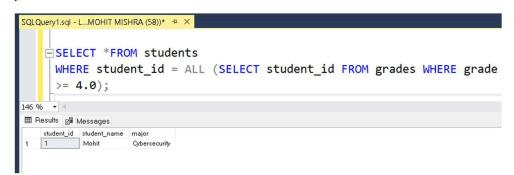
1 Mohit
2 Harsh
                     major
Cybersecurity
Database
           Pavan
SQLQuery1.sql - L...MOHIT MISHRA (58))* + ×
    □CREATE TABLE grades ( grade_id INT PRIMARY KEY,
       student_id INT, course_name VARCHAR(50),
       grade DECIMAL(3, 2));
    □INSERT INTO grades (grade_id, student_id, course_name, grade)
       (1, 1, 'Integration', 4.0), (2, 1, 'Statistics', 3.5),
      (3, 2, 'Algorithms', 3.9), (4, 4, 'Laplace', 3.7), (5, 3, 'Inverse', 3.2);
      Select *from grades
146 % 🕶
| grade_id | student_id | course_name | grade | 1 | Integration | 4.00 | 2 | 1 | Statistics | 3.50 | 3 | 2 | Algorithms | 3.90 |
                  Laplace
                            3.70
SQLQuery1.sql - L...MOHIT MISHRA (58))* + X
       □SELECT *FROM students
          WHERE major IN ('Cybersecurity', 'Os');
146 % 🔻 🔻

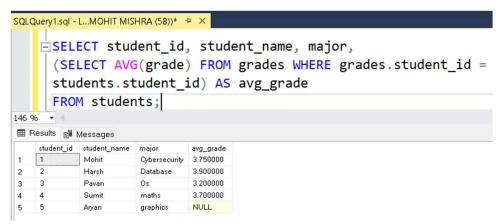
    ■ Results    ■ Messages

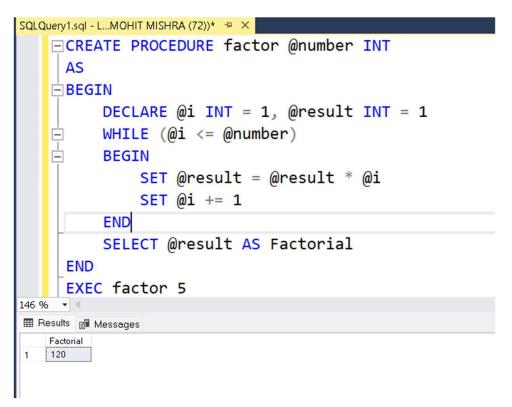
       student_id student_name major
     1
                   Mohit
                                  Cybersecurity
 2
       3
```











```
CREATE TABLE Student_details (
   id INTEGER,
   addmission_no INTEGER,
   first_name VARCHAR(10),
   last_name VARCHAR(20),
   age INTEGER,
   city VARCHAR(20)
);

INSERT INTO Student_details (id, addmission_no, first_name, last_name, age, city)
VALUES
(1, 1001, 'ayush', 'Chaubey', 20, 'New York'),
(2, 1002, 'Prashant', 'phatak', 22, 'Los Angeles'),
(3, 1003, 'naman', 'bhalani', 19, 'Chicago'),
(4, 1004, 'Nilesh', 'Yadav', 21, 'Houston');

SELECT * FROM Student_details;
```

id	addmission_no	first_name	last_name	age	city
1	1001	ayush	Chaubey	20	New York
2	1002	Prashant	phatak	22	Los Angeles
3	1003	naman	bhalani	19	Chicago
4	1004	Nilesh	Yadav	21	Houston

```
CREATE TABLE fees (
   addmission_no INTEGER,
   course VARCHAR(20),
   amount_paid INTEGER
);

INSERT INTO fees (addmission_no, course, amount_paid)
VALUES
(1001, 'Math', 2000),
(1001, 'English', 1500),
(1002, 'History', 1800),
(1003, 'Physics', 2500),
(1003, 'Chemistry', 2200),
(1004, 'Biology', 1900);

SELECT * FROM fees;
```

addmission_no	course	amount_paid
1001	Math	2000
1001	English	1500
1002	History	1800
1003	Physics	2500
1003	Chemistry	2200
1004	Biology	1900

CREATE VIEW course_enrolled AS

SELECT first_name, last_name, course, amount_paid

FROM Student_details AS S

INNER JOIN fees AS F ON S.addmission_no = F.addmission_no;

SELECT * FROM course_enrolled;

first_name	last_name	course	amount_paid
ayush	Chaubey	Math	2000
ayush	Chaubey	English	1500
Prashant	phatak	History	1800
naman	bhalani	Physics	2500
naman	bhalani	Chemistry	2200
Nilesh	Yadav	Biology	1900

```
CREATE TABLE Employee (

Id INT PRIMARY KEY,

Name VARCHAR(45),

Salary INT,

Gender VARCHAR(12),

DepartmentId INT
);

INSERT INTO Employee VALUES
(1,'Steffan', 82000, 'Male', 3),
(2,'Amelie', 52000, 'Female', 2),
(3,'Antonio', 25000, 'male', 1),
(4,'Marco', 47000, 'Male', 2),
(5,'Eliana', 46000, 'Female', 3);

SELECT * FROM Employee;
```

Id	Name	Salary	Gender	DepartmentId
1	Steffan	82000	Male	3
2	Amelie	52000	Female	2
3	Antonio	25000	male	1
4	Marco	47000	Male	2
5	Eliana	46000	Female	3

```
CREATE TABLE Employee_Audit_Test (
   Id INT IDENTITY,
   Audit_Action TEXT
);
CREATE TRIGGER trInsertEmployee
ON Employee
FOR INSERT
AS
BEGIN
   DECLARE @Id INT
   SELECT @Id = Id FROM inserted
   INSERT INTO Employee_Audit_Test
   VALUES ('New employee with Id = ' + CAST(@Id AS VARCHAR(10)) +
            ' is added at ' + CAST(GETDATE() AS VARCHAR(22)))
END;
INSERT INTO Employee VALUES (6, 'Peter', 62000, 'Male', 3);
SELECT * FROM Employee_Audit_Test;
```

Id Audit_Action

New employee with Id = 6 is added at Apr 14 2025 ...