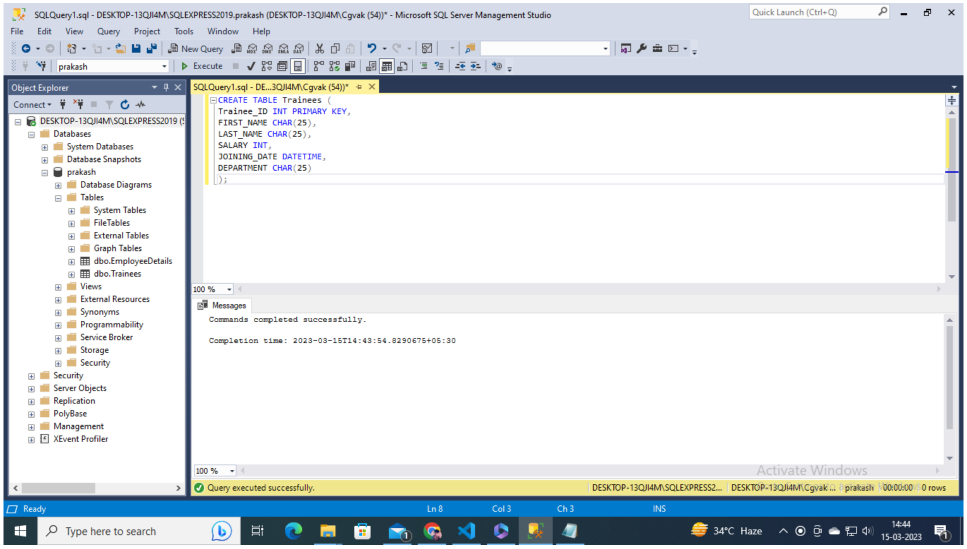
CREATING TABLE WITH FOLLOWING DETAILS

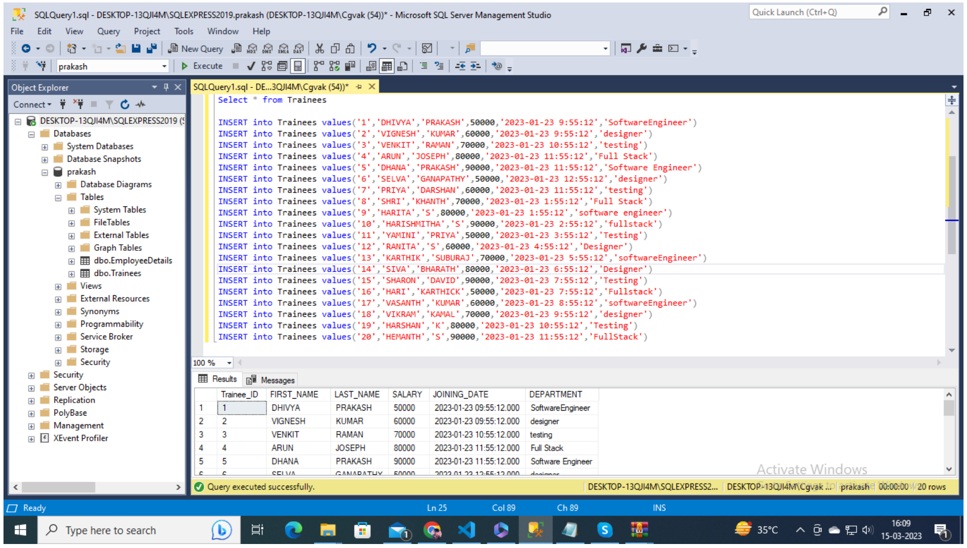
Trainee_ID INT PRIMARY KEY,
FIRST_NAME CHAR(25),
LAST_NAME CHAR(25),
SALARY INT(15),
JOINING_DATE DATETIME,
DEPARTMENT CHAR(25)



```sql
CREATE TABLE Trainees (
Trainee_ID INT PRIMARY KEY,
FIRST_NAME CHAR(25),
LAST_NAME CHAR(25),
SALARY INT,
JOINING_DATE DATETIME,
DEPARTMENT CHAR(25)
);
```

```
Commands completed successfully.

Completion time: 2023-03-15T14:43:54.8290675+05:30
```

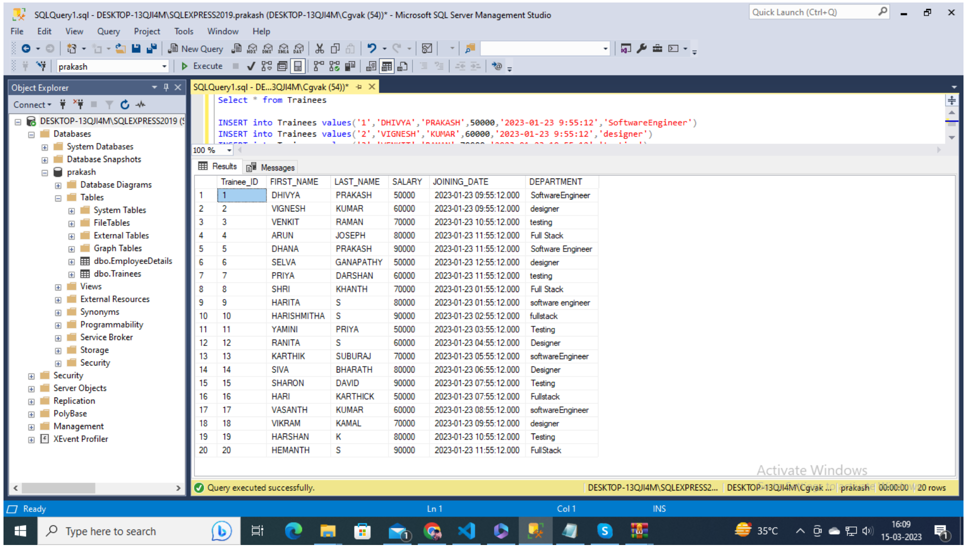
CREATING RECORDS



```sql
Select * from Trainees

INSERT into Trainees values('1','DHIVYA','PRAKASH',50000,'2023-01-23 9:55:12','SoftwareEngineer')
INSERT into Trainees values('2','VIGNESH','KUMAR',60000,'2023-01-23 9:55:12','designer')
INSERT into Trainees values('3','VENKIT','RAMAN',70000,'2023-01-23 10:55:12','testing')
INSERT into Trainees values('4','ARUN','JOSEPH',80000,'2023-01-23 11:55:12','Full Stack')
INSERT into Trainees values('5','DHANA','PRAKASH',90000,'2023-01-23 11:55:12','Software Engineer')
INSERT into Trainees values('6','SELVA','GANAPATHY',50000,'2023-01-23 12:55:12','designer')
INSERT into Trainees values('7','PRIYA','DARSHAN',60000,'2023-01-23 11:55:12','testing')
INSERT into Trainees values('8','SHRI','KHANTH',70000,'2023-01-23 1:55:12','Full Stack')
INSERT into Trainees values('9','HARITA','S',80000,'2023-01-23 1:55:12','software engineer')
INSERT into Trainees values('10','HARISHMITHA','S',90000,'2023-01-23 2:55:12','fullstack')
INSERT into Trainees values('11','YAMINI','PRIYA',50000,'2023-01-23 3:55:12','Testing')
INSERT into Trainees values('12','RANITA','S',60000,'2023-01-23 4:55:12','Designer')
INSERT into Trainees values('13','KARTHIK','SUBURAJ',70000,'2023-01-23 5:55:12','softwareEngineer')
INSERT into Trainees values('14','SIVA','BHARATH',80000,'2023-01-23 6:55:12','Designer')
INSERT into Trainees values('15','SHARON','DAVID',90000,'2023-01-23 7:55:12','Testing')
INSERT into Trainees values('16','HARI','KARTHICK',50000,'2023-01-23 7:55:12','Fullstack')
INSERT into Trainees values('17','VASANTH','KUMAR',60000,'2023-01-23 8:55:12','softwareEngineer')
INSERT into Trainees values('18','VIKRAM','KAMAL',70000,'2023-01-23 9:55:12','designer')
INSERT into Trainees values('19','HARSHAN','K',80000,'2023-01-23 10:55:12','Testing')
INSERT into Trainees values('20','HEMANTH','S',90000,'2023-01-23 11:55:12','FullStack')
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	1	DHIVYA	PRAKASH	50000	2023-01-23 09:55:12.000	SoftwareEngineer
2	2	VIGNESH	KUMAR	60000	2023-01-23 09:55:12.000	designer
3	3	VENKIT	RAMAN	70000	2023-01-23 10:55:12.000	testing
4	4	ARUN	JOSEPH	80000	2023-01-23 11:55:12.000	Full Stack
5	5	DHANA	PRAKASH	90000	2023-01-23 11:55:12.000	Software Engineer

Query executed successfully.



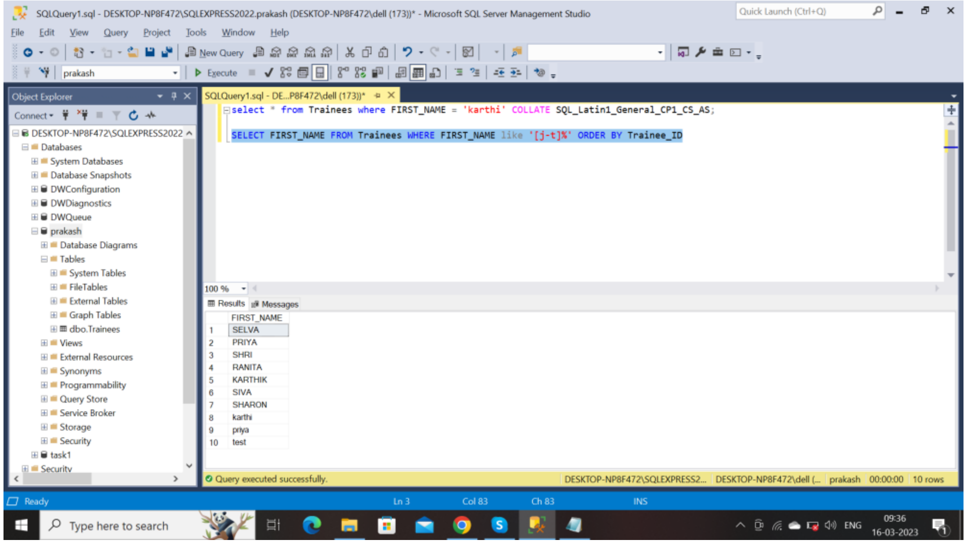
```sql
Select * from Trainees

INSERT into Trainees values('1','DHIVYA','PRAKASH',50000,'2023-01-23 9:55:12','SoftwareEngineer')
INSERT into Trainees values('2','VIGNESH','KUMAR',60000,'2023-01-23 9:55:12','designer')
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	1	DHIVYA	PRAKASH	50000	2023-01-23 09:55:12.000	SoftwareEngineer
2	2	VIGNESH	KUMAR	60000	2023-01-23 09:55:12.000	designer
3	3	VENKIT	RAMAN	70000	2023-01-23 10:55:12.000	testing
4	4	ARUN	JOSEPH	80000	2023-01-23 11:55:12.000	Full Stack
5	5	DHANA	PRAKASH	90000	2023-01-23 11:55:12.000	Software Engineer
6	6	SELVA	GANAPATHY	50000	2023-01-23 12:55:12.000	designer
7	7	PRIYA	DARSHAN	60000	2023-01-23 11:55:12.000	testing
8	8	SHRI	KHANTH	70000	2023-01-23 01:55:12.000	Full Stack
9	9	HARITA	S	80000	2023-01-23 01:55:12.000	software engineer
10	10	HARISHMITHA	S	90000	2023-01-23 02:55:12.000	fullstack
11	11	YAMINI	PRIYA	50000	2023-01-23 03:55:12.000	Testing
12	12	RANITA	S	60000	2023-01-23 04:55:12.000	Designer
13	13	KARTHIK	SUBURAJ	70000	2023-01-23 05:55:12.000	softwareEngineer
14	14	SIVA	BHARATH	80000	2023-01-23 06:55:12.000	Designer
15	15	SHARON	DAVID	90000	2023-01-23 07:55:12.000	Testing
16	16	HARI	KARTHICK	50000	2023-01-23 07:55:12.000	Fullstack
17	17	VASANTH	KUMAR	60000	2023-01-23 08:55:12.000	softwareEngineer
18	18	VIKRAM	KAMAL	70000	2023-01-23 09:55:12.000	designer
19	19	HARSHAN	K	80000	2023-01-23 10:55:12.000	Testing
20	20	HEMANTH	S	90000	2023-01-23 11:55:12.000	FullStack

Query executed successfully.

1. Retrieve all FIRST_NAME STARTING WITH J-T and should differentiate between Uppercase and lowercase.

SELECT FIRST_NAME FROM Trainees WHERE FIRST_NAME like '[j-t]%' ORDER BY Trainee_ID

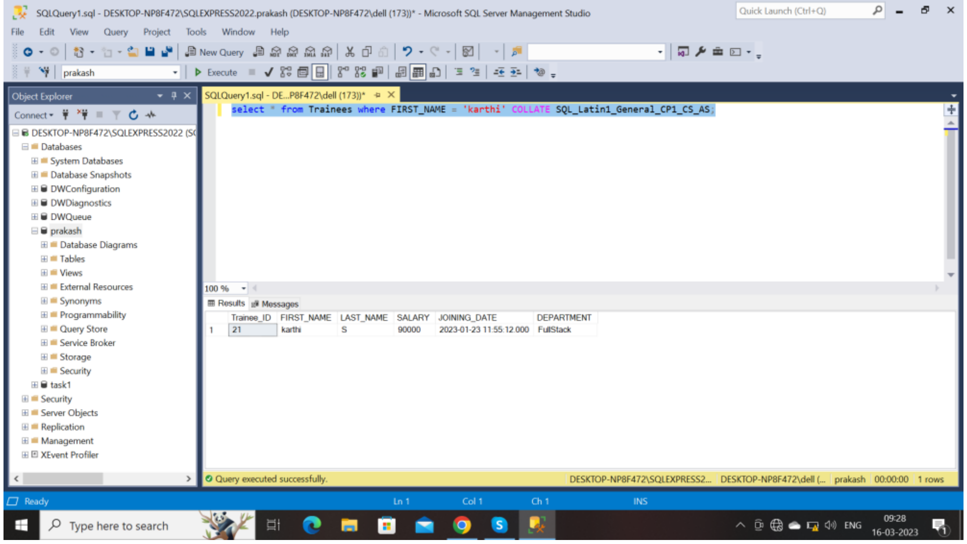


```sql
select * from Trainees where FIRST_NAME = 'karthi' COLLATE SQL_Latin1_General_CP1_CS_AS;

SELECT FIRST_NAME FROM Trainees WHERE FIRST_NAME like '[j-t]%' ORDER BY Trainee_ID
```

	FIRST_NAME
1	SELVA
2	PRIYA
3	SHRI
4	RANITA
5	KARTHIK
6	SIVA
7	SHARON
8	karthi
9	priya
10	test

Query executed successfully.

select * from Trainees where FIRST_NAME = 'karthi' COLLATE SQL_Latin1_General_CP1_CS_AS;

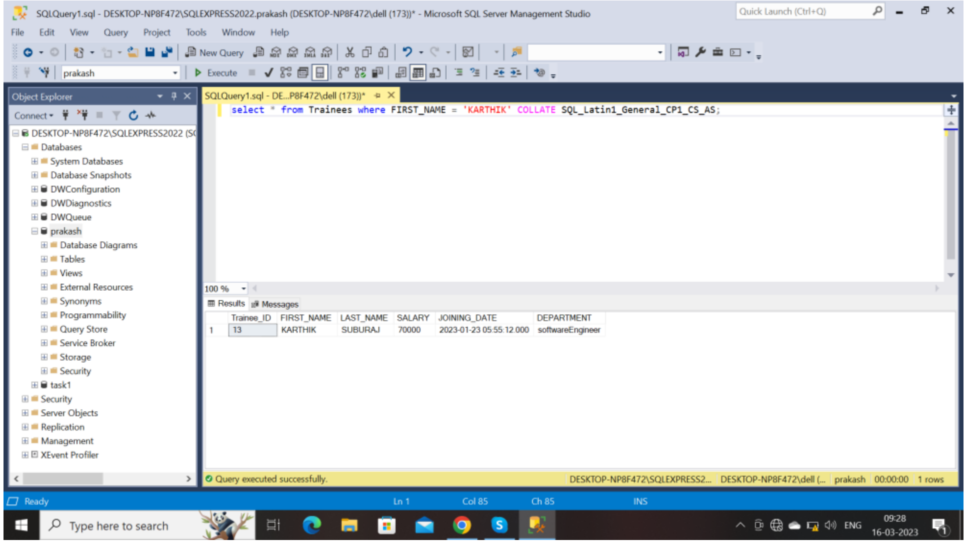


```sql
select * from Trainees where FIRST_NAME = 'karthi' COLLATE SQL_Latin1_General_CP1_CS_AS;
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	21	karthi	S	90000	2023-01-23 11:55:12.000	FullStack

Query executed successfully.

select * from Trainees where FIRST_NAME = 'KARTHI' COLLATE SQL_Latin1_General_CP1_CS_AS;



SQLQuery1.sql - DESKTOP-NP8F472\SQLEXPRESS2022.prakash (DESKTOP-NP8F472\dell (173))* - Microsoft SQL Server Management Studio

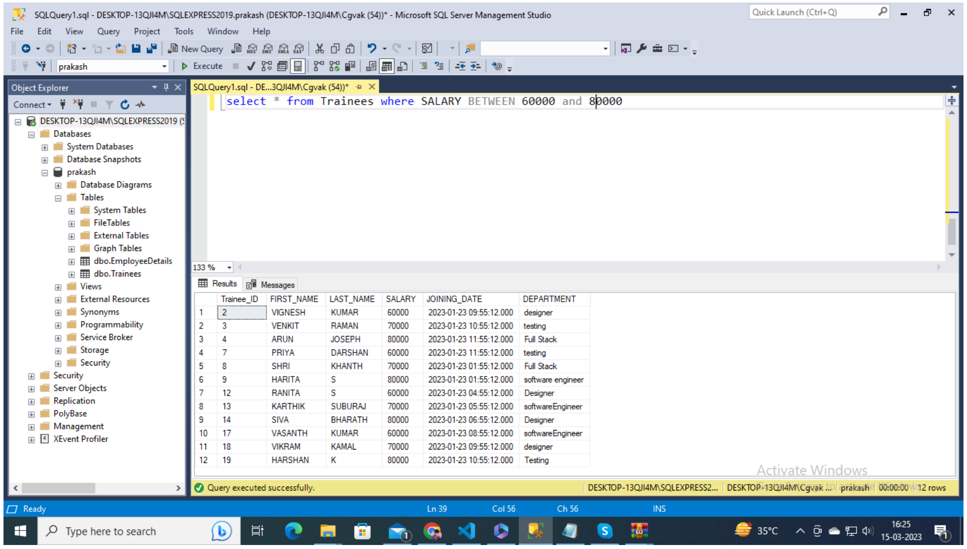
```sql
select * from Trainees where FIRST_NAME = 'KARTHIK' COLLATE SQL_Latin1_General_CP1_CS_AS;
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	13	KARTHIK	SUBURAJ	70000	2023-01-23 05:55:12.000	softwareEngineer

Query executed successfully.

2. Retrieve all SALARY BETWEEN 20000 TO 50000

select * from Trainees where SALARY BETWEEN 60000 and 80000



SQLQuery1.sql - DESKTOP-13QJI4M\SQLEXPRESS2019.prakash (DESKTOP-13QJI4M\Cgvak (54))* - Microsoft SQL Server Management Studio

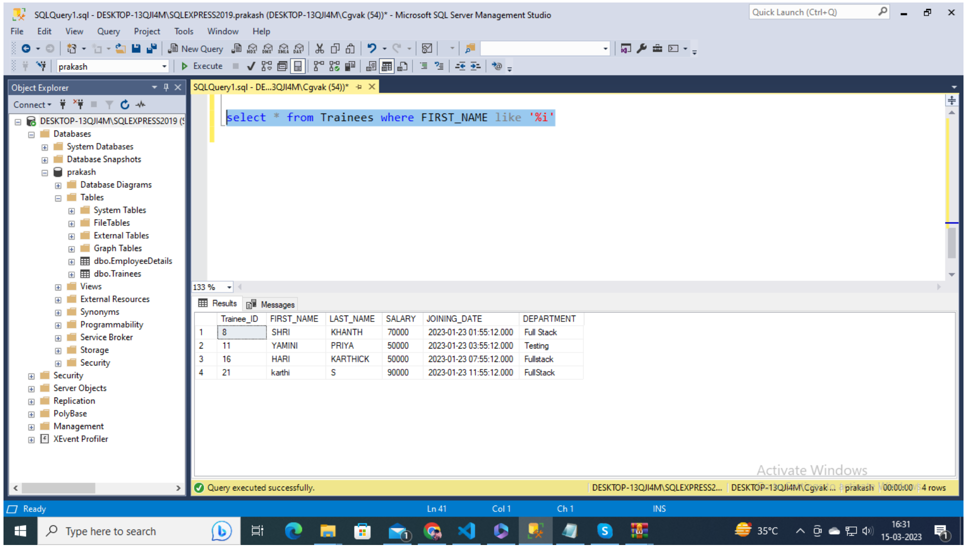
```sql
select * from Trainees where SALARY BETWEEN 60000 and 80000
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	2	VIGNESH	KUMAR	60000	2023-01-23 09:55:12.000	designer
2	3	VENKIT	RAMAN	70000	2023-01-23 10:55:12.000	testing
3	4	ARUN	JOSEPH	80000	2023-01-23 11:55:12.000	Full Stack
4	7	PRIYA	DARSHAN	60000	2023-01-23 11:55:12.000	testing
5	8	SHRI	KHANTH	70000	2023-01-23 01:55:12.000	Full Stack
6	9	HARITA	S	80000	2023-01-23 01:55:12.000	software engineer
7	12	RANITA	S	60000	2023-01-23 04:55:12.000	Designer
8	13	KARTHIK	SUBURAJ	70000	2023-01-23 05:55:12.000	softwareEngineer
9	14	SIVA	BHARATH	80000	2023-01-23 06:55:12.000	Designer
10	17	VASANTH	KUMAR	60000	2023-01-23 08:55:12.000	softwareEngineer
11	18	VIKRAM	KAMAL	70000	2023-01-23 09:55:12.000	designer
12	19	HARSHAN	K	80000	2023-01-23 10:55:12.000	Testing

Query executed successfully.

3. Retrieve all FIRST_NAME ending with I

select * from Trainees where FIRST_NAME like '%i'



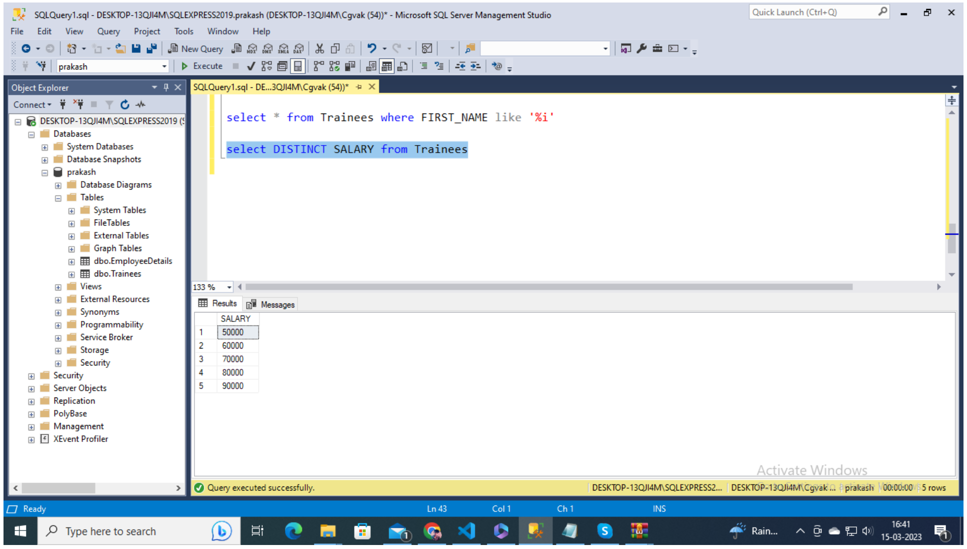
```
select * from Trainees where FIRST_NAME like '%i'
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	8	SHRI	KHANTH	70000	2023-01-23 01:55:12.000	Full Stack
2	11	YAMINI	PRIYA	50000	2023-01-23 03:55:12.000	Testing
3	16	HARI	KARTHICK	50000	2023-01-23 07:55:12.000	Fullstack
4	21	karthi	S	90000	2023-01-23 11:55:12.000	FullStack

Query executed successfully.

4. Retrieve all salary without duplications

select DISTINCT SALARY from Trainees



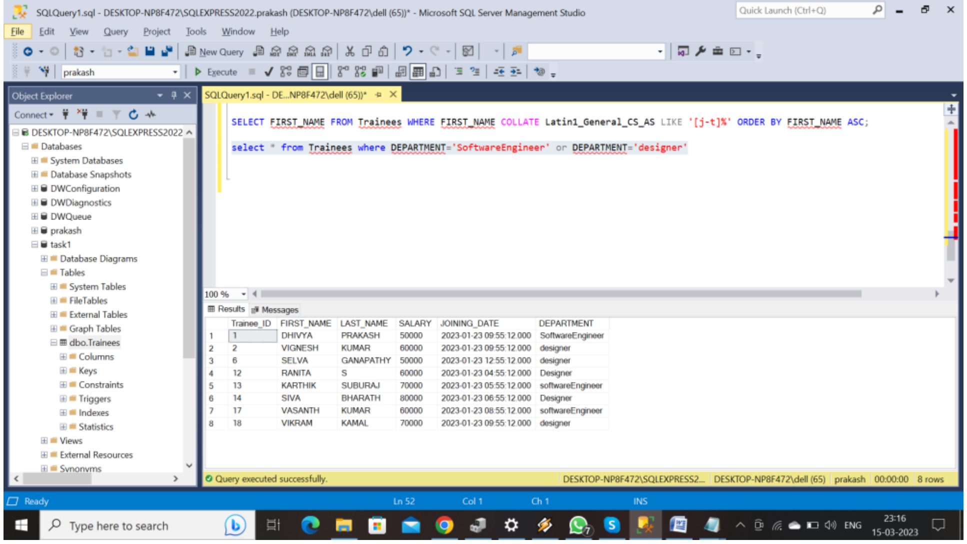
```
select * from Trainees where FIRST_NAME like '%i'

select DISTINCT SALARY from Trainees
```

	SALARY
1	50000
2	60000
3	70000
4	80000
5	90000

Query executed successfully.

5. Retrieve all records whose department is Developer and Designer

select * from Trainees where DEPARTMENT='SoftwareEngineer' or DEPARTMENT='designer'



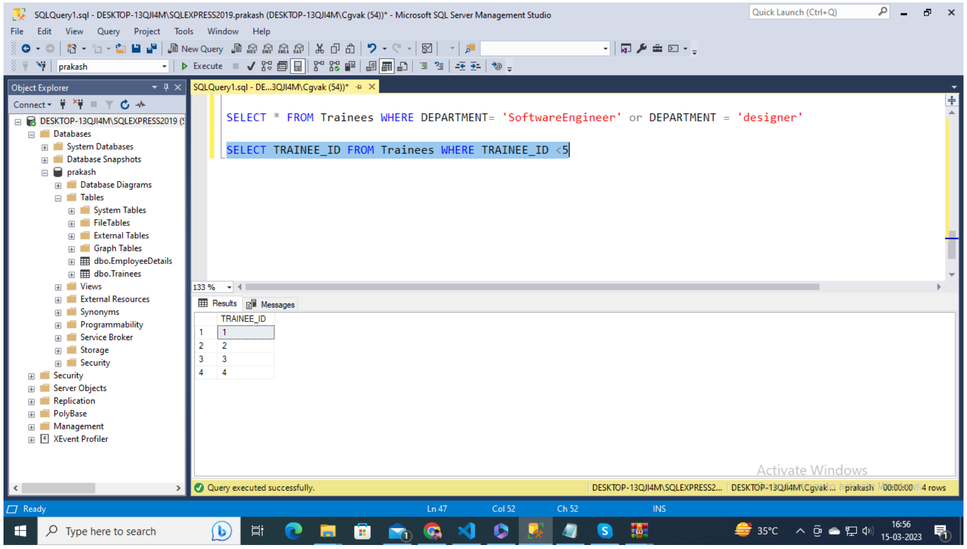
```
SELECT FIRST_NAME FROM Trainees WHERE FIRST_NAME COLLATE Latin1_General_CS_AS LIKE '[j-t]%' ORDER BY FIRST_NAME ASC;

select * from Trainees where DEPARTMENT='SoftwareEngineer' or DEPARTMENT='designer'
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	1	DHIVYA	PRAKASH	50000	2023-01-23 09:55:12.000	SoftwareEngineer
2	2	VIGNESH	KUMAR	60000	2023-01-23 09:55:12.000	designer
3	6	SELVA	GANAPATHY	50000	2023-01-23 12:55:12.000	designer
4	12	RANITA	S	60000	2023-01-23 04:55:12.000	Designer
5	13	KARTHIK	SUBURAJ	70000	2023-01-23 05:55:12.000	softwareEngineer
6	14	SIVA	BHARATH	80000	2023-01-23 06:55:12.000	Designer
7	17	VASANTH	KUMAR	60000	2023-01-23 08:55:12.000	softwareEngineer
8	18	VIKRAM	KAMAL	70000	2023-01-23 09:55:12.000	designer

Query executed successfully.

6. Retrieve all Trainee_ID less than 5

SELECT TRAINEE_ID FROM Trainees WHERE TRAINEE_ID <5



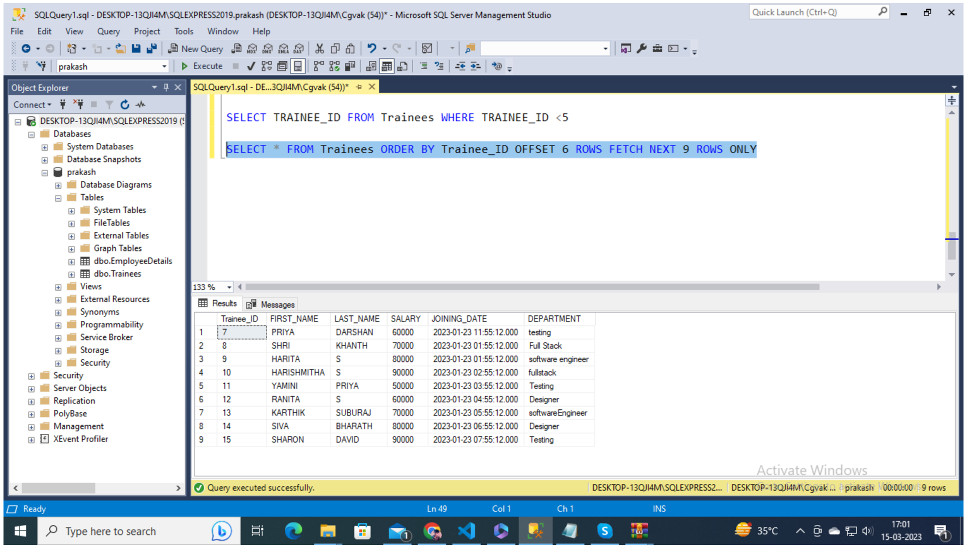
```
SELECT * FROM Trainees WHERE DEPARTMENT= 'SoftwareEngineer' or DEPARTMENT = 'designer'

SELECT TRAINEE_ID FROM Trainees WHERE TRAINEE_ID <5
```

	TRAINEE_ID
1	1
2	2
3	3
4	4

Query executed successfully.

7. Limit the records by retrieving the 6 to 15 records

SELECT * FROM Trainees ORDER BY Trainee_ID OFFSET 6 ROWS FETCH NEXT 9 ROWS ONLY



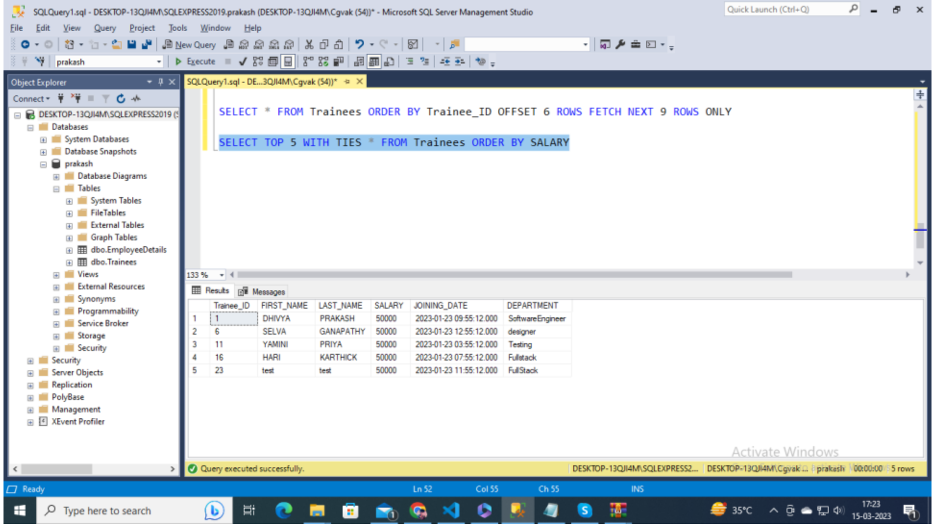
```
SELECT TRAINEE_ID FROM Trainees WHERE TRAINEE_ID <5

SELECT * FROM Trainees ORDER BY Trainee_ID OFFSET 6 ROWS FETCH NEXT 9 ROWS ONLY
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	7	PRIYA	DARSHAN	60000	2023-01-23 11:55:12.000	testing
2	8	SHRI	KHANTH	70000	2023-01-23 01:55:12.000	Full Stack
3	9	HARITA	S	80000	2023-01-23 01:55:12.000	software engineer
4	10	HARISHMITHA	S	90000	2023-01-23 02:55:12.000	fullstack
5	11	YAMINI	PRIYA	50000	2023-01-23 03:55:12.000	Testing
6	12	RANITA	S	60000	2023-01-23 04:55:12.000	Designer
7	13	KARTHIK	SUBURAJ	70000	2023-01-23 05:55:12.000	softwareEngineer
8	14	SIVA	BHARATH	80000	2023-01-23 06:55:12.000	Designer
9	15	SHARON	DAVID	90000	2023-01-23 07:55:12.000	Testing

Query executed successfully.

8. Retrieve the top 5 records with Ties

SELECT TOP 5 WITH TIES * FROM Trainees ORDER BY SALARY



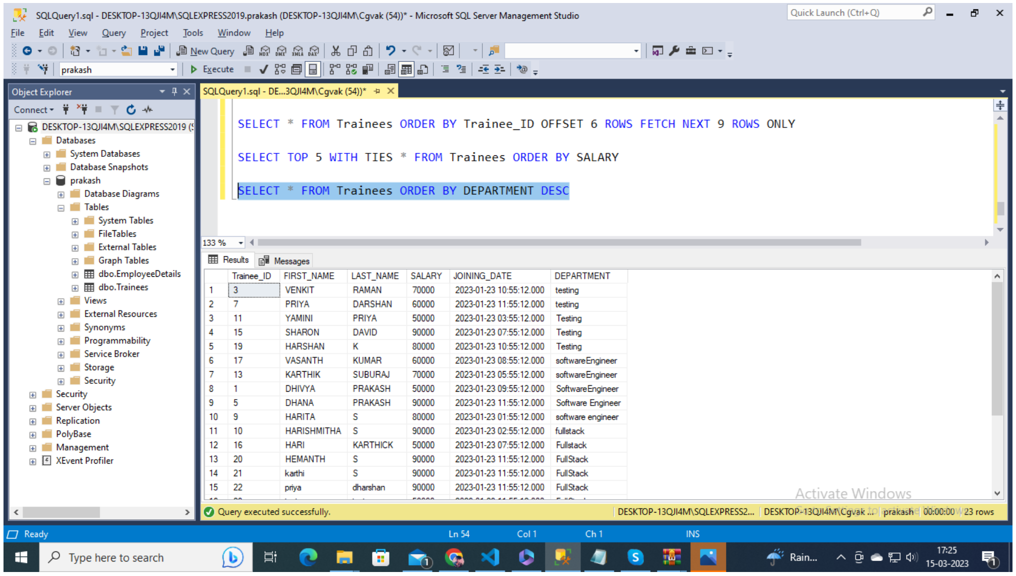
```
SELECT * FROM Trainees ORDER BY Trainee_ID OFFSET 6 ROWS FETCH NEXT 9 ROWS ONLY

SELECT TOP 5 WITH TIES * FROM Trainees ORDER BY SALARY
```

	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	1	DHIVYA	PRAKASH	50000	2023-01-23 09:55:12.000	SoftwareEngineer
2	6	SELVA	GANAPATHY	50000	2023-01-23 12:55:12.000	designer
3	11	YAMINI	PRIYA	50000	2023-01-23 03:55:12.000	Testing
4	16	HARI	KARTHICK	50000	2023-01-23 07:55:12.000	Fullstack
5	23	test	test	50000	2023-01-23 11:55:12.000	FullStack

Query executed successfully.

9. Retrieve the records in descending order based on department column.

SELECT * FROM Trainees ORDER BY DEPARTMENT DESC



SQLQuery1.sql - DESKTOP-13QJI4M\SQLEXPRESS2019.prakash (DESKTOP-13QJI4M\Cgvak (54))* - Microsoft SQL Server Management Studio

```sql
SELECT * FROM Trainees ORDER BY Trainee_ID OFFSET 6 ROWS FETCH NEXT 9 ROWS ONLY

SELECT TOP 5 WITH TIES * FROM Trainees ORDER BY SALARY

SELECT * FROM Trainees ORDER BY DEPARTMENT DESC
```

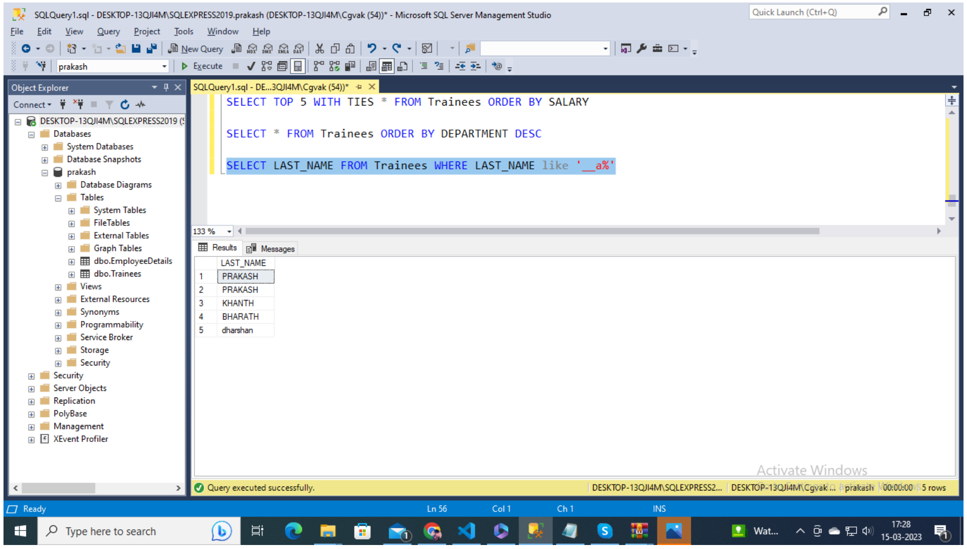
	Trainee_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	3	VENKIT	RAMAN	70000	2023-01-23 10:55:12.000	testing
2	7	PRIYA	DARSHAN	60000	2023-01-23 11:55:12.000	testing
3	11	YAMINI	PRIYA	50000	2023-01-23 03:55:12.000	Testing
4	15	SHARON	DAVID	90000	2023-01-23 07:55:12.000	Testing
5	19	HARSHAN	K	80000	2023-01-23 10:55:12.000	Testing
6	17	VASANTH	KUMAR	60000	2023-01-23 08:55:12.000	softwareEngineer
7	13	KARTHIK	SUBURAJ	70000	2023-01-23 05:55:12.000	softwareEngineer
8	1	DHIVYA	PRAKASH	50000	2023-01-23 09:55:12.000	SoftwareEngineer
9	5	DHANA	PRAKASH	90000	2023-01-23 11:55:12.000	Software Engineer
10	9	HARITA	S	80000	2023-01-23 01:55:12.000	software engineer
11	10	HARISHMITHA	S	90000	2023-01-23 02:55:12.000	fullstack
12	16	HARI	KARTHICK	50000	2023-01-23 07:55:12.000	Fullstack
13	20	HEMANTH	S	90000	2023-01-23 11:55:12.000	FullStack
14	21	karthi	S	90000	2023-01-23 11:55:12.000	FullStack
15	22	priya	dharshan	90000	2023-01-23 11:55:12.000	FullStack

Query executed successfully.

23 rows

10. Retrieve all last_name with 3rd character as 'a.'

SELECT LAST_NAME FROM Trainees WHERE LAST_NAME like '__a%'



SQLQuery1.sql - DESKTOP-13QJI4M\SQLEXPRESS2019.prakash (DESKTOP-13QJI4M\Cgvak (54))* - Microsoft SQL Server Management Studio

```sql
SELECT TOP 5 WITH TIES * FROM Trainees ORDER BY SALARY

SELECT * FROM Trainees ORDER BY DEPARTMENT DESC

SELECT LAST_NAME FROM Trainees WHERE LAST_NAME like '__a%'
```

	LAST_NAME
1	PRAKASH
2	PRAKASH
3	KHANTH
4	BHARATH
5	dharshan

Query executed successfully.

5 rows

……………………………………………………………………THANK YOU……………………………………………………………………