

```
-- Create the Student table
CREATE TABLE Student (
    RollNo INT PRIMARY KEY,
    Name VARCHAR(100),
    Marks INT,
    AadharNumber VARCHAR(12) UNIQUE,
    Address VARCHAR(255)
);

-- Create the Course table
CREATE TABLE Course (
    RollNo INT,
    Course VARCHAR(100),
    Course_Duration INT,
    FOREIGN KEY (RollNo) REFERENCES Student(RollNo)
);

-- Insert data into the Student table
INSERT INTO Student (RollNo, Name, Marks, AadharNumber, Address) VALUES
(1, 'ANIKET', 85, '123456789012', 'UP 16'),
(2, 'AKSHIT', 70, '234567890123', 'HR 26'),
(3, 'ARJUN', 25, '345678901234', 'HR 29'),
(4, 'HARSH', 90, '456789012345', 'HR 51'),
(5, 'MAYANK', 20, '567890123456', 'HR 87'),
(6, 'NOOR', 75, '678901234567', 'DL 9');

-- Insert data into the Course table
INSERT INTO Course (RollNo, Course, Course_Duration) VALUES
(1, 'BCA', 3),
(2, 'MCA', 2),
(3, 'BCA', 3),
(4, 'BSc', 3),
(5, 'BCA', 3),
(6, 'MCA', 2);

-- Calculate the average of marks
SELECT AVG(Marks) AS AverageMarks FROM Student;

-- Arrange names in ascending order
SELECT Name FROM Student ORDER BY Name ASC;

-- Extract RollNo and names of students scoring below 30 out of 100
SELECT RollNo, Name FROM Student WHERE Marks < 30;

-- Extract RollNo of students whose names start with 'R'
SELECT RollNo FROM Student WHERE Name LIKE 'R%';
```

```
-- Extract RollNo of students pursuing BCA
SELECT Course.RollNo FROM Course
JOIN Student ON Course.RollNo = Student.RollNo
WHERE Course.Course = 'BCA';
```

OUTPUT:-

AverageMarks

60.83333333333336

Name

AKSHIT

ANIKET

ARJUN

HARSH

MAYANK

NOOR

RollNo	Name
--------	------

3	ARJUN
---	-------

5	MAYANK
---	--------

RollNo

1

3

5

Safari File Edit View History Bookmarks Window Help

programiz.com

RADO SWITZERLAND

TRUE SQUARE & CAPTAIN COOK

DISCOVER NOW

Interactive SQL Course

Course [-]

- RollNo [int]
- Course [varchar(100)]
- Course_Duration [int]

Customers [-]

- customer_id [int]
- first_name [varchar(100)]
- last_name [varchar(100)]
- age [int]
- country [varchar(100)]

Orders [-]

- order_id [integer]
- item [varchar(100)]
- amount [integer]
- customer_id [integer]

Shipments [-]

- shipping_id [integer]
- status [integer]
- customer [integer]

Input

```
SELECT AVG(Marks) AS AverageMarks FROM Student;  
-- Arrange names in ascending order  
SELECT Name FROM Student ORDER BY Name ASC;  
  
-- Extract RollNo and names of students scoring below 30 out of 100  
SELECT RollNo, Name FROM Student WHERE Marks < 30;  
  
-- Extract RollNo of students whose names start with 'R'  
SELECT RollNo FROM Student WHERE Name LIKE 'R%';  
  
-- Extract RollNo of students pursuing BCA  
SELECT Course.RollNo FROM Course  
JOIN Student ON Course.RollNo = Student.RollNo  
WHERE Course.Course = 'BCA';
```

Run SQL

Available Tables

4	Keyboard	400	1
5	Mousepad	250	2

Shipments

shipping_id	status	customer
1	Pending	2
2	Pending	4
3	Delivered	3
4	Pending	5
5	Delivered	1

Output

AverageMarks

60.83333333333336

Name

AKSHIT

ANIKET

ARJUN

ARJUN

Student

RollNo	Name	Marks	AadharNumber
1	ANIKET	85	123456789012
2	AKSHIT	70	234567890123
3	ARJUN	25	345678901234
4	HARSH	90	456789012345
5	MAYANK	20	567890123456
6	NOOR	75	678901234567

Safari File Edit View History Bookmarks Window Help

programiz.com

RADO SWITZERLAND

CAPTAIN COOK & TRUE SQUARE

DISCOVER NOW

Interactive SQL Course

Course [-]

- RollNo [int]
- Course [varchar(100)]
- Course_Duration [int]

Customers [-]

- customer_id [int]
- first_name [varchar(100)]
- last_name [varchar(100)]
- age [int]
- country [varchar(100)]

Orders [-]

- order_id [integer]
- item [varchar(100)]
- amount [integer]
- customer_id [integer]

Shipments [-]

- shipping_id [integer]
- status [integer]
- customer [integer]

Input

```
SELECT AVG(Marks) AS AverageMarks FROM Student;  
-- Arrange names in ascending order  
SELECT Name FROM Student ORDER BY Name ASC;  
  
-- Extract RollNo and names of students scoring below 30 out of 100  
SELECT RollNo, Name FROM Student WHERE Marks < 30;  
  
-- Extract RollNo of students whose names start with 'R'  
SELECT RollNo FROM Student WHERE Name LIKE 'R%';  
  
-- Extract RollNo of students pursuing BCA  
SELECT Course.RollNo FROM Course  
JOIN Student ON Course.RollNo = Student.RollNo  
WHERE Course.Course = 'BCA';
```

Run SQL

Available Tables

4	Keyboard	400	1
5	Mousepad	250	2

Shipments

shipping_id	status	customer
1	Pending	2
2	Pending	4
3	Delivered	3
4	Pending	5
5	Delivered	1

Output

RollNo	Name
3	ARJUN
5	MAYANK

RollNo

1

3

5

Student

RollNo	Name	Marks	AadharNumber
1	ANIKET	85	123456789012
2	AKSHIT	70	234567890123
3	ARJUN	25	345678901234
4	HARSH	90	456789012345
5	MAYANK	20	567890123456
6	NOOR	75	678901234567