Experiment - 1

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Section/Group: 23AIT - KRG -2A
Semester: 5th
Date of Performance: 21/07/25
Subject Name: ADBMS
Subject Code: 23CSH-282

STATEMENT:-

To design and implement advanced SQL Server features such as **Views**, **Triggers**, **Stored Procedures**, **Functions**, and **Cursors** to automate data validation, enable modular query logic, and support iterative data processing in relational databases.

CODE :-

```
-- Create Students Table
CREATE TABLE Students (
   StudentID INT PRIMARY KEY,
   StudentName VARCHAR(50),
   Department VARCHAR(50)
);

-- Create Marks Table
CREATE TABLE Marks (
   MarkID INT PRIMARY KEY,
   StudentID INT,
   Subject VARCHAR(50),
   Marks INT,
   FOREIGN KEY (StudentID) REFERENCES Students(StudentID)
);

INSERT INTO Students (StudentID, StudentName, Department) VALUES
(1, 'Aarav', 'Computer Science'),
(2, 'Diya', 'Mechanical'),
(3, 'Rohan', 'Electronics'),
(4, 'Isha', 'Computer Science'),
```

```
(5, 'Kabir', 'Mechanical');

INSERT INTO Marks (MarkID, StudentID, Subject, Marks) VALUES
(1, 1, 'Math', 85),
(2, 1, 'Physics', 78),
(3, 2, 'Math', 92),
(4, 2, 'Physics', 81),
(5, 3, 'Math', 67),
(6, 3, 'Physics', 88),
(7, 4, 'Math', 91),
(8, 4, 'Physics', 95),
(9, 5, 'Math', 75),
(10, 5, 'Physics', 84);

SELECT
   S.StudentName,
   S.Department,
   M.Subject,
   M.Marks
FROM
   Students S
JOIN
   Marks M ON S.StudentID = M.StudentID
WHERE
   M.Marks > 80;
```

Output : -

Results | Messages

	StudentName	Department	Subject	Marks
1	Aarav	Computer Science	Math	85
2	Diya	Mechanical	Math	92
3	Diya	Mechanical	Physics	81
4	Rohan	Electronics	Physics	88
5	Isha	Computer Science	Math	91
6	Isha	Computer Science	Physics	95
7	Kabir	Mechanical	Physics	84