

LAB 5: USE of Trigger

CREATE DATABASE LAB5

USE LAB5

1. **Create a table student (sid, sname, marks, address) and studentlog (logid, sid, actiontype, actiontime)**

```
CREATE TABLE student(  
sid int primary key,  
sname varchar(30),  
marks int,  
saddress varchar(40)  
)  
Select * from student
```

sid	sname	marks	saddress
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```
CREATE TABLE studentlog(  
logid int identity(1,1),  
sid int ,  
actiontype varchar(30),  
actiontime date  
foreign key(sid) references student(sid)  
)  
select * from studentlog
```

logid	sid	actiontype	actiontime
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2. Create a trigger studentlog trigger in which log of student table inserted automatically when new data inserted to student table

```
CREATE TRIGGER studentlog_trigger
ON student
AFTER INSERT
AS
BEGIN
    INSERT INTO studentlog (sid, actiontype, actiontime)
    SELECT sid, 'INSERT', GETDATE()
    FROM inserted;
END;
```

```
Commands completed successfully.

Completion time: 2025-08-13T07:22:03.9016143+05:45

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```

```
INSERT INTO student (sid, sname, marks, saddress)
VALUES (2, 'Abinash', 68, 'Kathmandu');
Select * from studentlog
```

	logid	sid	actiontype	actiontime
1	1	2	INSERT	2025-08-13

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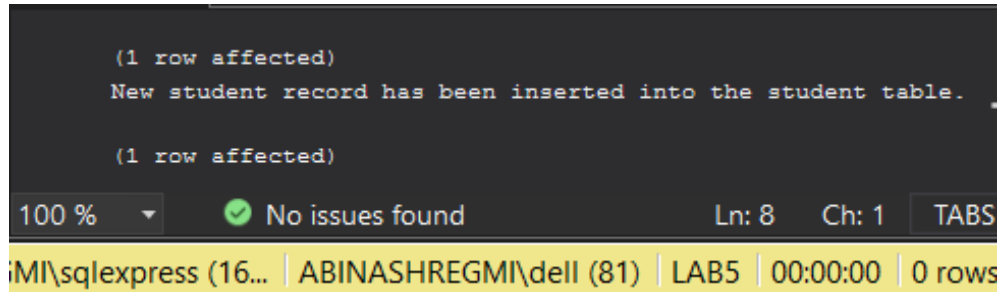
```
Select * from student
```

	sid	sname	marks	saddress
1	2	Abinash	68	Kathmandu

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3. Create a trigger 'student_message' after inserting dates to student table

```
CREATE TRIGGER student_message
ON student
AFTER INSERT
AS
BEGIN
    PRINT 'New student record has been inserted into the student table.';
END;
```



4. Create a trigger 'student_totalmarks' to find total marks and display it

```
CREATE TRIGGER student_totalmarks
ON student
AFTER INSERT
AS
BEGIN
    DECLARE @total DECIMAL(10,2);
    SELECT @total = SUM(marks)
    FROM student;
    PRINT 'Total marks of all students: ' + CAST(@total AS VARCHAR(20));
END;
```

```
INSERT INTO student (sid, sname, marks, saddress)
VALUES (10, 'Ram', 85.50, 'Kathmandu');
```

