
DBMS-SQL: Trigger

Syntax:

```
Create Trigger Trigger_Name  
(Before | After)  [ Insert | Update | Delete]  
on [Table_Name]  
[ for each row | for each column ]  
[ trigger_body ]
```

Student table:

<u>studentID</u>	<u>FName</u>	<u>LName</u>	<u>Address</u>	<u>City</u>	<u>Marks</u>
1	Vinod	Singh	Naini	Allahabad	85
3	Vivek	Singh	Naini	Allahabad	55
4	Viswas	Singh	Naini	Allahabad	85
5	LM	Mishra	Santipuram	Allahabd	175
6	Sangam	Kumar	Ramnagar	Ambedakar nagar	150
7	abc	xyz	123	Allad	120
8	H	l	bbb	kkkk	135

Triggers:

Trigger Name	Table	Time	Event
calculate	student	BEFORE	INSERT
total_mark	student	AFTER	INSERT

Trigger ‘calculate’:-

```
CREATE TRIGGER calculate  
before INSERT  
ON student  
FOR EACH ROW  
SET new.marks = new.marks+100;
```

Trigger ‘total_mark’;

```
CREATE TRIGGER total_mark  
after insert  
ON student  
FOR EACH ROW  
insert into Final_mark values(new.marks);
```

Final_mark Table:

```
create table Final_mark(  
per int );
```

Output:

<u>per</u>
150
120
135

Add FName and LName in Final_mark Table and then apply trigger:

Adding column in the table: apply following query-

Edit trigger 'total_mark by:

```
insert into Final_mark (FName,LName,per) values (new.FName,new.LName,new.marks)
```

Now insert record in student table:

```
INSERT INTO `student`(`studentID`, `FName`, `LName`, `Address`, `City`,  
`Marks`) VALUES (Null,'P','Q','xyz','pqr','40');
```

Old OUTPUT:

<u>FName</u>	<u>LName</u>	<u>per</u>
NULL	NULL	150
NULL	NULL	120
H	l	135

New output:

<u>FName</u>	<u>LName</u>	<u>per</u>
NULL	NULL	150
NULL	NULL	120
H	l	135
P	Q	140

DROP A Trigger:

```
DROP TRIGGER trigger name;
```

Display A Trigger :

```
SHOW TRIGGERS IN database_name;
```