



ASSIGNMENT _10 MYSQL **Triggers**

TEACHERS TABLE

Result Grid

Filter Rows:

Edit:

Export/Import

	ID	Name	Subject	Experience	Salary
▶	1	Soosan	Maths	10	53000.00
	2	Praveen	Physics	8	50000.00
	3	Vikram Mehtha	History	14	53000.00
	4	Gouthami	Malayalam	7	50000.00
	5	Manoj Kumar	Biology	11	53000.00
	6	Parvathi Krisna	Chemistry	8	50000.00
	7	Lthika	Geography	14	55000.00
	8	Gopan	English	9	50000.00
●	NULL	NULL	NULL	NULL	NULL

2. Create a before insert trigger named before_insert_teacher that will raise an error “salary cannot be negative” -- if the salary inserted to the table is less than zero.

```
35 DELIMITER ;  
36 • insert into teachers(ID,Name,subject,experience,salary)values(18,'David','sports',5,-25000);  
37 • DROP TRIGGER before_insert_Teacher ;
```

Output











Action Output

#	Time	Action	Message	Duration / Fetch
❌ 1	12:11:35	insert into teachers(ID,Name,subject,experience,salary)values(18,'David','sp...	Error Code: 1644. Salary cannot be negative	0.000 sec

3. Create an after insert trigger named after_insert_teacher that inserts a row with teacher_id, action -- timestamp to a table called teacher_log when a new entry gets inserted to the teacher table. -- teacher_id -> column of teacher table, action -> the trigger action, -- timestamp -> time at which the new row has got inserted.

```
55 • insert into teachers(ID,Name,subject,experience,salary)values(11,'David','sports',5,25000);  
56 • SELECT * FROM TEACHER_LOG;
```

Result Grid			Filter Rows: <input type="text"/>	Edit: 			Export/Import: 		Wrap Cell Content: 
	log_id	teacher_id	action	timestamp					
▶	1	11	insert	2024-11-23 11:39:50					

4. Create a before delete trigger that will raise an error when you try to delete a row that has experience -- greater than 10 years.

```
70 • DELETE from Teachers where experience=14;
71 • set sql_safe_updates=0;
72
73 -- 5. Create an after delete trigger that will insert a row to teacher_log table when that row is deleted from teacher table.
```

Output






Action Output

#	Time	Action	Message	Duration / Fetch
❌ 1	11:58:07	DELETE from Teachers where experience=14	Error Code: 1644. Cannot delete teacher with more than 10 years of experie...	0.000 sec


```
84 • DELETE from Teachers where experience=8;
```

```
85 SELECT * FROM TEACHER_LOG;
```

Result Grid		Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	log_id	teacher_id	action	timestamp
▶	1	11	insert	2024-11-23 11:39:50
	2	2	delete	2024-11-23 12:01:45
	3	6	delete	2024-11-23 12:01:45

5. Create an after delete trigger that will insert a row to teacher_log table when that row is deleted from teacher table.

DELETED 2 ROWS FROM TEACHERS
TABLE