TASK AND RESULTS

```
 9
 0    -- 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.
 1
 2    DELIMITER $$
 3 •  CREATE TRIGGER before_insert_teacher
 4    BEFORE INSERT ON teachers
 5    FOR EACH ROW
 6  ⊖ BEGIN
 7  ⊖    IF NEW.salary < 0 THEN
 8           SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Salary cannot be negative';
 9        END IF;
 0    END $$
 1    DELIMITER ;
 2 •  INSERT INTO teachers (id, name, subject, experience, salary)
 3    VALUES (9, 'Ivan Rose', 'Music', 6, -50000.00);
 4
```

Action Output

#	Time	Action	Message	Duration / Fetch
2	23:53:05	INSERT INTO teachers (id, name, subject, experience, salary) VALUES (1, 'Archana Anil', 'Mathematics', 10, 50...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.016 sec
3	23:54:18	CREATE TRIGGER before_insert_teacher BEFORE INSERT ON teachers FOR EACH ROW BEGIN IF NE...	0 row(s) affected	0.000 sec
4	23:55:16	INSERT INTO teachers (id, name, subject, experience, salary) VALUES (9, 'Ivan Rose', 'Music', 6, -50000.00)	Error Code: 1644. Salary cannot be negative	0.000 sec

```
42
43    DELIMITER $$
44 •  CREATE TRIGGER after_insert_teacher
45    AFTER INSERT ON teachers
46    FOR EACH ROW
47  ⊖ BEGIN
48        INSERT INTO teacher_log (teacher_id, action, timestamp)
49        VALUES (NEW.id, 'INSERT', NOW());
50    END $$
51    DELIMITER ;
52 •  INSERT INTO teachers (id, name, subject, experience, salary)
53    VALUES (9, 'Ivan Rose', 'Music', 6, 50000.00);
54 •  SELECT * FROM teacher_log;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

log_id	teacher_id	action	timestamp
1	9	INSERT	2024-12-01 23:58:45
NULL	NULL	NULL	NULL

teacher_log 1 ✕

3

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

DELIMITER $$
CREATE TRIGGER before_delete_teacher
BEFORE DELETE ON teachers
FOR EACH ROW
BEGIN
    IF OLD.experience > 10 THEN
        SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Cannot delete a teacher with more than 10 years of experience';
    END IF;
END $$
DELIMITER ;
DELETE FROM teachers WHERE id = 4;
```

Action Output

#	Time	Action	Message	Duration / Fetch
8	23:59:07	SELECT * FROM teacher_log LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 se
9	00:00:15	CREATE TRIGGER before_delete_teacher BEFORE DELETE ON teachers FOR EACH ROW BEGIN IF O...	0 row(s) affected	0.000 sec
10	00:00:30	DELETE FROM teachers WHERE id = 4	Error Code: 1644. Cannot delete a teacher with more than 10 years of experience	0.000 sec

4

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

DELIMITER $$
CREATE TRIGGER after_delete_teacher
AFTER DELETE ON teachers
FOR EACH ROW
BEGIN
    INSERT INTO teacher_log (teacher_id, action, timestamp)
    VALUES (OLD.id, 'DELETE', NOW());
END $$
DELIMITER ;
DELETE FROM teachers WHERE id = 2;
SELECT * FROM teacher_log;
```

Result Grid

log_id	teacher_id	action	timestamp
1	9	INSERT	2024-12-01 23:58:45
2	2	DELETE	2024-12-02 00:01:46
NULL	NULL	NULL	NULL

teacher_log 2 ×