## TASK - 9

1. Create a table named teachers with fields id, name, subject, experience and salary and insert 8 rows.

```
1 •
       CREATE DATABASE school;
 2 •
       USE school;
 3
 4 • ⊖ CREATE TABLE teachers (
 5
         Id INT,
         Name VARCHAR(50),
 6
7
         Subject VARCHAR(40),
         experience INT,
 9
         salary BIGINT );
10
       INSERT INTO teachers VALUES
11 •
       (100, 'RESHMA', 'MATHEMATICS', 10, 100000),
12
       (101, 'ARATHI', 'COMPUTER', 9, 90000),
13
14
       (102, 'ABID', 'BIOLOGY', 10, 100000),
       (103, 'SONA', 'CHEMISTRY', 11, 110000),
15
       (104, 'JISHA', 'HINDI', 12, 120000),
16
       (105, 'NIAM', 'MALAYALAM', 8, 80000),
17
18
       (106, 'CHRISTINA', 'GEOLOGY', 6, 60000),
       (107, 'JOSEPH', 'PHYSICS', 4, 40000);
19
20
       SELECT * FROM teachers;
21 •
22
```

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.

```
• CREATE TABLE message (
    id INT AUTO_INCREMENT PRIMARY KEY,
    message_id INT,
    message VARCHAR(300));

DELIMITER //

• CREATE TRIGGER before_insert_teacher
    BEFORE INSERT ON teachers
    FOR EACH ROW

• BEGIN

IF NEW.salary IS NULL THEN
        INSERT INTO message VALUES
        (NEW.id, CONCAT('Hi ', NEW.Name, ' SALARY CANNOT BE NEGATIVE'));
    END IF;
    END //

DELIMITER;
```

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. tecaher\_id -> column of teacher table, action -> the trigger action, timestamp -> time at which the new row has got inserted.

```
42 • ○ CREATE TABLE teacher_log (
           teacher_id INT,
43
           action VARCHAR(50),
44
45
           timestamp TIMESTAMP DEFAULT CURRENT TIMESTAMP
     );
46
47
       DELIMITER //
       CREATE TRIGGER after_insert_teacher
50 •
       AFTER INSERT ON teachers
51
       FOR EACH ROW
52
53 ⊖ BEGIN
           INSERT INTO teacher log VALUES
54
           (NEW.Id, 'INSERT', NOW());
55
56
     END;
       END //
57
58
59
       DELIMITER;
```

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.

```
CREATE TRIGGER before_delete_teacher

BEFORE DELETE ON teachers

FOR EACH ROW

BEGIN

IF OLD.experience > 10 THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE_TEXT = 'THIS TEACHER HAVE MORE THAN 10 YEAR OF EXP';

END IF;

END;

END;

END //
```

5. 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 VALUES

(OLD.Id, 'DELETE', NOW());

END;

END;

END //

DELIMITER;
```