

MySQL Workbench

Local instance MySQL80

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No object selected

Object Info Session

ASSIGNMENT6 ASSIGNMENT7 SQL File 16* script procedures ASSIGNMENT8 more procedures ASSIGNMENT9 Triggers* ASSIGNMENT 10 SQL File 2

Limit to 1000 rows

```

1 USE entri_d42;
2 CREATE TABLE Teachers (
3     Id INT AUTO_INCREMENT PRIMARY KEY,
4     Name VARCHAR(50) NOT NULL,
5     Subject VARCHAR(50) NOT NULL,
6     Experience INT NOT NULL,
7     Salary DECIMAL(10,2) NOT NULL
8 );
9 INSERT INTO Teachers(Name,Subject,Experience,Salary) VALUES
10 ('John vargese','Mathematics',5,60000),
11 ('Mary curie','Physics',7,62000),
12 ('Lion smith','Chemistry',3,45000),
13 ('Emily davis','Biology',10,68000),
14 ('Elizabeth deyn','English',2,40000),
15 ('Laura white','History',4,50000),
16 ('Christopher luis','Geography',12,75000),
17 ('William johns','Computer science',8,65000);

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	19:24:57	DELETE FROM Teachers WHERE name='Christopher Luis'	Error Code: 1644. Can not delete a teacher with more than 10 years of experience	0.000 sec
11	19:30:19	CREATE TRIGGER after_delete_teacher AFTER DELETE ON Teachers FOR EACH ROW	0 row(s) affected	0.031 sec

SQL script saved to 'G:\My Drive\ENTRI\DSML D42\MySQL\ASSIGNMENT 10.sql'

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```

18
19 -- creating the before_insert_teacher_trigger
20 DELIMITER //
21 CREATE TRIGGER before_insert_teacher
22 BEFORE INSERT ON Teachers
23 FOR EACH ROW
24 BEGIN
25     IF NEW.Salary < 0 THEN
26         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT='Salary can not be negative.';
27     END IF;
28 END //
29 DELIMITER ;
30
31 INSERT INTO Teachers VALUES (9,'Adam john','Mathematics',4,-10000);
32
33 -- create teacher_log table and after_insert_teacher trigger
34

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	19:24:57	DELETE FROM Teachers WHERE name='Christopher Luis'	Error Code: 1644. Can not delete a teacher with more than 10 years of experience	0.000 sec
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```

33 -- create teacher_log table and after_insert_teacher trigger
34
35 CREATE TABLE Teacher_log(
36     log_id INT AUTO_INCREMENT PRIMARY KEY,
37     Teacher_id INT NOT NULL,
38     Action VARCHAR(50) NOT NULL,
39     Action_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP
40 );
41 DELIMITER //
42 CREATE TRIGGER after_insert_teacher
43 AFTER INSERT ON Teachers
44 FOR EACH ROW
45 BEGIN
46     INSERT INTO Teacher_log(Teacher_id,Action) VALUES (NEW.id,'Inserted');
47 END //
48 DELIMITER ;
49

```

Output

Action Output

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```

49
50 -- create the before_delete_teacher trigger
51 DELIMITER //
52 CREATE TRIGGER before_delete_teacher
53 BEFORE DELETE ON Teachers
54 FOR EACH ROW
55 BEGIN
56     IF OLD.Experience >10 THEN
57         SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT='Can not delete a teacher with more than 10 years of experience';
58     END IF;
59 END //
60 DELIMITER ;
61
62 set sql_safe_updates = 0;
63 DELETE FROM Teachers WHERE name='Christopher Luis';
64
65 -- create after_delete_teacher trigger

```

Output

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