

## MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help



- □ X

## Navigator

SCHEMAS

Filter objects

teacher

## SQL File 3\*

```
1 • CREATE DATABASE TEACHER;
2 • USE TEACHER;
3 • CREATE TABLE teachers (
4     id INT PRIMARY KEY AUTO_INCREMENT,
5     name VARCHAR(100),
6     subject VARCHAR(100),
7     experience INT,
8     salary DECIMAL(10, 2)
9 );
10
11 • INSERT INTO teachers (name, subject, experience, salary)
12 VALUES
13     ('John Doe', 'Mathematics', 5, 50000),
14     ('Jane Smith', 'Physics', 8, 60000),
15     ('Emily Davis', 'Chemistry', 12, 70000),
16     ('David Johnson', 'Biology', 3, 45000),
17     ('Sarah Wilson', 'English', 15, 55000),
18     ('Michael Brown', 'History', 2, 40000),
19     ('Laura White', 'Geography', 10, 65000),
20     ('James Black', 'Computer Science', 6, 75000);
```

Administration Schemas

Information

Schema: teacher

## SQL Additions

My Snippets

Context Help Snippets

## Output

## Action Output

#	Time	Action
1	13:35:16	CREATE DATABASE TEACHER

Message  
1 row(s) affected

Duration / Fetch  
0.031 sec

Object Info Session



Search

ENG  
IN13:35  
07-12-2024

## MySQL Workbench

Local instance MySQL80

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## Navigator

SCHEMAS

Filter objects  
teacher  
Tables  
Views  
Stored Procedures  
Functions

Administration Schemas

Information

Schema: teacher

SQL File 3\*

SQL File 4\*

```
1 • CREATE DATABASE TEACHER;
2 • USE TEACHER;
3 • CREATE TABLE teachers (
4     id INT PRIMARY KEY AUTO_INCREMENT,
5     name VARCHAR(100),
6     subject VARCHAR(100),
7     experience INT,
8     salary DECIMAL(10, 2)
9 );
10
11 • INSERT INTO teachers (name, subject, experience, salary)
12 VALUES
13     ('John Doe', 'Mathematics', 5, 50000),
14     ('Jane Smith', 'Physics', 8, 60000),
15     ('Emily Davis', 'Chemistry', 12, 70000),
16     ('David Johnson', 'Biology', 3, 45000),
17     ('Sarah Wilson', 'English', 15, 55000),
18     ('Michael Brown', 'History', 2, 40000),
19     ('Laura White', 'Geography', 10, 65000),
20     ('James Black', 'Computer Science', 6, 75000);
```

SQL Additions

My Snippets

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	13:35:16	CREATE DATABASE TEACHER	1 row(s) affected	0.031 sec
2	13:35:28	USE TEACHER	0 row(s) affected	0.000 sec

Object Info Session



Search

ENG  
IN13:35  
07-12-2024

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

teacher

Tables

Columns

id  
name  
subject  
experience  
salary

Indexes  
Foreign Keys  
Triggers

Views  
Stored Procedures  
Functions

Administration Schemas

Information

Schema: teacher

SQL File 3\* SQL File 4\*

CREATE DATABASE TEACHER;

USE TEACHER;

CREATE TABLE teachers (

    id INT PRIMARY KEY AUTO\_INCREMENT,

    name VARCHAR(100),

    subject VARCHAR(100),

    experience INT,

    salary DECIMAL(10, 2)

);

INSERT INTO teachers (name, subject, experience, salary)

VALUES

    ('John Doe', 'Mathematics', 5, 50000),

    ('Jane Smith', 'Physics', 8, 60000),

    ('Emily Davis', 'Chemistry', 12, 70000),

    ('David Johnson', 'Biology', 3, 45000),

    ('Sarah Wilson', 'English', 15, 55000),

    ('Michael Brown', 'History', 2, 40000),

    ('Laura White', 'Geography', 10, 65000),

    ('James Black', 'Computer Science', 6, 75000);

SQL Additions

My Snippets

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	13:35:16	CREATE DATABASE TEACHER	1 row(s) affected	0.031 sec
2	13:35:28	USE TEACHER	0 row(s) affected	0.000 sec
3	13:35:37	CREATE TABLE teachers ( id INT PRIMARY KEY AUTO_INCREMENT, name VARCHAR(100), subject ... )	0 row(s) affected	0.047 sec

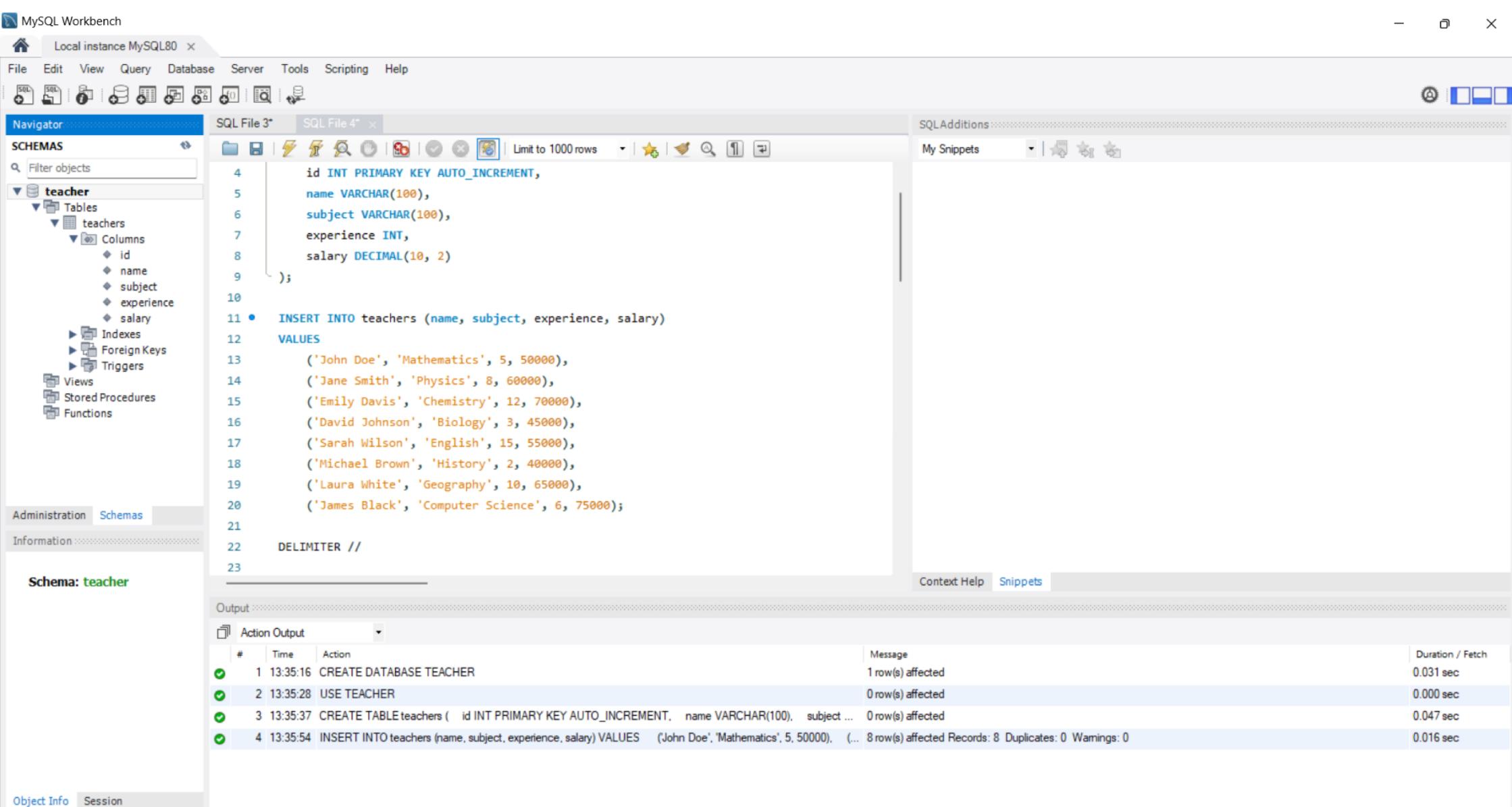
Object Info Session



Search



13:35 ENG IN 07-12-2024



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MySQL Workbench

Local instance MySQL80 ×

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Navigator

SCHEMAS

teacher

- Tables
  - teachers
    - id
    - name
    - subject
    - experience
    - salary
- Indexes
- Foreign Keys
- Triggers
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Schema: teacher

SQL File 3\* SQL File 4\*

```
19      ('Laura White', 'Geography', 10, 65000),
20      ('James Black', 'Computer Science', 6, 75000);
21
22  DELIMITER //
23
24 • CREATE TRIGGER before_insert_teacher
25    BEFORE INSERT ON teachers
26    FOR EACH ROW
27    BEGIN
28      IF NEW.salary < 0 THEN
29        SIGNAL SQLSTATE '45000'
30        SET MESSAGE_TEXT = 'salary cannot be negative';
31      END IF;
32    END //
33
34  DELIMITER ;
35 • CREATE TABLE teacher_log (
36    log_id INT PRIMARY KEY AUTO_INCREMENT,
37    teacher_id INT,
38    action VARCHAR(50),
```

SQL Additions: My Snippets

Context Help Snippets

Output:

Action Output	#	Time	Action	Message	Duration / Fetch
CREATE DATABASE TEACHER	1	13:35:16	CREATE DATABASE TEACHER	1 row(s) affected	0.031 sec
USE TEACHER	2	13:35:28	USE TEACHER	0 row(s) affected	0.000 sec
CREATE TABLEteachers ( id INT PRIMARY KEY AUTO_INCREMENT, name VARCHAR(100), subject ...	3	13:35:37	CREATE TABLEteachers ( id INT PRIMARY KEY AUTO_INCREMENT, name VARCHAR(100), subject ...	0 row(s) affected	0.047 sec
INSERT INTO teachers (name,subject,experience,salary) VALUES (John Doe,'Mathematics',5,50000), (...	4	13:35:54	INSERT INTO teachers (name,subject,experience,salary) VALUES (John Doe,'Mathematics',5,50000), (...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.016 sec
CREATE TRIGGER before_insert_teacher BEFORE INSERT ON teachers FOR EACH ROW BEGIN IF NEW.s...	5	13:36:05	CREATE TRIGGER before_insert_teacher BEFORE INSERT ON teachers FOR EACH ROW BEGIN IF NEW.s...	0 row(s) affected	0.016 sec

Object Info Session



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MySQL Workbench

Local instance MySQL80

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Navigator

SCHEMAS

teacher

- Tables
  - teacher\_log
  - Columns
    - log\_id
    - teacher\_id
    - action
    - timestamp
  - Indexes
  - Foreign Keys
  - Triggers
- teachers
- Columns
  - id
  - name
  - subject
  - experience
  - salary
- Indexes
- Foreign Keys

Administration Schemas

Information

Schema: teacher

SQL File 3\* SQL File 4\*

```
28 IF NEW.salary < 0 THEN
29     SIGNAL SQLSTATE '45000'
30     SET MESSAGE_TEXT = 'salary cannot be negative';
31 END IF;
32 END //
33
34 DELIMITER ;
35 • CREATE TABLE teacher_log (
36     log_id INT PRIMARY KEY AUTO_INCREMENT,
37     teacher_id INT,
38     action VARCHAR(50),
39     timestamp DATETIME
40 );
41
42 DELIMITER //
43
44 • CREATE TRIGGER after_insert_teacher
45     AFTER INSERT ON teachers
46     FOR EACH ROW
47     BEGIN
```

SQL Additions: My Snippets

Context Help Snippets

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
1	13:35:16	CREATE DATABASE TEACHER	1 row(s) affected	0.031 sec
2	13:35:28	USE TEACHER	0 row(s) affected	0.000 sec
3	13:35:37	CREATE TABLE teachers ( id INT PRIMARY KEY AUTO_INCREMENT, name VARCHAR(100), subject ... )	0 row(s) affected	0.047 sec
4	13:35:54	INSERT INTO teachers (name, subject, experience, salary) VALUES ('John Doe', 'Mathematics', 5, 50000), ('...', ...)	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.016 sec
5	13:36:05	CREATE TRIGGER before_insert_teacher BEFORE INSERT ON teachers FOR EACH ROW BEGIN IF NEW.s...	0 row(s) affected	0.016 sec
6	13:36:34	CREATE TABLE teacher_log ( log_id INT PRIMARY KEY AUTO_INCREMENT, teacher_id INT, action V... )	0 row(s) affected	0.047 sec

Object Info Session

13:36 ENG IN 07-12-2024

## MySQL Workbench

Local instance MySQL80

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## Navigator

SCHEMAS

Filter objects

teacher

Tables

teacher\_log

Columns

log\_id

teacher\_id

action

timestamp

Indexes

Foreign Keys

Triggers

teachers

Columns

id

name

subject

experience

salary

Indexes

Foreign Keys

Administration

Schemas

Information

Schema: teacher

SQL File 3\*

SQL File 4\*

```
37     teacher_id INT,  
38     action VARCHAR(50),  
39     timestamp DATETIME  
40 );  
41  
42 DELIMITER //  
43  
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  
52 DELIMITER ;  
53  
54 DELIMITER //  
55  
56 • CREATE TRIGGER before_delete_teacher
```

SQL Additions:

My Snippets

Context Help Snippets

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
2	13:35:28	USE TEACHER	0 row(s) affected	0.000 sec
3	13:35:37	CREATE TABLE teachers ( id INT PRIMARY KEY AUTO_INCREMENT, name VARCHAR(100), subject... )	0 row(s) affected	0.047 sec
4	13:35:54	INSERT INTO teachers (name, subject, experience, salary) VALUES ('John Doe', 'Mathematics', 5, 50000), ...	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.016 sec
5	13:36:05	CREATE TRIGGER before_insert_teacher BEFORE INSERT ON teachers FOR EACH ROW BEGIN IF NE...	0 row(s) affected	0.016 sec
6	13:36:34	CREATE TABLE teacher_log ( log_id INT PRIMARY KEY AUTO_INCREMENT, teacher_id INT, action ... )	0 row(s) affected	0.047 sec
7	13:36:56	CREATE TRIGGER after_insert_teacher AFTER INSERT ON teachers FOR EACH ROW BEGIN INSERT IN...	0 row(s) affected	0.032 sec

Object Info Session



Search



ENG IN 07-12-2024 13:36

## MySQL Workbench

Local instance MySQL80

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## Navigator

SCHEMAS

Filter objects

**teacher**

- Tables
  - teacher\_log
    - Columns
      - log\_id
      - teacher\_id
      - action
      - timestamp
  - Indexes
  - Foreign Keys
  - Triggers
- teachers
  - Columns
    - id
    - name
    - subject
    - experience
    - salary
  - Indexes
  - Foreign Keys

Administration Schemas

Information

Schema: teacher

SQL File 3\*

SQL File 4\*

```

46  FOR EACH ROW
47  BEGIN
48      INSERT INTO teacher_log (teacher_id, action, timestamp)
49      VALUES (NEW.id, 'INSERT', NOW());
50  END //
51
52  DELIMITER ;
53
54  DELIMITER //
55
56 • CREATE TRIGGER before_delete_teacher
57  BEFORE DELETE ON teachers
58  FOR EACH ROW
59  BEGIN
60      IF OLD.experience > 10 THEN
61          SIGNAL SQLSTATE '45000'
62          SET MESSAGE_TEXT = 'Cannot delete teacher with more than 10 years of experience';
63      END IF;
64  END //
65

```

SQL Additions

My Snippets

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	13:35:37	CREATE TABLE teachers ( id INT PRIMARY KEY AUTO_INCREMENT )	INSERT INTO teachers (name, subject, experience, salary) VALUES	0.047 sec
4	13:35:54	INSERT INTO teachers (name, subject, experience, salary) VALUES	(John Doe, 'Mathematics', 5, 50000), (Jane Smith, 'Physics', 8, 60000), (Emily Davis, 'Chemistry', 12, 70000), (David Johnson, 'Biology', 3, 45000), (Sarah Wilson, 'English', 15, 55000), (Michael Brown, 'History', 2, 40000), (Laura White, 'Geography', 10, 65000), (James Black, 'Computer Science', 6, 75000)	0.016 sec
5	13:36:05	CREATE TRIGGER before_insert_teacher BEFORE INSERT ON teacher		0.016 sec
6	13:36:34	CREATE TABLE teacher_log ( log_id INT PRIMARY KEY AUTO_INCREMENT )		0.047 sec
7	13:36:56	CREATE TRIGGER after_insert_teacher AFTER INSERT ON teacher		0.032 sec
8	13:37:09	CREATE TRIGGER before_delete_teacher BEFORE DELETE ON teachers		0.031 sec

Object Info Session



Search



13:37 ENG IN 07-12-2024

## MySQL Workbench

File Edit View Query Database Server Tools Scripting Help



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Navigator:

SCHEMAS

Filter objects

teacher

Tables

teacher\_log

Columns

log\_id

teacher\_id

action

timestamp

Indexes

Foreign Keys

Triggers

teachers

Columns

id

name

subject

experience

salary

Indexes

Foreign Keys

Administration

Schemas

Information

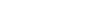
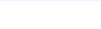
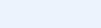
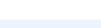
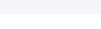
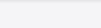
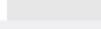
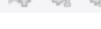
Schema: teacher

SQL File 3\* SQL File 4\*

```
61      SIGNAL SQLSTATE '45000'
62      SET MESSAGE_TEXT = 'Cannot delete teacher with more than 10 years of experience';
63  END IF;
64 END //
65
66 DELIMITER ;
67
68 DELIMITER //
69
70 • CREATE TRIGGER after_delete_teacher
71 AFTER DELETE ON teachers
72 FOR EACH ROW
73 BEGIN
74     INSERT INTO teacher_log (teacher_id, action, timestamp)
75     VALUES (OLD.id, 'DELETE', NOW());
76 END //
77
78 DELIMITER ;
```

SQL Additions:

My Snippets





## Navigator

## SCHEMAS

Filter objects

- teacher
  - Tables
    - teacher\_log
      - Columns
        - log\_id
        - teacher\_id
        - action
        - timestamp
    - teachers
      - Columns
        - id
        - name
        - subject
        - experience
        - salary

Administration Schemas

Information

Schema: teacher

## SQL File 3\*

```
63      END IF;
64  END // 
65
66  DELIMITER ;
67
68  DELIMITER //
69
70 • CREATE TRIGGER after_delete_teacher
71  AFTER DELETE ON teachers
72  FOR EACH ROW
73  BEGIN
74      INSERT INTO teacher_log (teacher_id, action, timestamp)
75      VALUES (OLD.id, 'DELETE', NOW());
76  END //
77
78  DELIMITER ;
79
80
81
```

## SQL Additions:

My Snippets



Context Help Snippets

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
4	13:35:54	INSERT INTO teachers (name, subject, experience, salary) VALUES ('John Doe', 'Mathematics', 5, 50000), ('Jane Smith', 'Science', 6, 60000)	8 row(s) affected Records: 8 Duplicates: 0 Warnings: 0	0.016 sec
5	13:36:05	CREATE TRIGGER before_insert_teacher BEFORE INSERT ON teachers FOR EACH ROW BEGIN IF NEW.id > 10 THEN SIGNAL SQLWARNING SET MESSAGE_TEXT = 'Trigger fired'; END IF;	0 row(s) affected	0.016 sec
6	13:36:34	CREATE TABLE teacher_log (log_id INT PRIMARY KEY AUTO_INCREMENT, teacher_id INT, action VARCHAR(255), timestamp DATETIME)	0 row(s) affected	0.047 sec
7	13:36:56	CREATE TRIGGER after_insert_teacher AFTER INSERT ON teachers FOR EACH ROW BEGIN INSERT INTO teacher_log (teacher_id, action, timestamp) VALUES (NEW.id, 'INSERT', NOW()); END IF;	0 row(s) affected	0.032 sec
8	13:37:09	CREATE TRIGGER before_delete_teacher BEFORE DELETE ON teachers FOR EACH ROW BEGIN IF OLD.id > 10 THEN SIGNAL SQLWARNING SET MESSAGE_TEXT = 'Trigger fired'; END IF;	0 row(s) affected	0.031 sec
9	13:37:23	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 IF;	0 row(s) affected	0.031 sec

Object Info Session



Search

ENG  
IN13:37  
07-12-2024