1. **Create a TRIGGER BEFORE/AFTER DELETE on employee table FOR EACH ROW/statement.**

* **BEFORE DELETE**: The trigger will execute before the delete occurs.
* **AFTER DELETE**: The trigger will execute after the delete occurs.
* **FOR EACH ROW**: Ensures that the trigger is executed for each row affected by the DELETE statement.

**BEFORE UPDATE:**

**mysql>**

CREATE TABLE employees (

employee\_id INT PRIMARY KEY,

first\_name VARCHAR(100),

last\_name VARCHAR(100),

salary DECIMAL(10, 2),

department\_id INT

);

CREATE TABLE employee\_deletions (

deletion\_id INT AUTO\_INCREMENT PRIMARY KEY,

employee\_id INT,

first\_name VARCHAR(100),

last\_name VARCHAR(100),

salary DECIMAL(10, 2),

department\_id INT,

deletion\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

**mysql>**

INSERT INTO employees (employee\_id, first\_name, last\_name, salary, department\_id)

VALUES

(1, 'John', 'Doe', 50000, 10),

(2, 'Jane', 'Smith', 55000, 10),

(3, 'Jim', 'Brown', 60000, 20),

(4, 'Jack', 'Davis', 45000, 10);

**mysql>**

SELECT \* FROM employees;

**mysql>**

DELIMITER $$

CREATE TRIGGER before\_employee\_delete

BEFORE DELETE ON employees

FOR EACH ROW

BEGIN

-- Log the deletion of the employee in the employee\_deletions table

INSERT INTO employee\_deletions (employee\_id, first\_name, last\_name, salary, department\_id)

VALUES (OLD.employee\_id, OLD.first\_name, OLD.last\_name, OLD.salary, OLD.department\_id);

END $$

DELIMITER ;

**mysql>**

DELETE FROM employees WHERE employee\_id = 2;

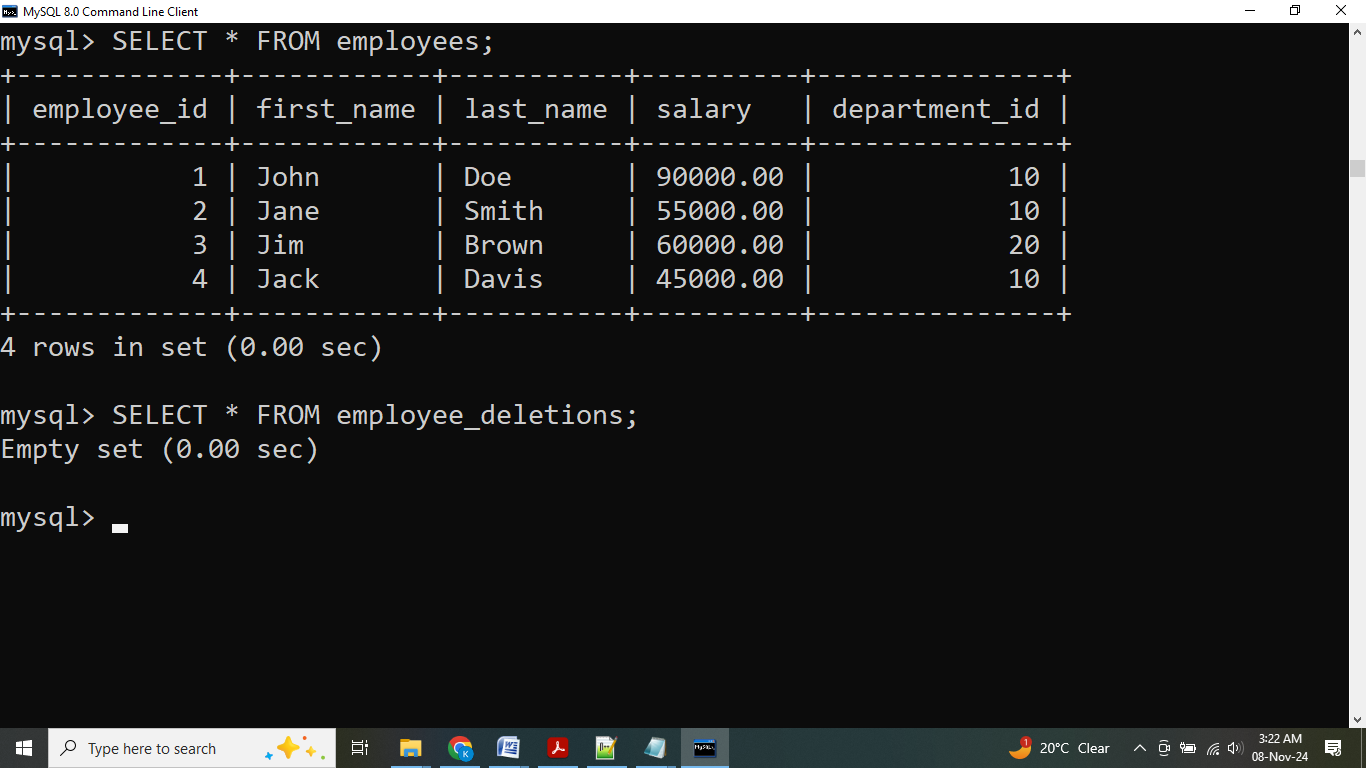
**mysql>**

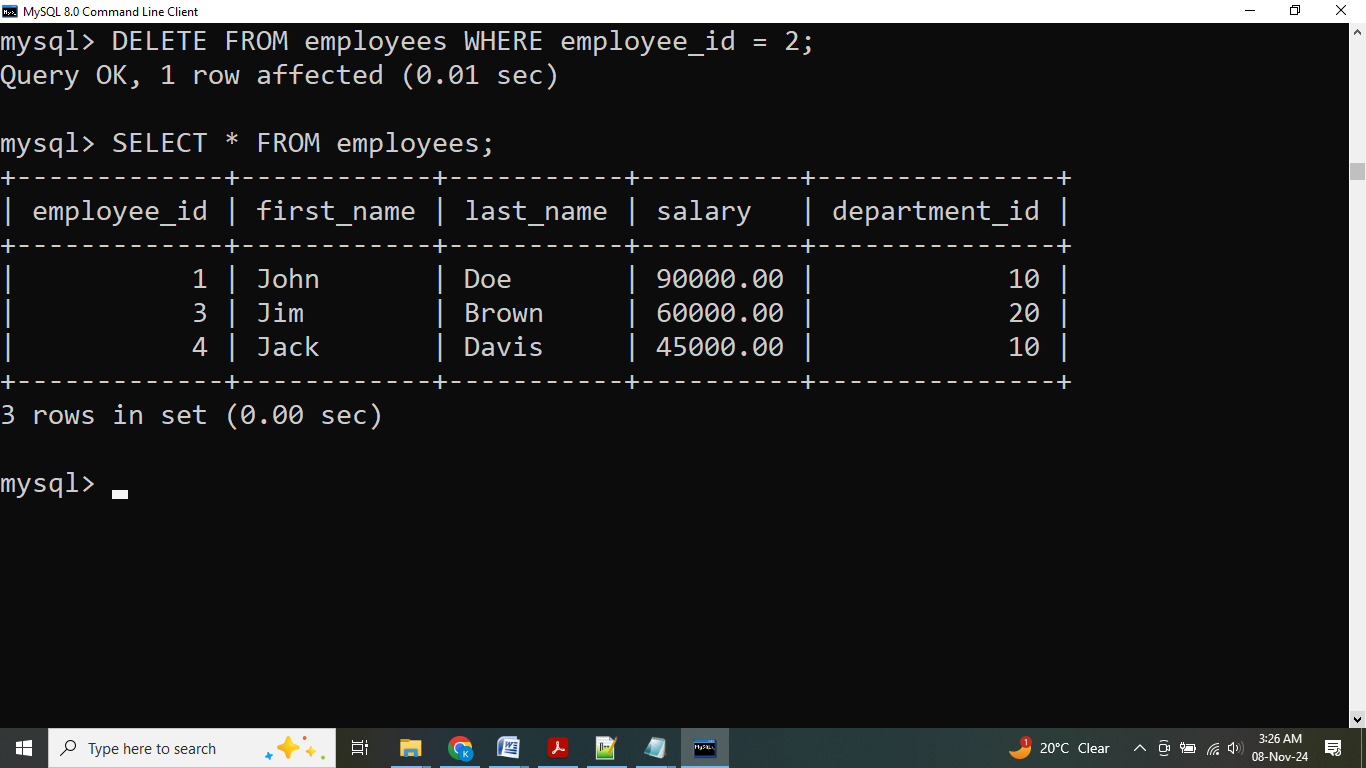
SELECT \* FROM employees;

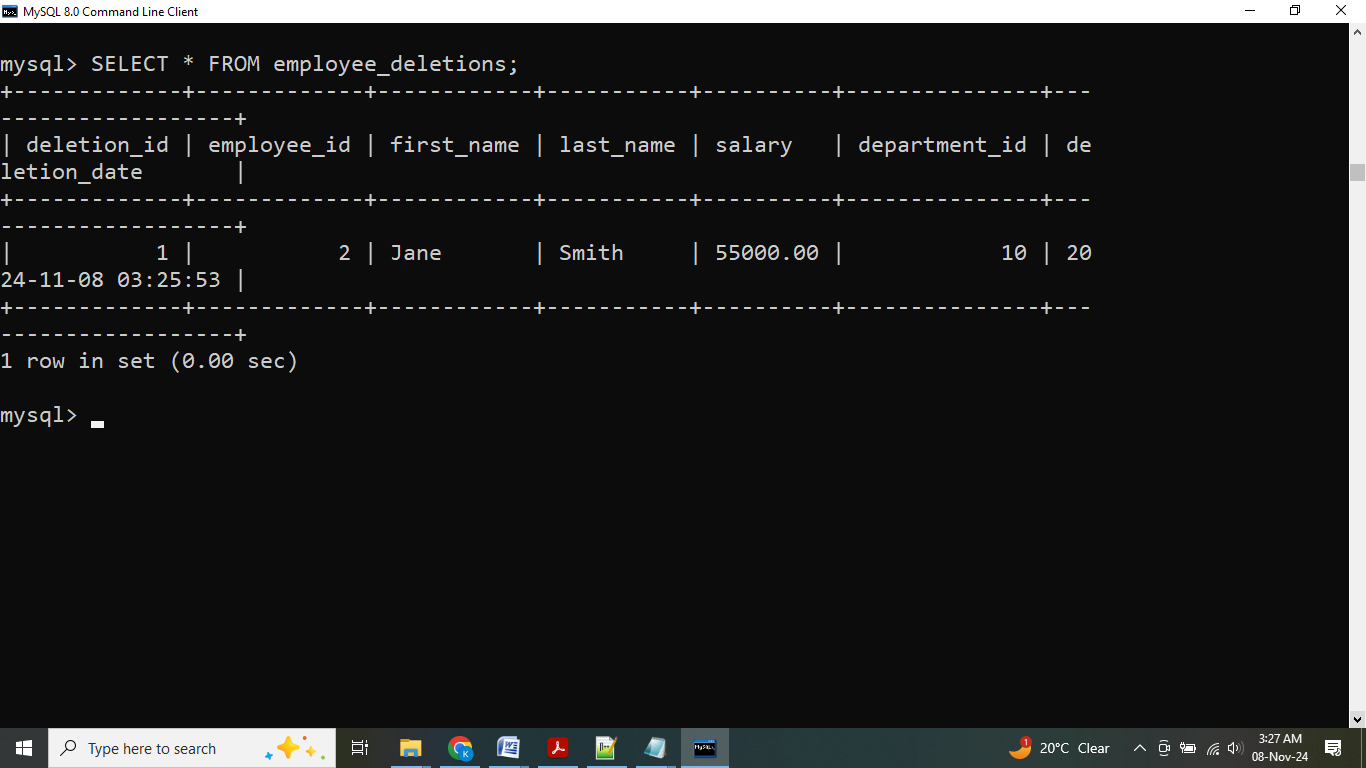
**mysql>**

SELECT \* FROM employee\_deletions;

**OUTPUT:**

****





**AFTER DELETE**:

**mysql>**

DELIMITER $$

CREATE TRIGGER after\_employee\_delete

AFTER DELETE ON employees

FOR EACH ROW

BEGIN

-- Log the deletion of the employee in the employee\_deletions table

INSERT INTO employee\_deletions (

employee\_id, first\_name, last\_name, salary, department\_id)

VALUES (OLD.employee\_id, OLD.first\_name, OLD.last\_name, OLD.salary, OLD.department\_id);

END $$

DELIMITER ;

**mysql>**

DELETE FROM employees WHERE employee\_id = 3;

**mysql>**

SELECT \* FROM employees;

**mysql>**

SELECT \* FROM employee\_deletions;

**OUTPUT:**

