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

* **BEFORE INSERT**: The trigger will execute before the insert occurs.
* **AFTER INSERT**: The trigger will execute after the insert occurs.
* **FOR EACH ROW**: Ensures that the trigger is executed for each row affected by the INSERT 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\_adding (

audit\_id INT AUTO\_INCREMENT PRIMARY KEY, employee\_id INT,

action VARCHAR(100),

action\_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\_insert

BEFORE INSERT ON employees

FOR EACH ROW

BEGIN

-- Log the insertion into the employee\_adding table

INSERT INTO employee\_adding (employee\_id, action)

VALUES (NEW.employee\_id, 'Employee Added');

END $$

DELIMITER ;

**mysql>**

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

VALUES (5,'Alice', 'Johnson', 55000, 10);

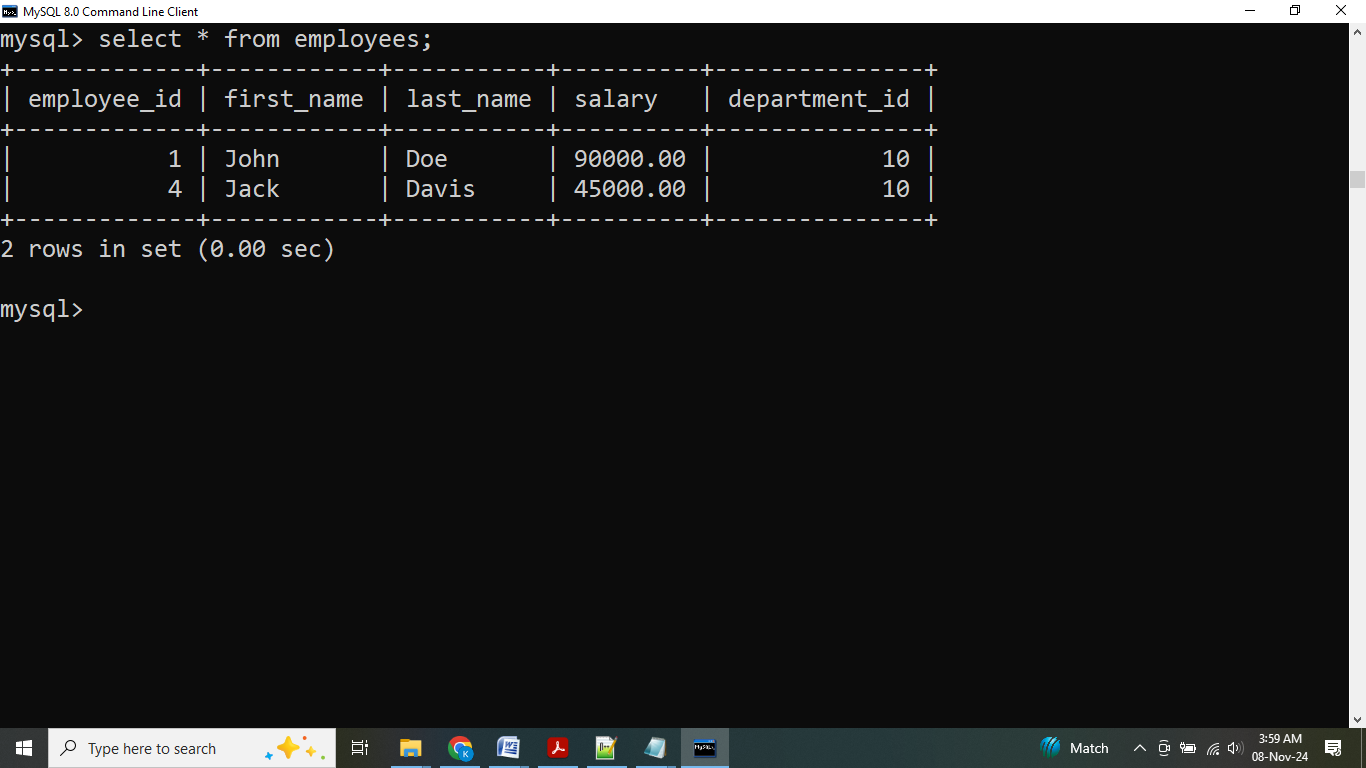
**mysql>**

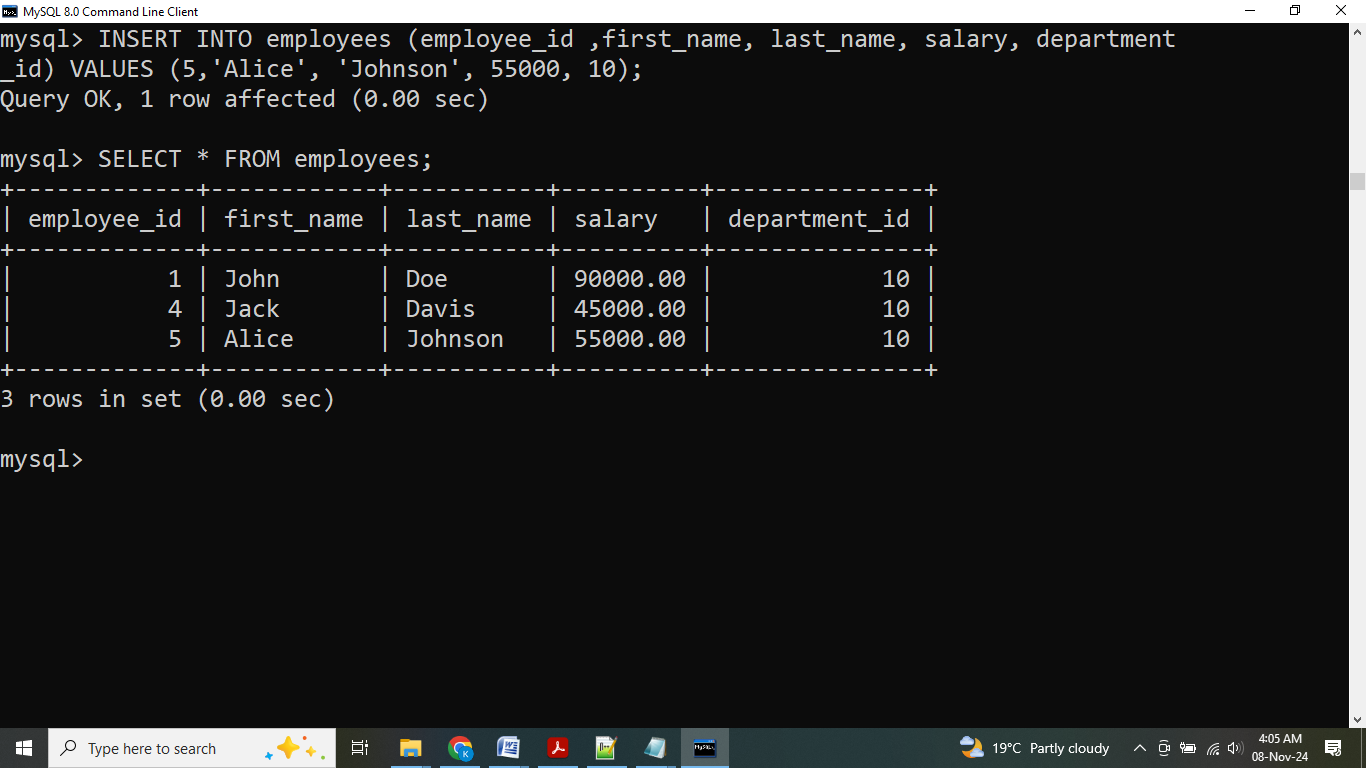
SELECT \* FROM employees;

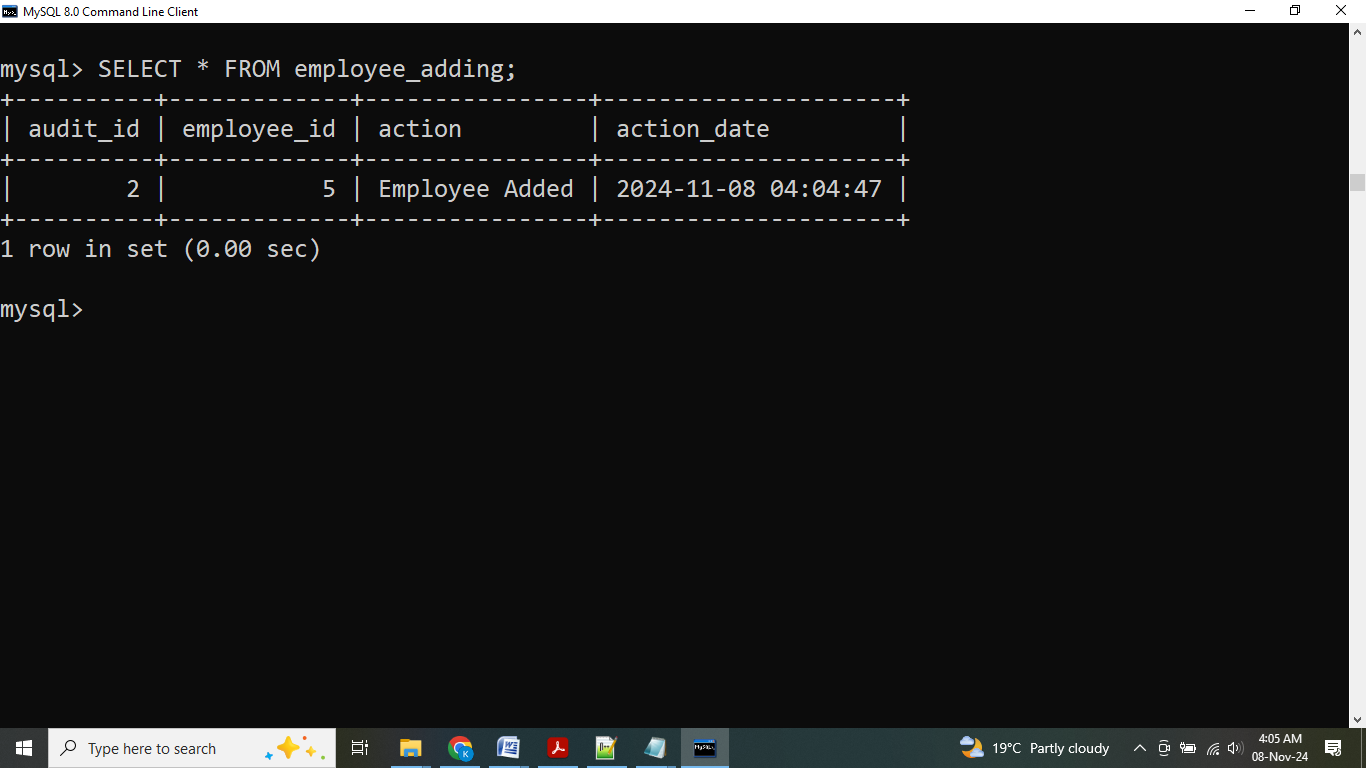
**mysql>**

SELECT \* FROM employee\_adding;

**OUTPUT:**

****





**AFTER INSERT**:

**mysql>**

DELIMITER $$

CREATE TRIGGER after\_employee\_insert

AFTER INSERT ON employees

FOR EACH ROW

BEGIN

-- Log the insertion into the employee\_adding table

INSERT INTO employee\_adding (employee\_id, action)

VALUES (NEW.employee\_id, 'Employee Added');

END $$

DELIMITER ;

**mysql>**

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

VALUES (2, 'john', 'doe', 50000, 10);

**mysql>**

SELECT \* FROM employees;

**mysql>**

SELECT \* FROM employee\_adding;

**OUTPUT:**

