

P10

Problem Statement:

Trigger: Emp(emp_no, emp_name, emp_salary). Write AFTER triggers for INSERT, UPDATE, DELETE to track when salary tried to be inserted/updated/deleted is less than 50000. Store new values in Tracking(emp_no, emp_salary).

Code:

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-- P10: MySQL triggers to track salary < 50000
CREATE TABLE Emp (
    emp_no INT PRIMARY KEY,
    emp_name VARCHAR(100),
    emp_salary DECIMAL(12,2)
);

CREATE TABLE Tracking (
    id INT AUTO_INCREMENT PRIMARY KEY,
    emp_no INT,
    emp_salary DECIMAL(12,2),
    action_type VARCHAR(10),
    action_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);

DELIMITER $$
CREATE TRIGGER trg_emp_after_insert
AFTER INSERT ON Emp
FOR EACH ROW
BEGIN
    IF NEW.emp_salary < 50000 THEN
        INSERT INTO Tracking(emp_no, emp_salary, action_type) VALUES (NEW.emp_no, NEW.emp_salary,
'INSERT');
    END IF;
END$$
DELIMITER ;

DELIMITER $$
CREATE TRIGGER trg_emp_after_update
AFTER UPDATE ON Emp
FOR EACH ROW
BEGIN
    IF NEW.emp_salary < 50000 THEN
        INSERT INTO Tracking(emp_no, emp_salary, action_type) VALUES (NEW.emp_no, NEW.emp_salary,
'UPDATE');
    END IF;
END$$
DELIMITER ;

DELIMITER $$
CREATE TRIGGER trg_emp_after_delete
AFTER DELETE ON Emp
FOR EACH ROW
BEGIN
    IF OLD.emp_salary < 50000 THEN
        INSERT INTO Tracking(emp_no, emp_salary, action_type) VALUES (OLD.emp_no, OLD.emp_salary,
'DELETE');
    END IF;
END$$
```

DELIMITER ;