

Assessment – SQL

Q. CREATE TABLE employees (

**Employee_id INT AUTO_INCREMENT PRIMARY KEY, name
VARCHAR (100),**

**position VARCHAR (100), salary DECIMAL (10, 2), hire_date
DATE**

);

CREATE TABLE employee_audit (

audit_id INT AUTO_INCREMENT PRIMARY KEY,

employee_id INT,

name VARCHAR

(100),

**position VARCHAR (100), salary DECIMAL (10, 2), hire_date
DATE,**

action_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP

);

**INSERT INTO employees (name, position, salary, hire_date)
VALUES ('John Doe',**

'Software Engineer', 80000.00, '2022-01-15'),

('Jane Smith', 'Project Manager', 90000.00, '2021-05-22'),

('Alice Johnson', 'UX Designer', 75000.00, '2023-03-01');

create a Trigger that will insert a record into the employee_audit table every time a new employee is added to the employee's table:

We have an employee's table, and we want to create a stored procedure to add a

new employee and automatically log this action in an employee_audit table.

A- Table for input data in employee table:

		Employee_id	name	position	salary	hire_date
<input type="checkbox"/>	 Edit  Copy  Delete	1	John Doe	Software Engineer	80000.00	2022-01-15
<input type="checkbox"/>	 Edit  Copy  Delete	2	Jane Smith	Project Manager	90000.00	2021-05-22
<input type="checkbox"/>	 Edit  Copy  Delete	3	Alice Johnson	UX Designer	75000.00	2023-03-01

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Query for creating trigger for inserting record into the employee_audit table every time a new employee is added to the employee's table:

DELIMITER \$\$

CREATE TRIGGER after_employee_insert

AFTER INSERT ON employees

FOR EACH ROW

BEGIN

INSERT INTO employee_audit (employee_id, name, position, salary, hire_date)

VALUES (NEW.Employee_id, NEW.name, NEW.position, NEW.salary,
NEW.hire_date);

END\$\$

DELIMITER ;

After creating trigger final output:




INSERT INTO employees (name, position, salary, hire_date)

VALUES ('Michael Brown', 'Data Scientist', 95000.00, '2024-08-24');

	Employee_id	name	position	salary	hire_date
<input type="checkbox"/> Edit Copy Delete	1	John Doe	Software Engineer	80000.00	2022-01-15
<input type="checkbox"/> Edit Copy Delete	2	Jane Smith	Project Manager	90000.00	2021-05-22
<input type="checkbox"/> Edit Copy Delete	3	Alice Johnson	UX Designer	75000.00	2023-03-01
<input type="checkbox"/> Edit Copy Delete	4	Michael Brown	Data Scientist	95000.00	2024-08-24

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In employee_audit table:

			audit_id	employee_id	name	position	salary	hire_date	action_date
	 Edit	 Copy	 Delete	1	4	Michael Brown	Data Scientist	95000.00	2024-08-24 2024-08-24 16:36:09