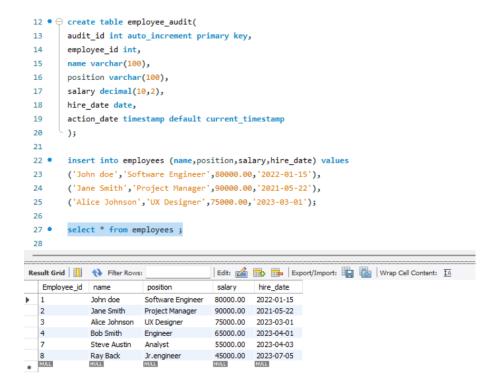# SQL Assessment Module 4

❖ 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.

→ **Table**

```sql
12  create table employee_audit(
13      audit_id int auto_increment primary key,
14      employee_id int,
15      name varchar(100),
16      position varchar(100),
17      salary decimal(10,2),
18      hire_date date,
19      action_date timestamp default current_timestamp
20  );
21
22  insert into employees (name,position,salary,hire_date) values
23      ('John doe','Software Engineer',80000.00,'2022-01-15'),
24      ('Jane Smith','Project Manager',90000.00,'2021-05-22'),
25      ('Alice Johnson','UX Designer',75000.00,'2023-03-01');
26
27  select * from employees ;
28
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

Employee_id	name	position	salary	hire_date
1	John doe	Software Engineer	80000.00	2022-01-15
2	Jane Smith	Project Manager	90000.00	2021-05-22
3	Alice Johnson	UX Designer	75000.00	2023-03-01
4	Bob Smith	Engineer	65000.00	2023-04-01
7	Steve Austin	Analyst	55000.00	2023-04-03
8	Ray Back	Jr.engineer	45000.00	2023-07-05
NULL	NULL	NULL	NULL	NULL

→ **Store Procedure**

```sql
29      -- Store procedure
30      delimiter //
31
32  create procedure add_emp(
33          in e_name varchar(100),
34          in e_position varchar (100),
35          in e_salary decimal(10,2),
36          in e_hire_date date )
37  begin
38          insert into employees(name,position,salary,hire_date)
39          values(e_name,e_position,e_salary,e_hire_date);
40  end //
41
42      delimiter;
```

→ **Trigger**

```
44    -- Trigger
45    delimiter //
46
47  ● create trigger after_insert
48    after insert on employees
49    for each row
50  ⊖ begin
51        insert into employee_audit(employee_id,name,position,salary,hire_date)
52        values(new.employee_id,new.name,new.position,new.salary,new.hire_date);
53    end //
54    delimiter ;
55
56
```

→ **After call procedure**

```
57
58  ● call add_emp('Steve Austin','Analyst',55000.00,'2023-04-03');
59  ● call add_emp('Ray Back','Jr.engineer',45000.00,'2023-07-05');
60
61  ● select * from employee_audit;
```

audit_id	employee_id	name	position	salary	hire_date	action_date
1	7	Steve Austin	Analyst	55000.00	2023-04-03	2025-06-21 22:36:01
2	8	Ray Back	Jr.engineer	45000.00	2023-07-05	2025-06-21 22:37:14
NULL	NULL	NULL	NULL	NULL	NULL	NULL