

Task 8: Stored Procedures and Functions

Objective: Learn reusable SQL blocks

Tools : DB Browser for SQLite / MySQL Workbench

Deliverables: At least one stored procedure and one function

-- Create a sample table

```
CREATE TABLE employees (  
    emp_id INT PRIMARY KEY,  
    emp_name VARCHAR(50),  
    salary DECIMAL(10,2)  
);
```

INSERT INTO employees VALUES

(1, 'John Doe', 50000),

(2, 'Jane Smith', 60000),

(3, 'Sam Wilson', 55000);

Select * From employees;

emp_id	emp_name	salary
1	John Doe	50000
2	Jane Smith	60000
3	Sam Wilson	55000

-- Function to calculate yearly bonus (10% of salary)

DELIMITER //

CREATE FUNCTION get_bonus(empSalary DECIMAL(10,2)) RETURNS DECIMAL(10,2)

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BEGIN

 RETURN empSalary * 0.10;

END//

DELIMITER ;

-- Stored procedure to display employee details with bonus

DELIMITER //

CREATE PROCEDURE show_emp_bonus()

BEGIN

 SELECT emp_id, emp_name, salary, get_bonus(salary) AS bonus

 FROM employees;

END//

DELIMITER ;

-- Call the stored procedure

CALL show_emp_bonus();