

Exercise 1: Create a Stored Procedure

Goal:

Create a stored procedure to retrieve employee details by department.

Steps:

1. Define the stored procedure with a parameter for DepartmentID.

Code:

```
DELIMITER $$
CREATE PROCEDURE sp_GetEmployeesByDepartment (IN dept_id
INT)
BEGIN
    SELECT
        EmployeeID,
        FirstName,
        LastName,
        DepartmentID,
        Salary,
        JoinDate
    FROM Employees
    WHERE DepartmentID = dept_id;
END $$
DELIMITER ;
```

2. Write the SQL query to select employee details based on the DepartmentID.

Code:

```
SELECT
    EmployeeID,
    FirstName,
    LastName,
    DepartmentID,
    Salary,
    JoinDate
FROM Employees
WHERE DepartmentID = 3;
CALL sp_GetEmployeesByDepartment(3);
```

Result Grid		Filter Rows:		Export:		Wrap Cell Content:	
	EmployeeID	FirstName	LastName	DepartmentID	Salary	JoinDate	
▶	3	Michael	Johnson	3	7000.00	2018-07-30	

3. Create a stored procedure named `sp_InsertEmployee` with the following code:

```
CREATE PROCEDURE sp_InsertEmployee  
@FirstName VARCHAR(50),  
@LastName VARCHAR(50),  
@DepartmentID INT,  
@Salary DECIMAL(10,2),  
@JoinDate DATE  
AS  
BEGIN  
INSERT INTO Employees (FirstName, LastName, DepartmentID,  
Salary, JoinDate) VALUES (@FirstName, @LastName,  
@DepartmentID, @Salary, @JoinDate);  
END;  
Code:  
DELIMITER $$  
CREATE PROCEDURE sp_InsertEmployee (  
    IN FirstName VARCHAR(50),  
    IN LastName VARCHAR(50),  
    IN DepartmentID INT,  
    IN Salary DECIMAL(10,2),  
    IN JoinDate DATE  
)  
BEGIN  
    INSERT INTO Employees (FirstName, LastName, DepartmentID,  
Salary, JoinDate)  
        VALUES (FirstName, LastName, DepartmentID, Salary, JoinDate);  
END $$  
DELIMITER ;
```