SQL

Stored Procedures.

Speed, Security & Scalability.

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What is a Stored Procedure?

A **Stored Procedure** is a saved SQL code that can be executed whenever needed.

You write once → reuse anytime.

Think of it as a function in SQL .

Why Companies Use Stored Procedures.

✓ **Performance Boost** — Precompiled execution reduces run time

✓ **Security** — Limits direct access to tables

✓ **Code Reusability** — Write once, call multiple times

✓ **Better Maintenance** — Centralized logic = easy updates

✓ **Less Network Load** — Executes directly on server

Where are Stored Procedures Used?

- **Enterprise Apps**
- **Automated Reports**
- **Repetitive Tasks**
- **Role-based Secure Data Access**
- **Complex Business Logic**

Example :

Create a procedure to get **employee data** by department

```sql
CREATE PROCEDURE GetEmployeesByDept
    @DeptName VARCHAR(50)
AS
BEGIN
    SELECT EmployeeName, Department,
Salary
    FROM Employees
    WHERE Department = @DeptName;
END;
```

How to Execute It?

Just call the **procedure** like this.

```
EXEC GetEmployeesByDept @DeptName =
'HR';
```

Summary

Stored Procedures help:

- Improve performance
- Protect data
- Reuse common logic
- Automate processes

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