

# Employee Management System (Database Design - SQL)

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## Introduction

The **Employee Management System** is a **relational database system** designed to efficiently manage employee records. It incorporates advanced SQL concepts like **stored procedures, views, and indexing** to optimize database operations.

## Problem Statement

The system should:

**Store Employee Details** (Name, ID, Department, Salary).

**Ensure Data Integrity** using Foreign Keys.

**Allow Efficient Queries** for:

- Listing Employees with Departments.
- Calculating Employee Salaries.
- Identifying the Department with the **Highest Average Salary**.  
**Implement Stored Procedures** for adding employees, updating salaries, and calculating payroll.  
**Create SQL Views** for quick data retrieval.

## Database Schema

### Tables & Relationships

1. **Departments Table** – Stores department details.
2. **Employees Table** – Stores employee records, linked to Departments.
3. **Salaries Table** – Stores salary details, linked to Employees.

## Conclusion

The **Employee Management System** efficiently handles employee data, payroll calculations, and departmental salary insights. By using **stored procedures and views**, this system ensures **fast retrieval and secure modifications**.