

Employee Management System

Zerubbabel Ashenafi Jonathan
Bell, Ahmed Cisse, Myles Miller





ABOUT

An employee management system using MySQL that allows a hypothetical employee to access data about themselves or others in the database, and also allows an administrator to modify the database in a user-friendly way.

Tech stack:

- Java (Command Line Interface)
- MySQL
- JDBC(Java Database Connectivity)



ABOUT DATABASE

Schema: employeeData (MySQL)

Core tables: employees (Fname, Lname, email, HireDate, Salary, SSN), with linked address and demographics

Relationships: employee_division → division.ID/Name; employee_job_titles → job_titles.job_title_id

Payroll: payroll keyed by empid (earnings/taxes per pay date)

Auth: user_accounts (username, password, role, empid FK for employees)



WHAT THE ADMIN CAN DO

- Login as admin (role stored in session)
- Search any employee (ID/SSN/DOB), view full record, edit/update info
- Add new employee (validates unique empid/SSN; inserts linked tables)
- Remove/terminate employees
- Update salaries of employees within a certain range
- Reports: monthly pay by job title/division; hires within date range; view any pay history



WHAT THE USER CAN DO

- Login as employee (role stored with empid)
- View own profile (search restricted to self)
- View own pay history (sorted; “No pay history” message if empty)
- CAN NOT add/update/remove or reports; admin-only actions hidden from employee menu