# Hands-on 3: Creating Payroll Tables and Bean Mapping

## Step 1: Create Tables using SQL Script

Prerequisites:

- MySQL installed and running

- payroll.sql located at: D:\spring-data-jpa-files\payroll.sql

Steps:

1. Open MySQL Command Line Client.

2. Run the following command:

mysql> source D:\spring-data-jpa-files\payroll.sql;

This script will create the following tables:

- employee

- department

- skill

- employee\_skill (for many-to-many)

## Step 2: Define Bean Mappings

Project: Open `orm-learn` project in Eclipse.

Package for Models: com.cognizant.orm\_learn.model

### 1. Employee.java

@Entity  
@Table(name = "employee")  
public class Employee {  
 @Id  
 @GeneratedValue(strategy = GenerationType.IDENTITY)  
 private int id;  
  
 @Column(name = "name")  
 private String name;  
  
 @Column(name = "salary")  
 private double salary;  
  
 @Column(name = "permanent")  
 private boolean permanent;  
  
 @Column(name = "date\_of\_birth")  
 private Date dateOfBirth;  
  
 // Getters, Setters, toString()  
}

### 2. Department.java

@Entity  
@Table(name = "department")  
public class Department {  
 @Id  
 @GeneratedValue(strategy = GenerationType.IDENTITY)  
 private int id;  
  
 @Column(name = "name")  
 private String name;  
  
 // Getters, Setters, toString()  
}

### 3. Skill.java

@Entity  
@Table(name = "skill")  
public class Skill {  
 @Id  
 @GeneratedValue(strategy = GenerationType.IDENTITY)  
 private int id;  
  
 @Column(name = "name")  
 private String name;  
  
 // Getters, Setters, toString()  
}

## Step 3: Create Repository Interfaces

Package: com.cognizant.orm\_learn.repository

### 1. EmployeeRepository.java

public interface EmployeeRepository extends JpaRepository<Employee, Integer> {  
}

### 2. DepartmentRepository.java

public interface DepartmentRepository extends JpaRepository<Department, Integer> {  
}

### 3. SkillRepository.java

public interface SkillRepository extends JpaRepository<Skill, Integer> {  
}