ASSIGNMENT STATEMENT

Create an Employee management System with the following features : -

1. Implement CRUD for employees.

2. Create multiple users with different user roles (eg. Manager, Admin, Associate)

// create entity for user

3. Create an API for employee overtime calculation. (Overtime would be the excess hours that an employee has   worked apart from his daily work hours which would be 8 hours)

4. Overtime calculation only display for Manager and Admin

Endpoint required for CRUD operation.

1. POST : /employee -> For adding new employee Data.

2. PUT : /employee -> For updating existing employee Data.

3. DELETE : /employee /{employeeId} -> For Deleting one employee Data.

4. GET : /employee -> For Getting all employee Data.

5. GET : /employee /{fname} -> To Search employee data based on First Name.

6.GET: /employees/countExtraWorkHours/{empId} -> Only managers and Admin can get this view.

Note: You should use SpringBoot, Hibernate. You can use any SQL database. You should create one Controller class. You should create one Service Interface and its implementation. You should create one Repository Class. Put proper validation on fields and handle proper Exception.

ASSUMPTIONS:

ROLES / DATABASE MAPPED VALUE(emp_role)

1)ADMIN   1

2)MANAGER   2

3)EMPLOYEE   3

DATABASE SAMPLE VIEW:

Result Set Filter: [   ] ↻ | Edit: 🖊 📇 📇 | Export/Import: 📇 📇 | Wrap Cell Content: ᵀA

id	first_name	last_name	email	work_hours	emp_role	reporter
1	Ashish	Rao	Rao@fun.com	7	1	1
2	Pravin	Kumar	Kumar@fun.com	9	2	1
3	Neha	Kumari	Kumari@fun.com	9.5	3	2
4	priya	prakash	priya@fun.com	7.5	3	2
5	Mahesh	prakash	Mahesh@fun.com	8.5	2	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

- Reporter field is to tell the reporting person of employee.
- When employee hits this API :-> /api/employees/countExtraWorkHours/{empId},he can see overtime of all the employees who are reporting to him.
- EX:

GET ⌄   http://localhost:8081/api/employees/countExtraWorkHours/1   Params   **Send** ⌄

Pretty   Raw   Preview   JSON ⌄ ⇥

```
1 ▾ {
2       "Employee [id=1, firstName=Ashish, lastName=Rao, email=Rao@fun.com, workHours=7.0, role=1, reporter=1]": 0,
3       "Employee [id=2, firstName=Pravin, lastName=Kumar, email=Kumar@fun.com, workHours=9.0, role=2, reporter=1]": 1,
4       "Employee [id=5, firstName=Mahesh, lastName=prakash, email=Mahesh@fun.com, workHours=8.5, role=2, reporter=1]": 0.5
5 }
```