

Part-1

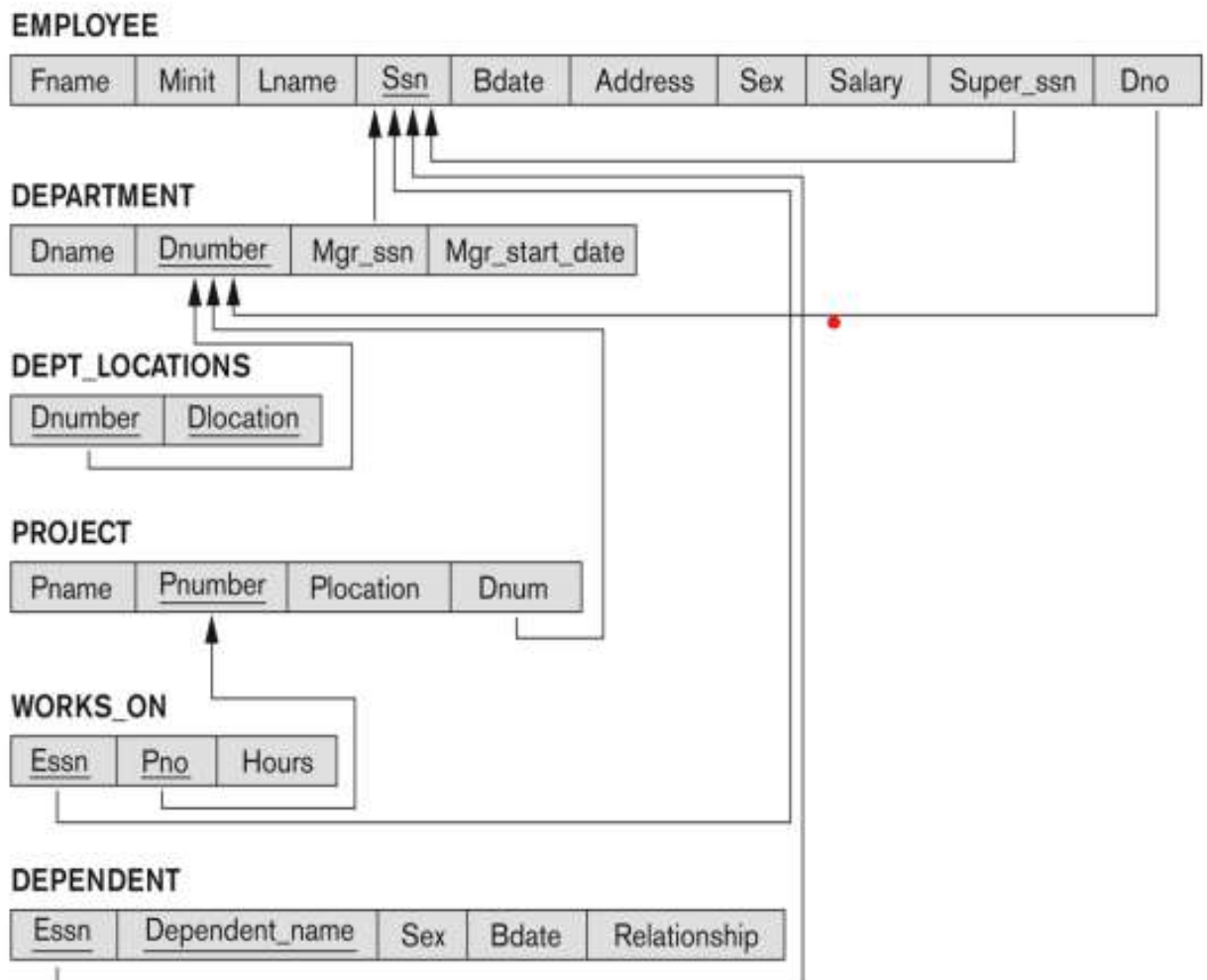
1. Create a Tomcat Server and make a connection with database using the following credentials.

- Create and read all secret keys from yaml file.
- Use Hibernate to make a connection with database.

2. Create a migration file for all the tables given in following schema. Define required constraints on given tables. Define triggered actions that will be attached to each foreign key constraint. Please refer the migration file for better understandings.

Figure 5.7

Referential integrity constraints displayed on the COMPANY relational database schema.



3. Create one API in which input parameter is table name and csv file and then Import data from the given excel files to the given tables.

- No Data Duplicacy.
- Unlink File after data imported.

Part-2

1. Write the following APIs.

- a. For each department whose average employee salary is more than \$30,000, retrieve the department name and the number of employees working for that department.
- b. A view that has the department name, its manager's name, number of employees working in that department, and the number of projects controlled by that department (for each department).
- c. A view that has the project name, controlling department name, number of employees working on the project, and the total hours per week they work on the project (for each project).
- d. A view that has the project name, controlling department name, number of employees, and total hours worked per week on the project for each project with more than one employee working on it.
- e. A view that has the employee name, employee salary, department that the employee works in, department manager name, manager salary, and average salary for the department.