

Assignment: JPA/Hibernate: M:N, 1:1, and inheritance

Goal:

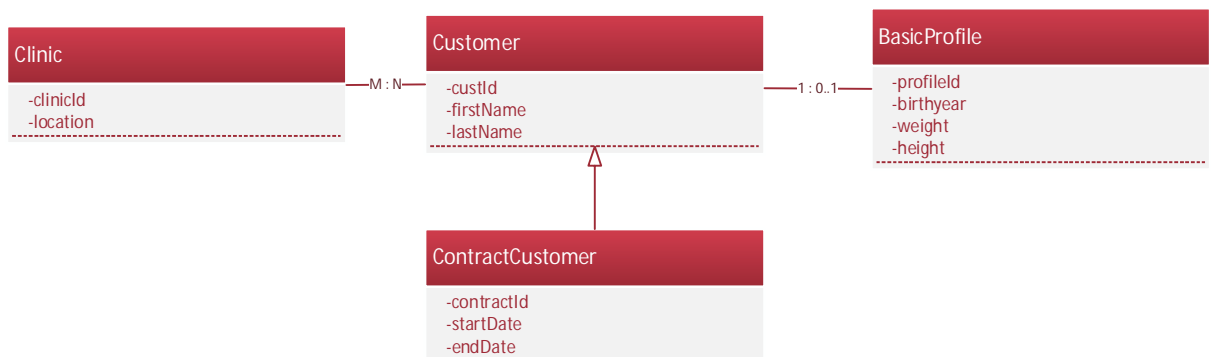
In this assignment, you learn to construct and use a multi-table JPA project with many-to-many and one-to-one associations as well as inheritance relationships.

Instructions:

For deliverables of this assignment, submit a single pdf file containing the requested items (screenshots, source codes etc.) specified with each task below. Feel free to add your own comments, clarifications, and explanations.

In Eclipse, generate a new Java project called **Health**. You can do this easily by copying and pasting your old project. Once copied, open your new **pom.xml** and change the **groupId** and **artifactId** element contents to something unique.

The application's UML diagram is as follows:



Tasks:

1. Add annotations to the entities. Implement a bi-directional association between **Customer** and **BasicProfile** in such a way that the resulting **BasicProfile** table contains a foreign key that refers to the primary key of the **Customer** table. Generate a few objects and verify the proper persistence of the data at the DB level.
Deliverable: screenshots of the relevant source codes and database tables.
2. Modify the annotations in such a way that the previously mentioned association is implemented via a shared primary key (custId). Verify the correctness at the DB level.
Deliverable: screenshots of the relevant source codes and database tables.

3. Edit the annotations so that each of the three strategies implements the inheritance. Monitor the effect at the DB level.

Deliverable: screenshots of the relevant source codes and database tables.