Module 06: Complex Mapping

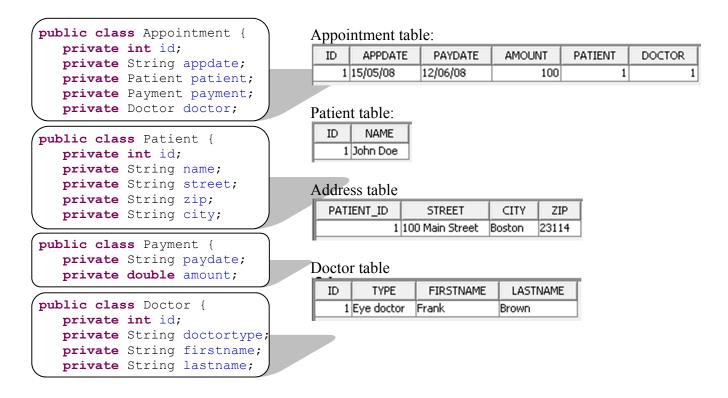## Exercise 06.1 – Complex Mapping Exercise

The Setup:

The objective of this exercise is to practice mapping classes onto a table structure that does not closely match the class structure. In other words: to practice more complex mapping.

Start this exercise by creating a new project called **exercise06.1**. Remember to add the **Hibernate dependencies** to the project.

The Exercise:

Create an application that maps the following classes onto the tables listed next to them:

```java
public class Appointment {
    private int id;
    private String appdate;
    private Patient patient;
    private Payment payment;
    private Doctor doctor;
```

Appointment table:

ID	APPDATE	PAYDATE	AMOUNT	PATIENT	DOCTOR
1	15/05/08	12/06/08	100	1	1

```java
public class Patient {
    private int id;
    private String name;
    private String street;
    private String zip;
    private String city;
```

Patient table:

ID	NAME
1	John Doe

Address table

PATIENT_ID	STREET	CITY	ZIP
1	100 Main Street	Boston	23114

```java
public class Payment {
    private String paydate;
    private double amount;
```

Doctor table

ID	TYPE	FIRSTNAME	LASTNAME
1	Eye doctor	Frank	Brown

```java
public class Doctor {
    private int id;
    private String doctortype;
    private String firstname;
    private String lastname;
```

Once you have mapped the classes, test your mappings by creating an application which stores an object structure, and then retrieves it again to check everything was persisted correctly