Lab: Java Auto Mapping Objects

This document defines the lab assignments for the "Spring Data" course @ Software University.

1. Simple Mapping

Create class Employee that has properties first name, last name, salary, birthday and address. Create EmployeeDto class that will keep synthesized information about instances of the Employee class (only first name, last name and salary). Create an instance of employee object and use the ModelMapper to map the newly created Employee to object of type EmployeeDto.

2. Advanced Mapping

Create class Employee with properties first name, last name, birthday, salary, information about whether the employee is on holiday, address, manager (another employee) and list of employees that he/she is in charge of.

Create 2 types of data transfer objects – employee data transfer object and manager data transfer object.

- **EmployeeDto** first name, last name, salary
- ManagerDto first name, last name, list of EmployeeDtos that he/she is in charge of and their count

Create a list of several employees, then transform it to list of ManagerDtos and print it on the console in the format provided below:

```
{ManagerFirstName} {ManagerLastName} | Employees: {EmployeesCount}
- {EmployeeFirstName} {EmployeeLastName} {EmployeeSalary}
```

Example

Sample output

Steve Jobbsen | Employees: 2

- Stephen Bjorn 4300.00
- Kirilyc Lefi 4400.00

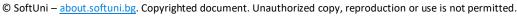
Carl Kormac | Employees: 14

- Jurgen Straus 1000.45
- Moni Kozinac 2030.99
- Kopp Spidok 2000.21

3. Projection

Use Hibernate to create and insert into a database a list of employees, for which each employee has first name, last name, salary, birthday, address and manager (another employee). Transform to EmployeeDto (first name, last name, salary, manager's last name) those employees who are born before 1990. Order them by salary descending and print them on the console.

















Example

Sample output

Steve Jobbsen 6000.20 - Manager: [no manager]

Kirilyc Lefi 4400.00 - Manager: Jobbsen Stephen Bjorn 4300.00 - Manager: Jobbsen















