

W1D5: Quiz

CS544 Enterprise Architecture

1. Based on the following classes with annotations write what the table names, column names and data types for the columns will be in the database.
2. Question 2 is on the back of this page!

```
@Entity(name="People")
public class Person {
    @Id
    @GeneratedValue
    private int id;
    private String firstname;
    private String lastname;
    @OneToMany(mappedBy="person")
    private List<Pet> pets
        = new ArrayList<Pet>();
}
```

```
@Entity
@SecondaryTable(name="Birth")
public class Pet {
    @Id
    @GeneratedValue
    private int id;
    private String name;
    private String species;
    private String gender;
    @Column(table="Birth")
    private Date birthDate;
    @ManyToOne
    @JoinColumn(name="owner_id")
    private Person person;
    @OneToMany
    @JoinColumn(name="Pet_id")
    private List<Toy> toys
        = new ArrayList<Toy>();
}
```

```
@Entity
public class Toy {
    @Id
    @GeneratedValue
    private int id;
    private String description;
    private String material;
    private String color;
}
```

```
@Entity
public class Ball extends Toy {
    private int Size;
}
```

```
@Entity
public class StuffedAnimal
    extends Toy {
    private String species;
}
```

Name: _____ StudentID: _____

Based on the classes and tables from the previous question, write the following HQL queries:

- a. All Persons that own a Pet with the name 'Fido'
- b. All Pets owned by 'John' (Person first name) that have a toy ball (toy description)