Name:	StudentID:
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# W2D3: Quiz

## CS544 Enterprise Architecture

1. Annotate the following code to map exactly to the tables on the back of the page. Please also answer the theory questions on the back of the page

```
@Entity
                                         @Inheritance(strategy=
InheritanceType.SINGLE_TAB
1.@SecondaryTable(name="Owners")
  public class Vehicle {
   @Id @GeneratedValue 
     private Long id;
    @Column(table="Owners")
     private String owner;
    @Column(name="manufacturer")
     private String make;
     private String model;
     @Column(nullable=false)
     private int year;
     private String color;
   🖁 @OneToMany
     @JoinColumn(name="wheels id") @OrderColumn(name="wheels ORDER")
     private List<Wheel> wheels;
 l!
  @Entity
  public class Bike extends Vehicle {
     private int numgears;
  }
L@Entity
  public class Wheel {
     private Long id;
     private int size;
     private double pressure;
  }
```

### mysql> describe Vehicle;

	Field	Туре	Null	Key	Default	Extra	l
<b>~</b>	DTYPE   id   color   manufacturer   model   year   numgears	varchar(31)   bigint(20)   varchar(255)   varchar(255)   varchar(255)   int(11)   int(11)	YES	PRI             	NULL NULL NULL NULL NULL NULL NULL	auto_increment	+
	•					•	•

mysql> describe	Wheel;	++
Field	Type	Null   Key   Default   Extra
id   pressure   size   wheels_id   wheels_ORDER	bigint(20)   double   int(11)   bigint(20)   int(11)	NO

#### mysql> describe Owners;

Field	Туре	Null	L   Key	Default	Extra	
owner     id	varchar(255) bigint(20)	YES   NO	   PRI	NULL   NULL		

2. What are the 3 ways to map inheritance?

Single table Joined tables Table per concrete class

3. What is a value class, and how is it different from an entity class?

A value class is an @Embedabble, it goes inside an entity, becomes part of the entity's table. It does not have an @Id