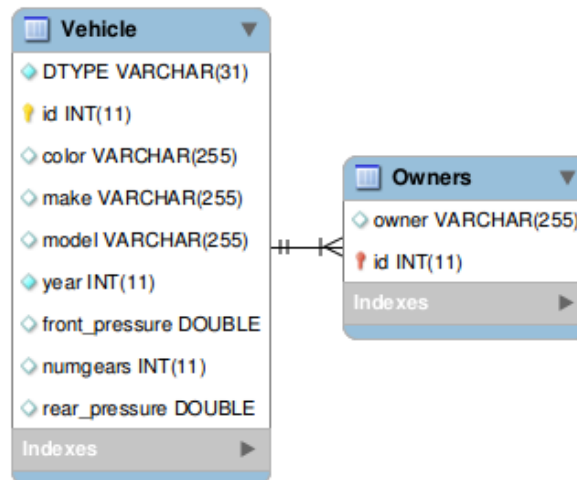# W1D4: Quiz

*CS544 Enterprise Architecture*

1. Annotate the following code to map exactly onto the tables below and on the back

```
public class Vehicle {

    private int id;

    private String owner;

    private String make;

    private String model;

    private int year;

    private String color;
```

```
public class Bike extends Vehicle {

    private int numgears;

    private Wheel front;

    private Wheel rear;


public class Wheel {

    private double pressure;
```

**Vehicle**
- ◇ DTYPE VARCHAR(31)
- 🔑 id INT(11)
- ◇ color VARCHAR(255)
- ◇ make VARCHAR(255)
- ◇ model VARCHAR(255)
- ◆ year INT(11)
- ◇ front_pressure DOUBLE
- ◇ numgears INT(11)
- ◇ rear_pressure DOUBLE
- Indexes ▶

**Owners**
- ◇ owner VARCHAR(255)
- 🔑 id INT(11)
- Indexes ▶

```
mysql> describe Vehicle;
+----------------+--------------+------+-----+---------+----------------+
| Field          | Type         | Null | Key | Default | Extra          |
+----------------+--------------+------+-----+---------+----------------+
| DTYPE          | varchar(31)  | NO   |     | NULL    |                |
| id             | int(11)      | NO   | PRI | NULL    | auto_increment |
| color          | varchar(255) | YES  |     | NULL    |                |
| make           | varchar(255) | YES  |     | NULL    |                |
| model          | varchar(255) | YES  |     | NULL    |                |
| year           | int(11)      | NO   |     | NULL    |                |
| front_pressure | double       | YES  |     | NULL    |                |
| numgears       | int(11)      | YES  |     | NULL    |                |
| rear_pressure  | double       | YES  |     | NULL    |                |
+----------------+--------------+------+-----+---------+----------------+

mysql> describe Owners;
+-------+--------------+------+-----+---------+-------+
| Field | Type         | Null | Key | Default | Extra |
+-------+--------------+------+-----+---------+-------+
| owner | varchar(255) | YES  |     | NULL    |       |
| id    | int(11)      | NO   | PRI | NULL    |       |
+-------+--------------+------+-----+---------+-------+
```