

# Lab: Hibernate Code First

This document defines the lab assignments for the ["Spring Data" course at Software University](#).

## 1. Vehicle Hierarchy

Your task is to **create a Vehicle hierarchy**.

### Vehicle - Abstract Class

- Has an **Id** – **Long**
- Has a **Type** - **String**
- Has a **Model** - **String**
- Has a **Price** - **BigDecimal**
- Has a **fuelType** - **String**

### Car

Extends from the **Vehicle** class.

- Has **Seats** - **Integer**

### Truck

Extends from the **Vehicle** class.

- Has **loadCapacity** - **Double**

### Bike

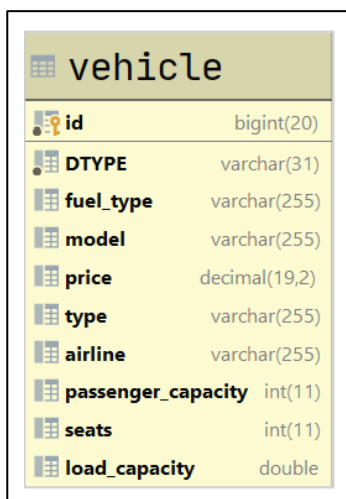
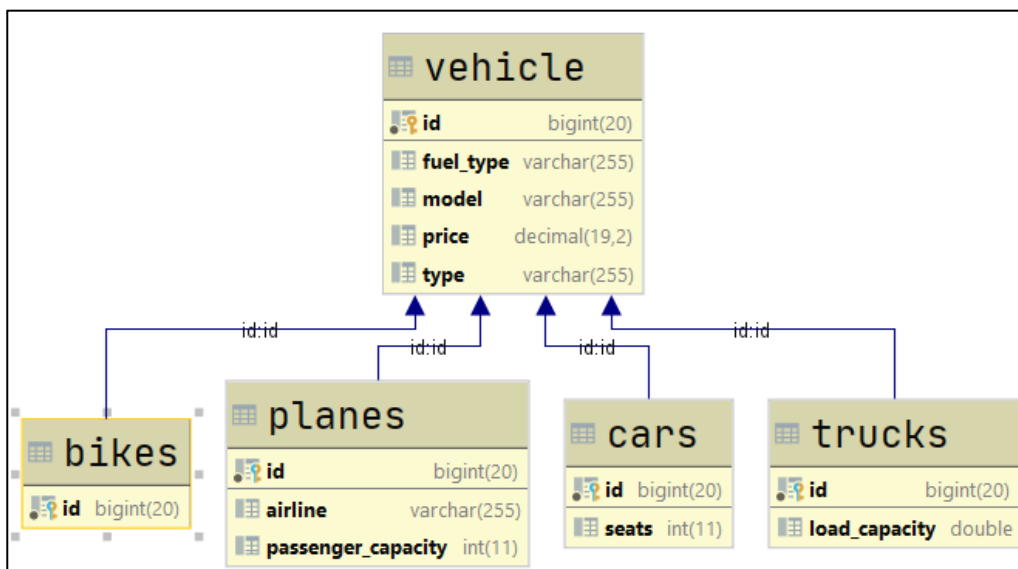
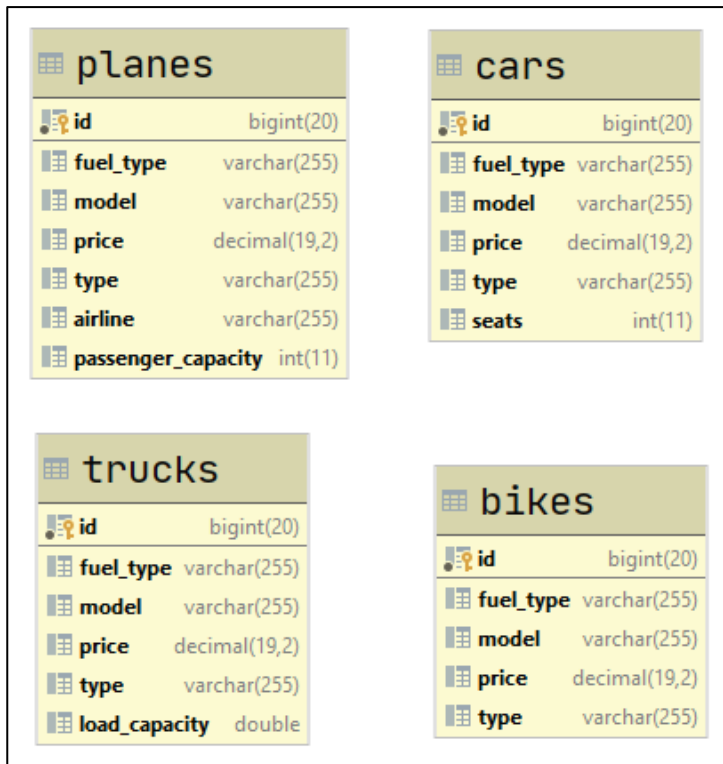
Extends from the **Vehicle** class.

### Plane

Extends from the **Vehicle** class.

- Has **passengerCapacity** - **Integer**

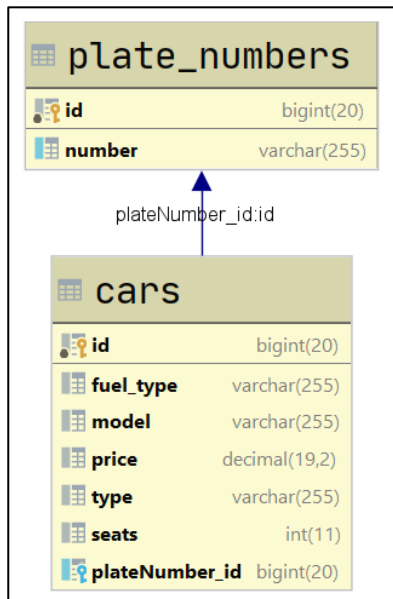
Use the appropriate **inheritance types** to reach **the diagrams** in the examples.



## 2. Relations

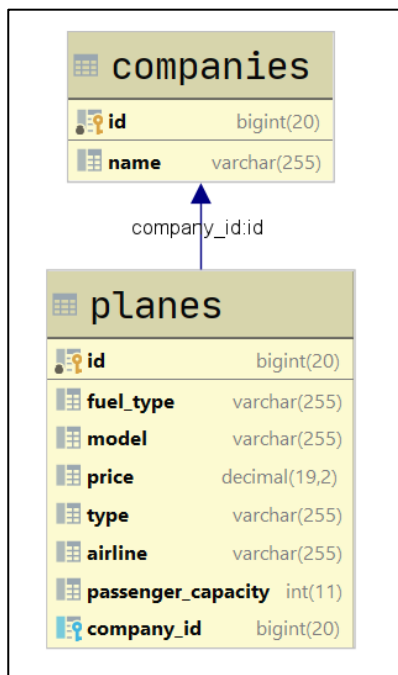
### Plate\_number

- Has an **id** - **BigInteger**
- Has a **number** - **String**
- Has a **one to one** relations with **Cars**



### Companies

- Has an **id** - **BigInteger**
- Has a **name** - **String**
- Has a **one to many** relations with **Planes**



## Drivers

- Has an **id** - **BigInteger**
- Has a **full\_name** - **String**
- Has **many to many** relations with **Cars**

