There are models that the **Car Service database** application should contain in its functionality.

I design them, considering the following **data constraints from the schema**:

BRAND

* id – accepts **BIGINT** values, a **primary identification field, an auto incremented field**.
* name - VARCHAR – the enumeration, one of the following – **AUDI, BMW, VW**
* **Constraint**: The BRAND table has a relation with the MODEL table.

MODEL

* id – accepts **BIGINT** values, a **primary identification field, an auto incremented field**.
* name - VARCHAR – the enumeration, one of the following – **Q7, X4, Q5**
* **brand\_**id – accepts **BIGINT** values, FOREIGN KEY

TRANSMISSION

* id – accepts **BIGINT** values, a **primary identification field, an auto incremented field**.
* name - VARCHAR – the enumeration, one of the following – **AUTOMATIC, MANUAL, HYBRID**

FUEL\_TYPE

* id – accepts **BIGINT** values, a **primary identification field, an auto incremented field**.
* name - VARCHAR – the enumeration, one of the following – **GASOLINE, DIESEL, GAS, Electric**

CAR

* id – accepts **BIGINT** values, a **primary identification field, an auto incremented field**.
* vin\_number – VARCHAR - accepts **char** **sequence** .
* **model\_**id – accepts **BIGINT** values, FOREIGN KEY
* price – NUMBER - accepts a very big **positive number**.
* **reg\_date** – a **DATE** .
* **transmission\_**id – accepts **BIGINT** values, FOREIGN KEY
* **fuel\_type\_**id – accepts **BIGINT** values, FOREIGN KEY
* **Constraint**: The CAR table has a relation with the MODEL table.
* **Constraint**: The CAR table has a relation with the TRANSMISSION table.
* **Constraint**: The CAR table has a relation with the FUEL\_TYPE table.

**My Constraint**:

* Name the entities and their class members **exactly** in the **format stated** above.
* All fields are **NOT NULL** unless explicitly stated to be nullable.

**The Task Constraint**:

**For creation of the model you can use any type of relational database you know. To complete the task you must:**

1. Implement all the CRUD operation for create, update and delete. Be aware that you must add validation on creation for all mandatory fields because we can’t create any of the entities without them and throw exception if any of the mandatory fields are missing in the request.

2. Implement search functionality on cars. For search criteria must use **PRICE, MODEL, BRAND and FUEL\_TYPE, REG\_DATE, TRANSMISSION\_TYPE and ORBER BY PRICE descending.**