



# Projet ETL

## Supercar



# Introduction

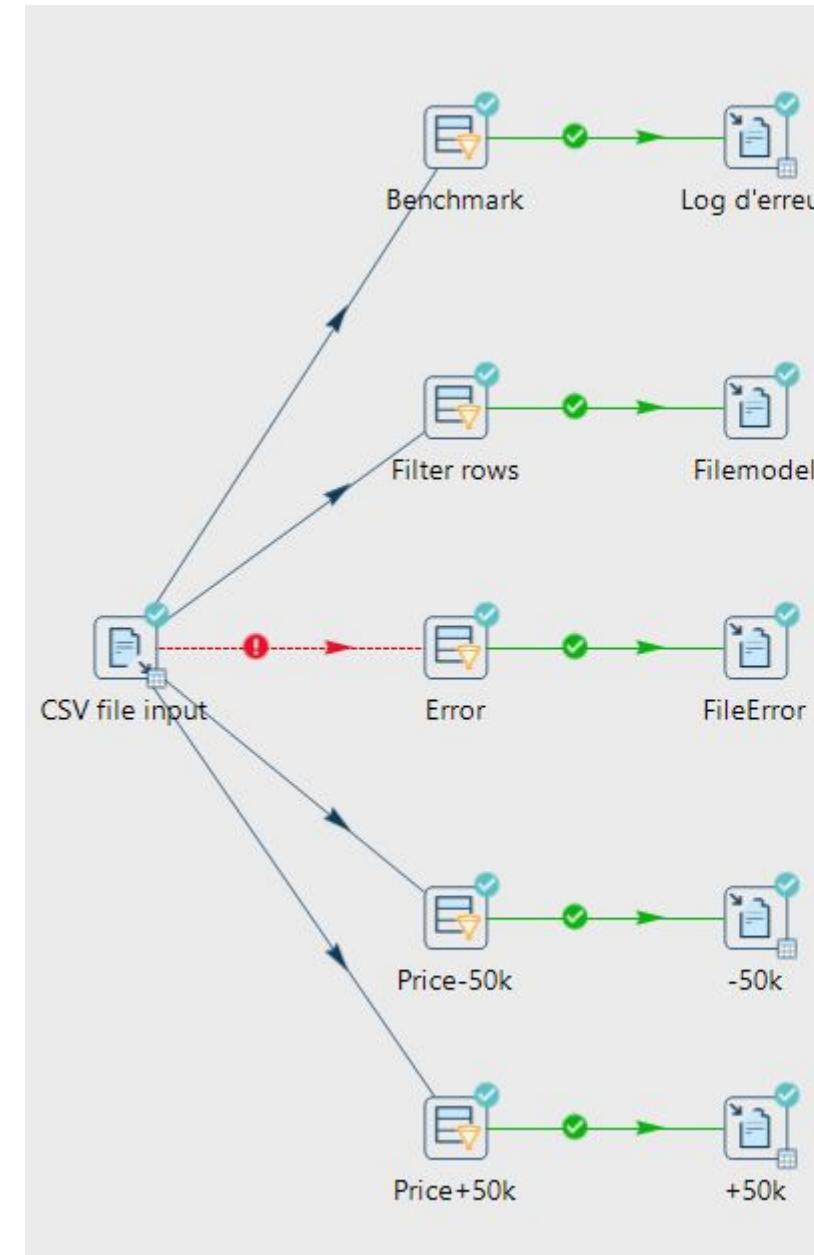
- Problématique: Fournir et trier des informations sur des sc
- Présentation du Dataset <https://www.kaggle.com/datasets/sadiajavedd/sports-car-speed-power-and-pricing-dataset?resource=download>
- Présentation du Pipeline Hop
- Présentation du Graph Neo4J
- Base de donnée MongoDB

# Dataset Supercar

Marque	Modèle	Année	Taille du moteur	Chevaux	Couple	0-100 km/h	Prix
Ex: Hyundai	Ex: i20	-	Litres	-	livre-pied(lb-ft)	Secondes	Dollars (USD)



# Pipeline Hop



#	Transform Name	Copy	Input	Read	Written	Output
1	CSV file input	0	1,008	0	1,007	0
2	Benchmark	0	0	252	252	0
3	Log d'erreur	0	0	252	252	253
4	Price-50k	0	0	252	226	0
5	Error	0	0	0	0	0
6	FileError	0	0	0	0	0
7	-50k	0	0	226	226	227
8	Price+50k	0	0	252	45	0
9	+50k	0	0	45	45	46
10	Filter rows	0	0	251	0	0
11	Filemodel	0	0	0	0	0

**Filter rows**

Transform name: **Benchmark**

Send 'true' data to transform: **Log d'erreur**

Send 'false' data to transform:

The condition:

OR `i>Car Make IS NOT NULL`

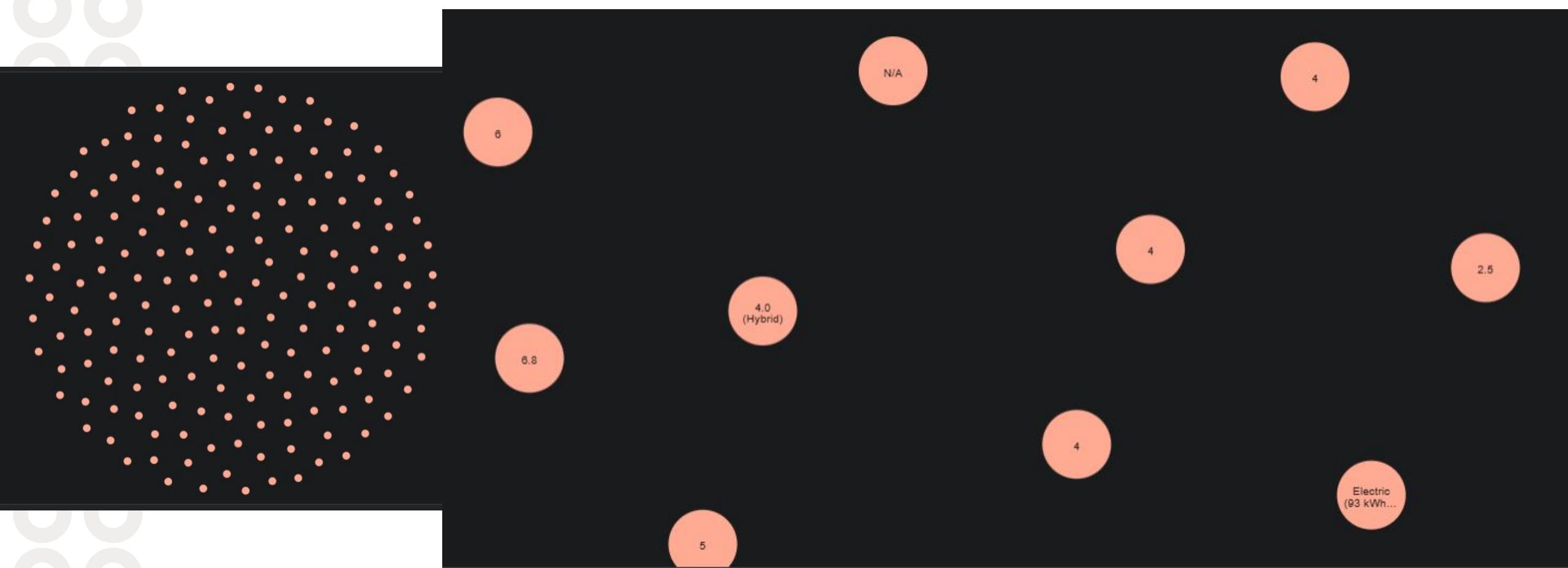
OR `Car Model IS NOT NULL`

OR `Year IN LIST Year`

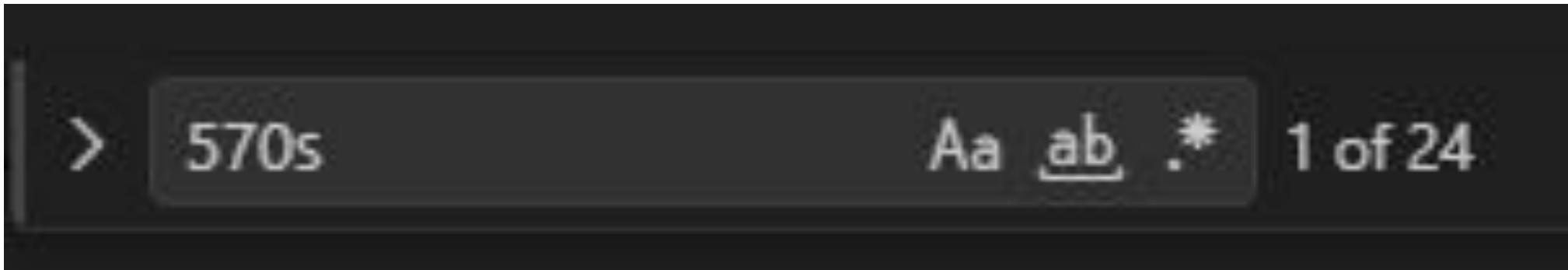
OR `Engine Size (L) CONTAINS [N/A]`

# Graph Neo4J

Taille des moteurs pour tous les modèles



# Autres difficultés rencontrées



Transform name:

Send 'true' data to transform:

Send 'false' data to transform:

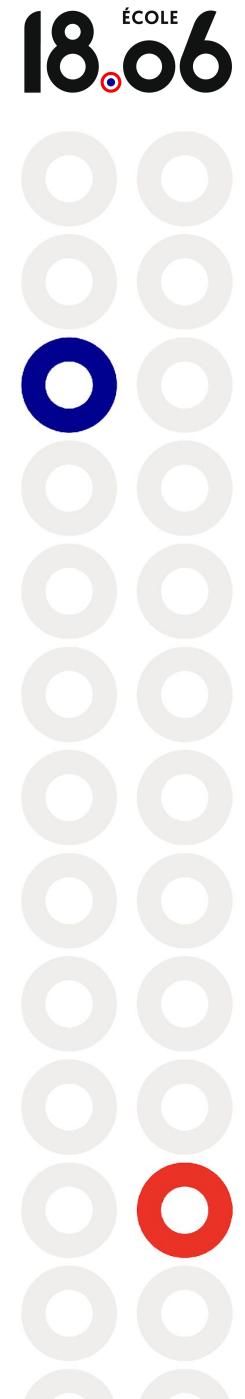
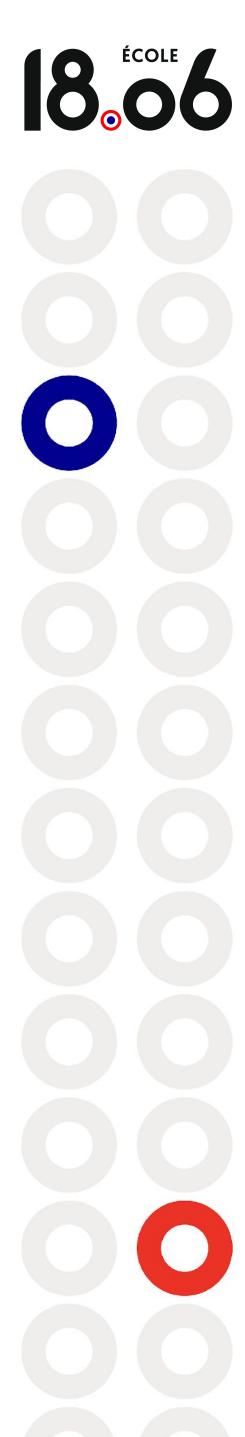
The condition:

+

Year > Year

AND

Car Model = Car Model



# MongoDB ~~> JSON

## Export

Aggregation on Supercar.Supercar

Export results from the aggregation below

```
db.getCollection('Supercar').aggregate([], {  
    maxTimeMS: 60000,  
    allowDiskUse: true  
});
```

Export File Type

**JSON**

CSV

» Advanced JSON Format

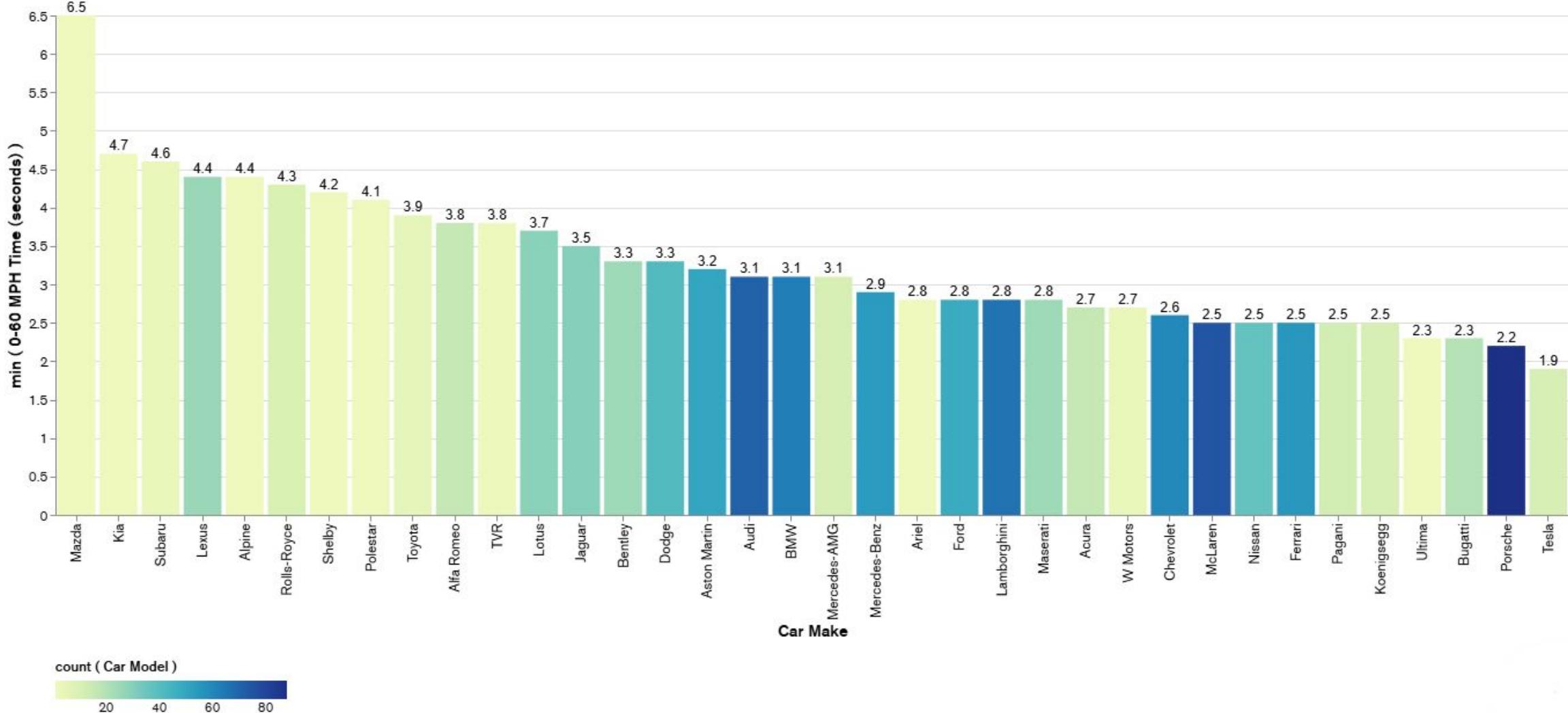
Cancel  Export...

```
9258  _id: {  
9259   "$oid": "6996f2ecb70bce36bf5d8930"  
9260 },  
9261   "Car Make": "Mercedes-Benz",  
9262   "Car Model": "SLS AMG",  
9263   "Year": 2015,  
9264   "Engine Size (L)": 6.2,  
9265   "Horsepower": 622,  
9266   "Torque (lb-ft)": 468,  
9267   "0-60 MPH Time (seconds)": 3.5,  
9268   "Price (in USD)": "228,000"  
9269 },  
9270 {  
9271   _id: {  
9272     "$oid": "6996f2ecb70bce36bf5d893b"  
9273 },  
9274   "Car Make": "McLaren",  
9275   "Car Model": "Senna",  
9276   "Year": 2019,  
9277   "Engine Size (L)": 4,  
9278   "Horsepower": 789,  
9279   "Torque (lb-ft)": 590,  
9280   "0-60 MPH Time (seconds)": 2.7,  
9281   "Price (in USD)": "1,050,000"  
9282 },  
9283 {  
9284   _id: {  
9285     "$oid": "6996f2ecb70bce36bf5d8948"  
9286 },  
9287   "Car Make": "Nissan",  
9288   "Car Model": "400Z",  
9289   "Year": 2023,  
9290   "Engine Size (L)": 3,  
9291   "Horsepower": 400,  
9292   "Torque (lb-ft)": 350,  
9293   "0-60 MPH Time (seconds)": 4,  
9294   "Price (in USD)": "40,000"  
9295 },
```

# BDD MongoDB

Les plus rapides !

Le 0 à 100km/h le plus rapides par modèle et par marque



Merci à VROUUUMMM!

