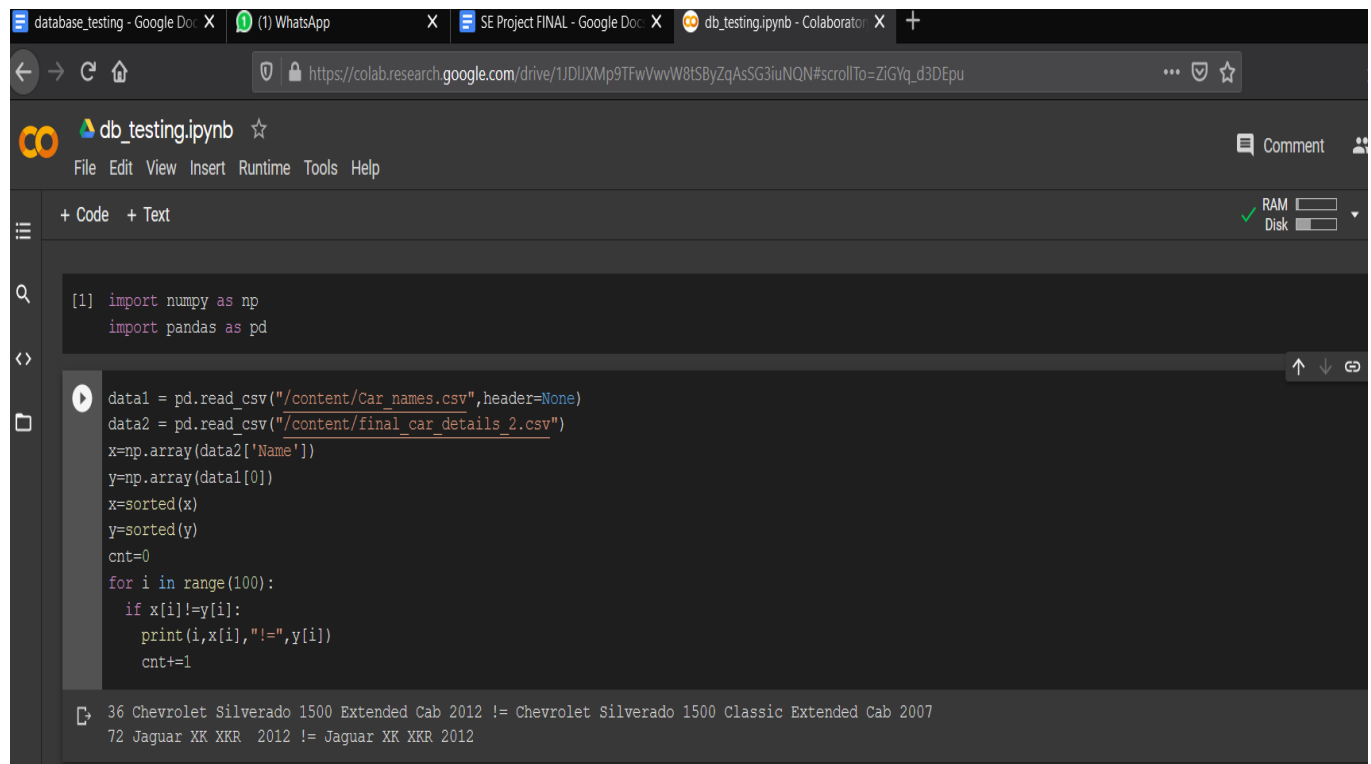


## Database Testing:

In our product, the database was created in postgresql but before creating it we tested the dataset we created by manually searching the models with the models included in the Machine Learning model part. The testing was done to ensure that the model names used in the ML part of our product matches with the dataset we created in order to ensure that it does not cause any problem with the subsequent steps in the development of our product.



```
[1] import numpy as np
import pandas as pd

data1 = pd.read_csv("/content/Car_names.csv", header=None)
data2 = pd.read_csv("/content/final_car_details_2.csv")
x=np.array(data2['Name'])
y=np.array(data1[0])
x=sorted(x)
y=sorted(y)
cnt=0
for i in range(100):
    if x[i]!=y[i]:
        print(i,x[i],"!=",y[i])
        cnt+=1
```

36 Chevrolet Silverado 1500 Extended Cab 2012 != Chevrolet Silverado 1500 Classic Extended Cab 2007  
72 Jaguar XK XKR 2012 != Jaguar XK XKR 2012

The testing phase pointed out the following errors:

```
36 Chevrolet Silverado 1500 Extended Cab 2012 != Chevrolet Silverado 1500 Classic Extended Cab 2007
72 Jaguar XK XKR 2012 != Jaguar XK XKR 2012
```

The error shows that the two names of the models are not matching. So, we made some changes accordingly and finalized our dataset file in the csv format.

Then after, the database is created in postgresql and to test the same we tried to display the content by running a simple sql query.

The results are as follows:

The screenshot shows the pgAdmin 4 web interface. The left sidebar displays the database structure, with 'Tables (12)' expanded under the 'public' schema. The main panel shows a SQL query in the 'Query Editor' tab:

```
1 SELECT * FROM public.car3
2
```

The 'Data Output' tab displays the results of the query as a table with 12 columns: Name, Price, Type, Company, Engine, Seater, Gear, Fuel, Country, and Pat che. The table contains 19 rows of data, listing various car models and their specifications.

	Name	Price	Type	Company	Engine	Seater	Gear	Fuel	Country	Pat che
1	Acura RL Sedan 2012	3518600	Sedan	Acura	300		5 Both	Gas	Japan	/
2	Acura TL Sedan 2012	2606465	Sedan	Acura	280		5 Both	Gas	Japan	/
3	Acura ZDX Hatchback ...	3366760	Hatchback	Acura	300		5 Both	Gas	Japan	/
4	AM General Hummer S...	5840000	SUV	AM General	195		4 Automatic	Diesel	USA	/
5	Aston Martin V8 Vanta...	8760000	Sedan	Aston Martin	430		2 Manual	Petrol	UK	/
6	Aston Martin Virage Co...	16300535	Sedan	Aston Martin	490		4 Automatic	Petrol	UK	/
7	Audi A5 Coupe 2012	284700	Sedan	Audi	211		4 Automatic	Petrol	Germany	/
8	Audi R8 Coupe 2012	8336600	Sedan	Audi	430		2 Manual	Petrol	Germany	/
9	Audi S4 Sedan 2012	5447698	Sedan	Audi	334		5 Automatic	Petrol	Germany	/
10	Audi S5 Convertible 20...	3426109	Sedan	Audi	333		4 Automatic	Petrol	Germany	/
11	Audi S6 Sedan 2011	5555300	Sedan	Audi	435		5 Automatic	Petrol	Germany	/
12	Audi TT RS Coupe 2012	4216480	Sedan	Audi	360		2 Manual	Petrol	Germany	/
13	Bentley Amage Sedan ...	16425000	Sedan	Bentley	500		5 Automatic	Petrol	UK	/
14	Bentley Continental GT...	14034250	Sedan	Bentley	567		4 Automatic	Petrol	UK	/
15	Bentley Mulsanne Sed...	20805000	Sedan	Bentley	505		5 Automatic	Petrol	UK	/
16	BMW 1 Series Converti...	3219300	Sedan	BMW	300		4 Automatic	Both	Germany	/
17	BMW 3 Series Sedan 2...	3740520	Sedan	BMW	240		5 Automatic	Both	Germany	/
18	BMW ActiveHybrid 5 S...	4514685	Sedan	BMW	300		5 Automatic	Both	Germany	/
19	BMW M3 Coupe 2012	4387300	Sedan	BMW	414		4 Manual	Petrol	Germany	/