



Case Study On EV sales Data Analysis

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Introduction!

The project is about electric vehicle data analysis with the help of SQL. In this, we are exploring different aspects of ev sales took place in Washington DC..





20,000

No. of rows of data we used for the analysis





Maps





The first Ev

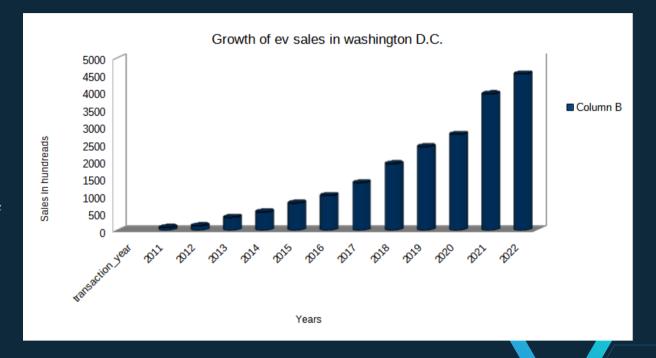


Around 1832, Robert Anderson develops the first crude electric vehicle, but it isn't until the 1870s or later that electric cars become practical. Pictured here is an electric vehicle built by an English inventor in 1884.



Growth of ev sales over the years

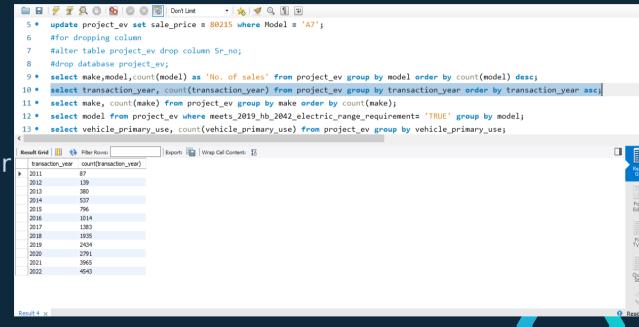
 From the given data we sorted the data according to sales of evs on the basis of years





For that we used group by and order by for filtering and ordering the data

Command used

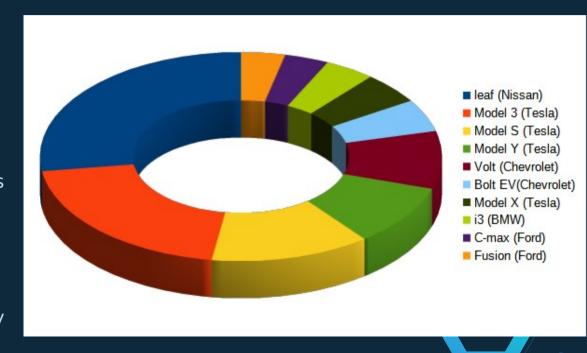




Most Popular Models

The most popular models whose sales took place in the span of the 2011-22 Are listed here

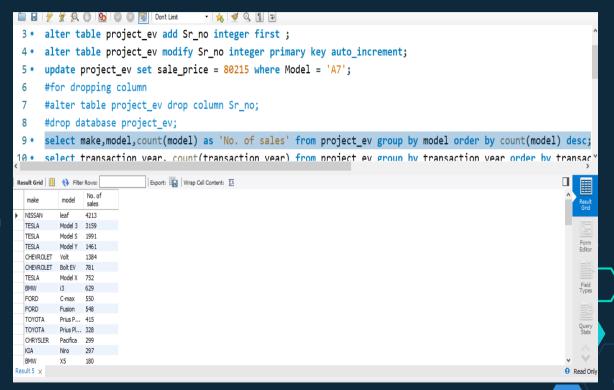
As we can see here Nissan leaf is the most popular car beside the popularity of the tesla brand





- For that we used select, group by and and order by functions
- As we can see the nissan leaf is the most popular car with sales around 4000.

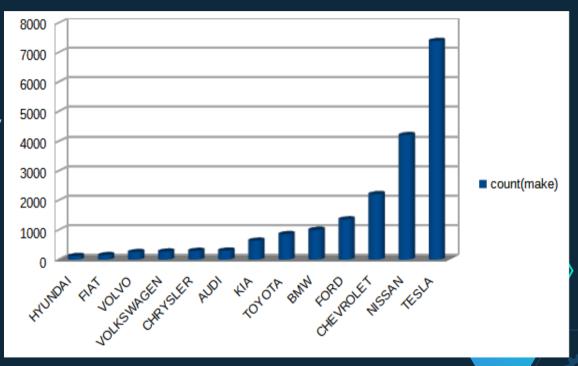
Commands used





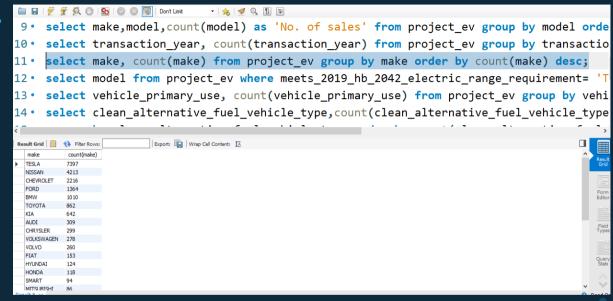
Most popular Car Company

- For finding which is the most popular car company we filtered and sorted the data on the basis of sales and companies respectively
- As we can see tesla is the most popular brand followed by nissan cheverlet, ford as a market leader
- To Show the model of EV cars in count(model).





Command used



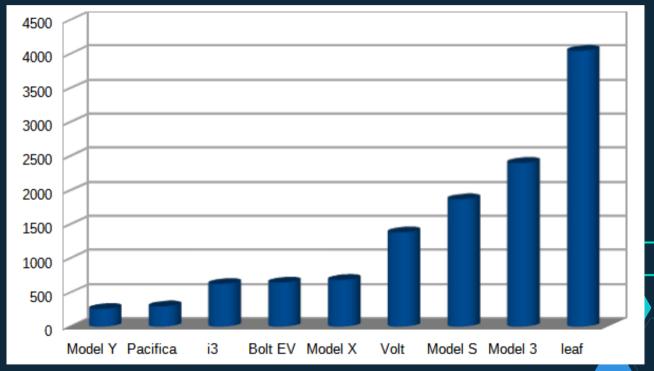
 For this we used group by , order by and count functions for filtering and sorting the data





Passes 2019 HB regulations

Here is the graph about which car company make cars which meets 2019 HB regulations about subsidies for evs



Commands used

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      select make model count(model) as 'No. of sales' from project ev group by model order by count(model) desc:
30
      #For finding which models passes or meets 2019 regulations for subsidies
31
32
      #For finding companies which gives most of the cars which meets required conditions for subsidies
33
34
      select model,count(model) from project ev where meets 2019 hb 2042 electric range requirement= 'TRUE'
35 ·
      group by model order by count(model) desc;
36
37
      #For finding types of vehicles according to primary use
38
39
40
      select vehicle primary use, count(vehicle primary use) from project ev group by vehicle primary use;
41
                            Export: Wrap Cell Content: IA
        count(model)
```

For finding which models meets subsidised cars we use count Function, where clause, group by and order by functions.



The ev with best range



Audi A7 Range -: 405





15

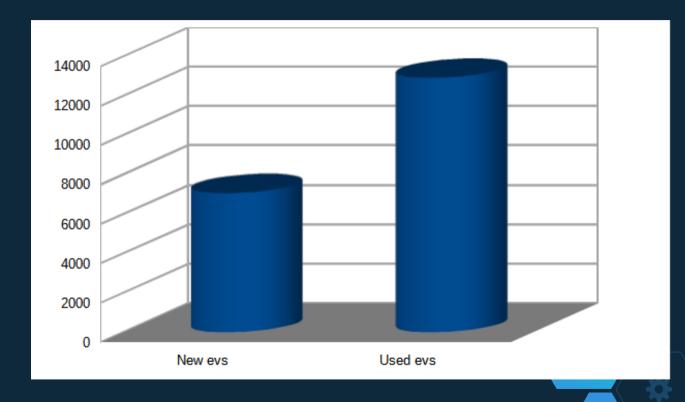
Command used

We Used max function and anti aliasing function for filtering the data and naming the field name



New vs Used evs

Here we can see that purchase of used evs quite high! In-fact it is 50% greater than the purchases of the new evs!





Command used

For that we used count function and where clause.



Thanks!

Any questions?

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