Milestone 1:
Empathy map creation

Template

Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

Share template feedback

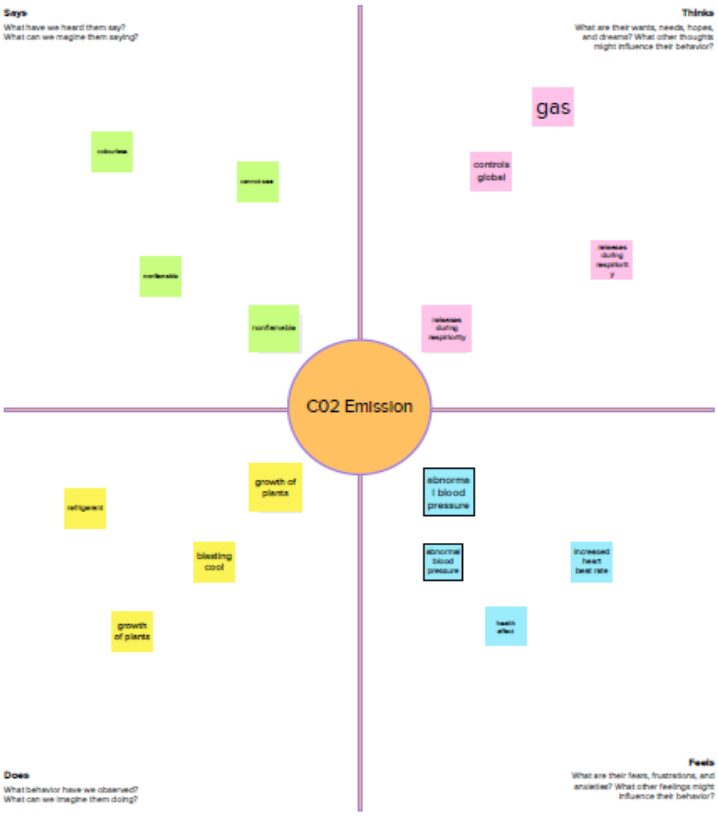
Need some inspiration?

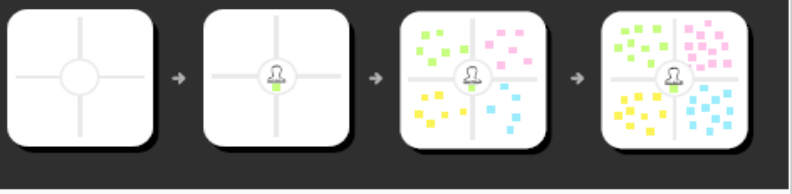
See a finished version of this template to kickstart your work.

Open example →

Build empathy

The information you add here should be representative of the observations and research you've done about your users.





Milestone 2:
Data Collection & Extraction from Database

Milestone 2: Data Collection & Extraction from Database

Data collection is the process of gathering and measuring information on variables of interest, in

an established systematic fashion that enables one to answer stated research questions, test

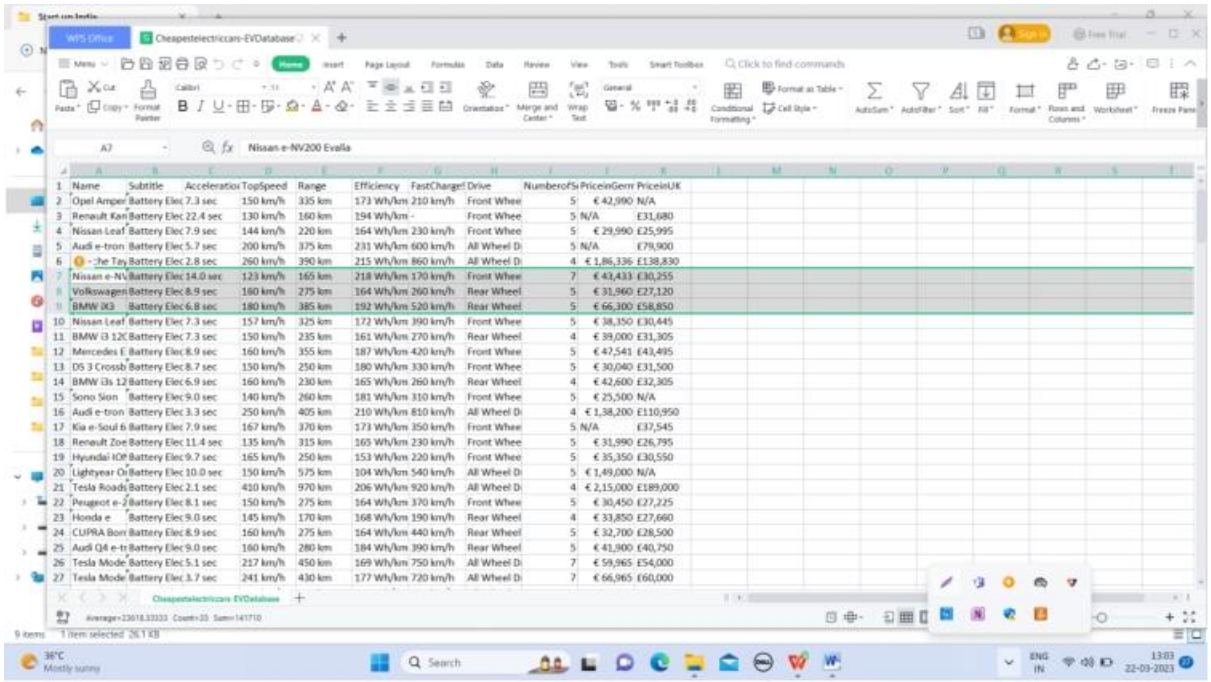
hypotheses, evaluate outcomes and generate insights from the data.

Activity 1: Downloading the dataset

Please use the link to download the dataset: Link

Solution:

We download the data set for startup India project



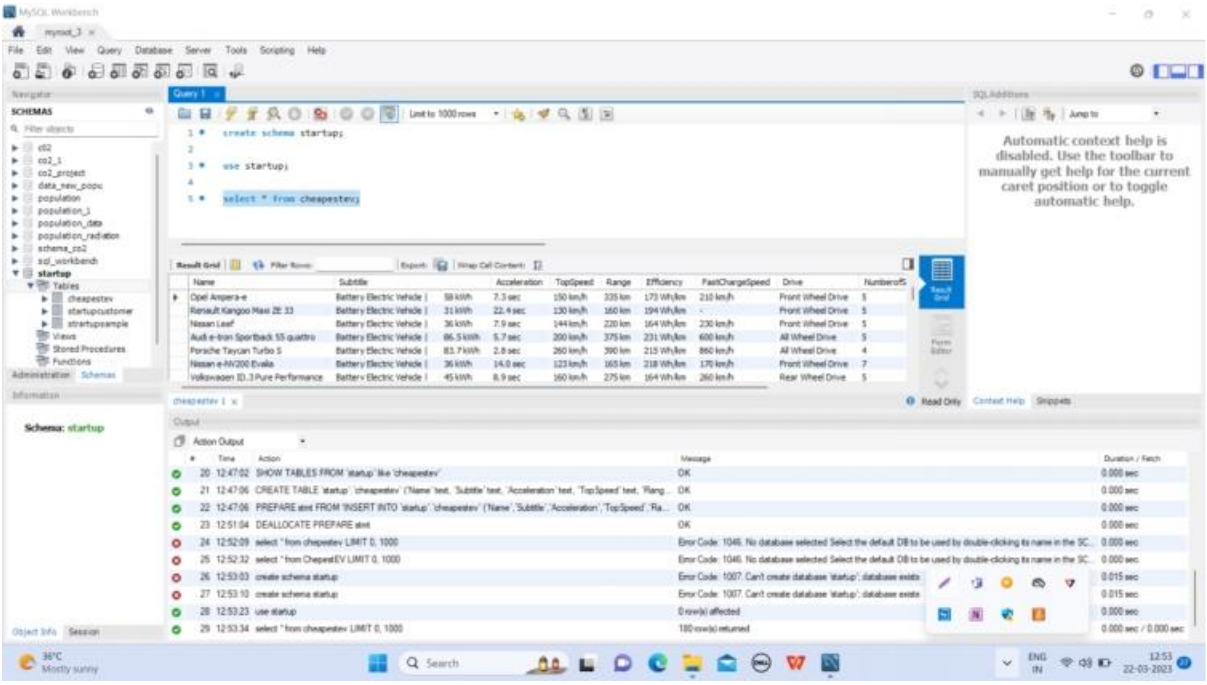
Activity 2: Storing Data in DB & Perform SQL Operations

Explanation video link:

https://drive.google.com/file/d/1uUaPt7PE3t-jPk4txwyGsbVDkcXzDwOl/view?usp=sharing

Solution:

We stored the data base and the csv file imported



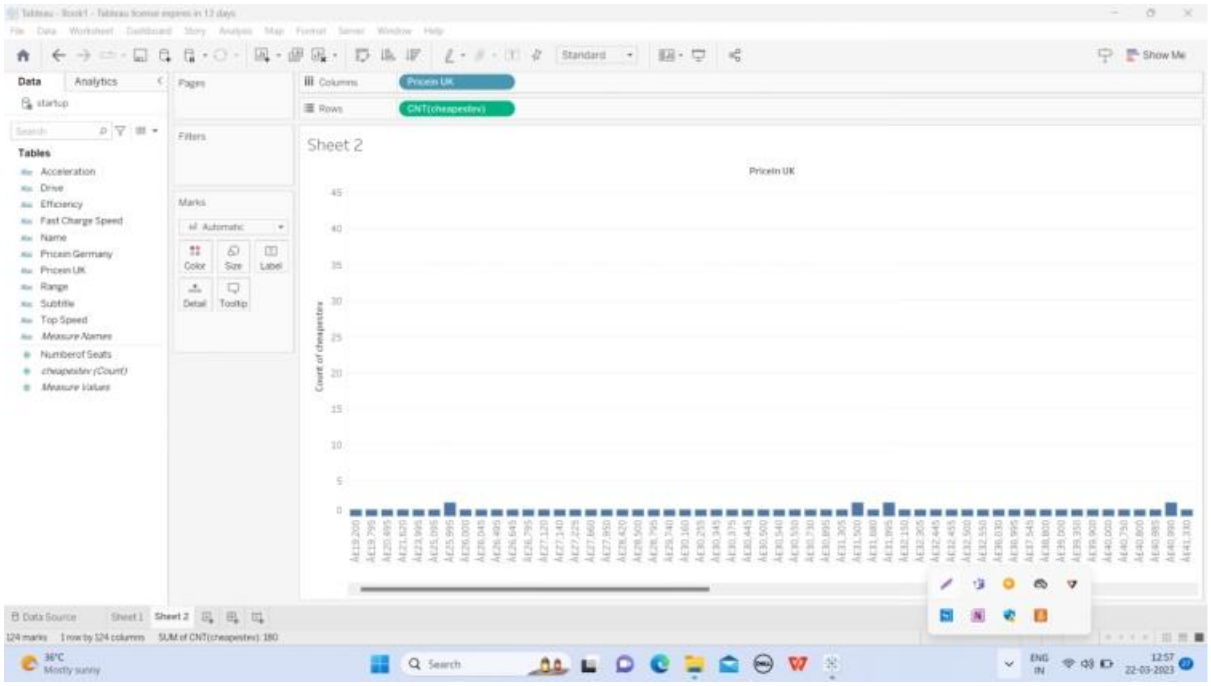
Activity 3: Connect DB with Tableau

Explanation video link:

https://drive.google.com/file/d/1SRA3ZmvxodiJSLgAFZaOIDdXSHxxyId4/view?usp=sharing

Solution:

Connected it with tableau and draw a new graph



Milestone 3:
Data Preparation

Milestone 3: Data Preparation

Activity: Prepare the Data for Visualization

Solution:

We collected the data set. The followings are in the set as

1.csv file is noted.

2. The data consists of various electronic vehicle companies such as Opel Ampera-e, Renault, Nissan Leaf, Audi etc.

3. The acceleration speed had been given as from 7 to 20 seconds.

4. The top speed of them in the range of 100 to 500 km/h approximately.

5. The machine efficiency is given in the range of 100 to 250 Wh/km.

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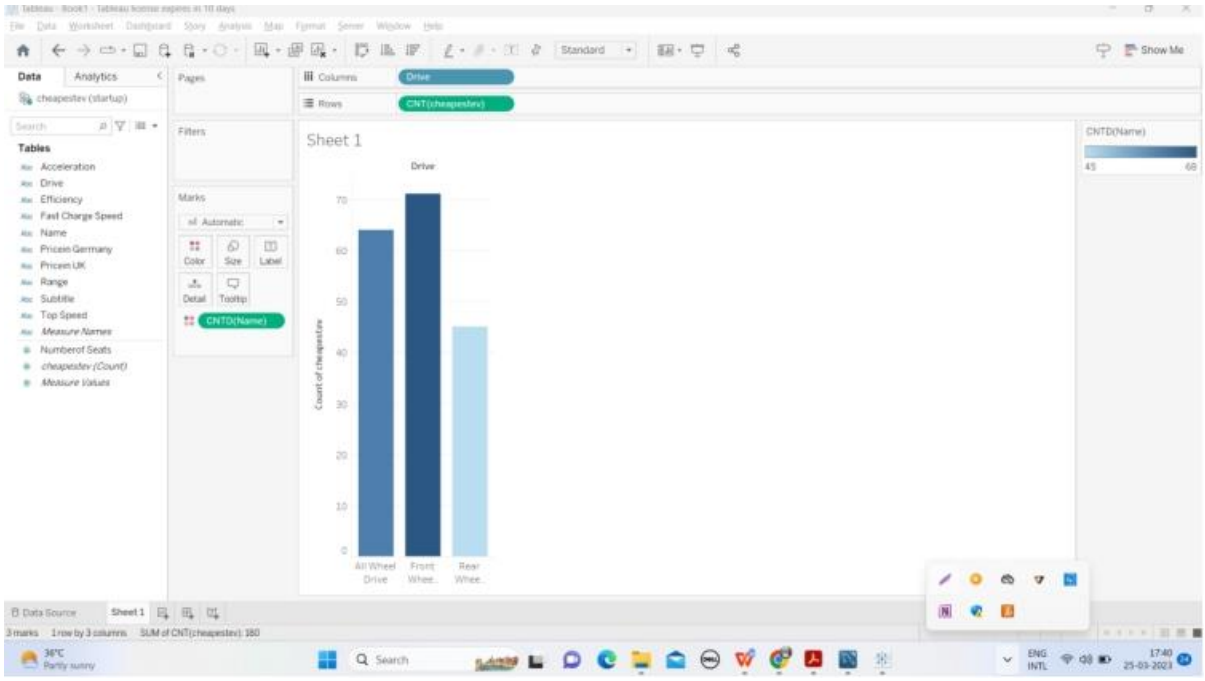
Milestone 4:
Data Visualization

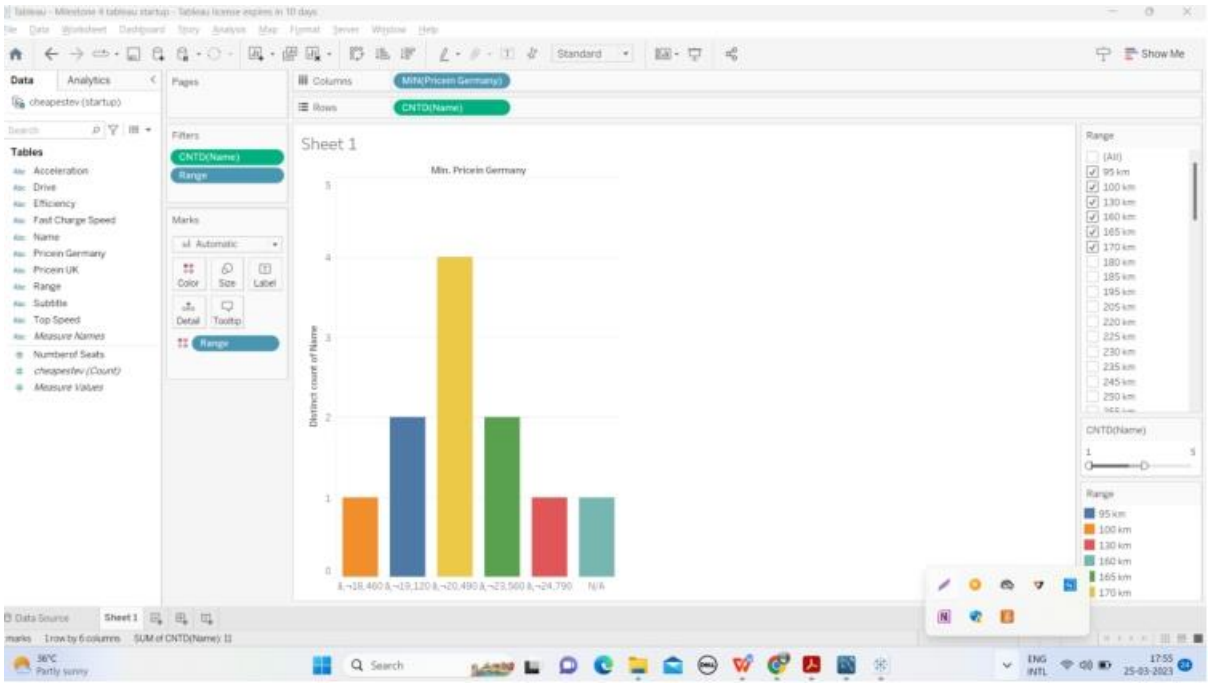
Milestone 4: Data PreparationMilestone 4: Data Visualization

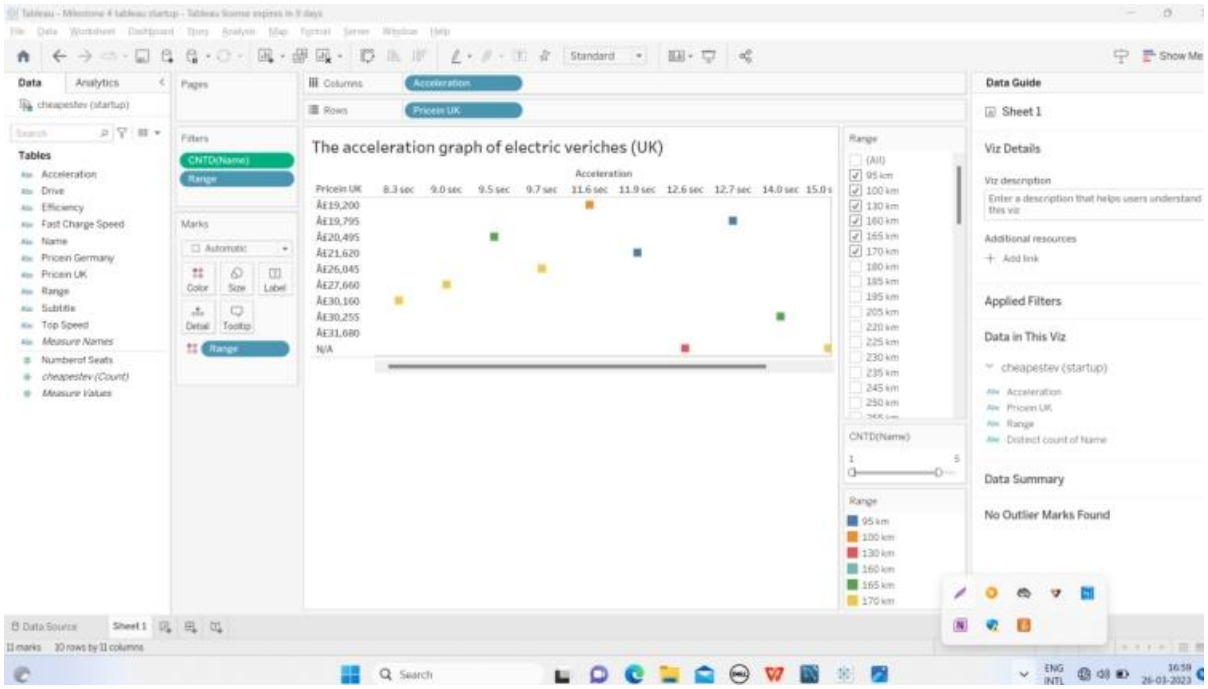
Data visualization is the process of creating graphical representations of data in order to help people
understand and explore the information. The goal of data visualization is to make complex data sets
more accessible, intuitive, and easier to interpret. By using visual elements such as charts, graphs,
and maps, data visualizations can help people quickly identify patterns, trends, and outliers in the
data.

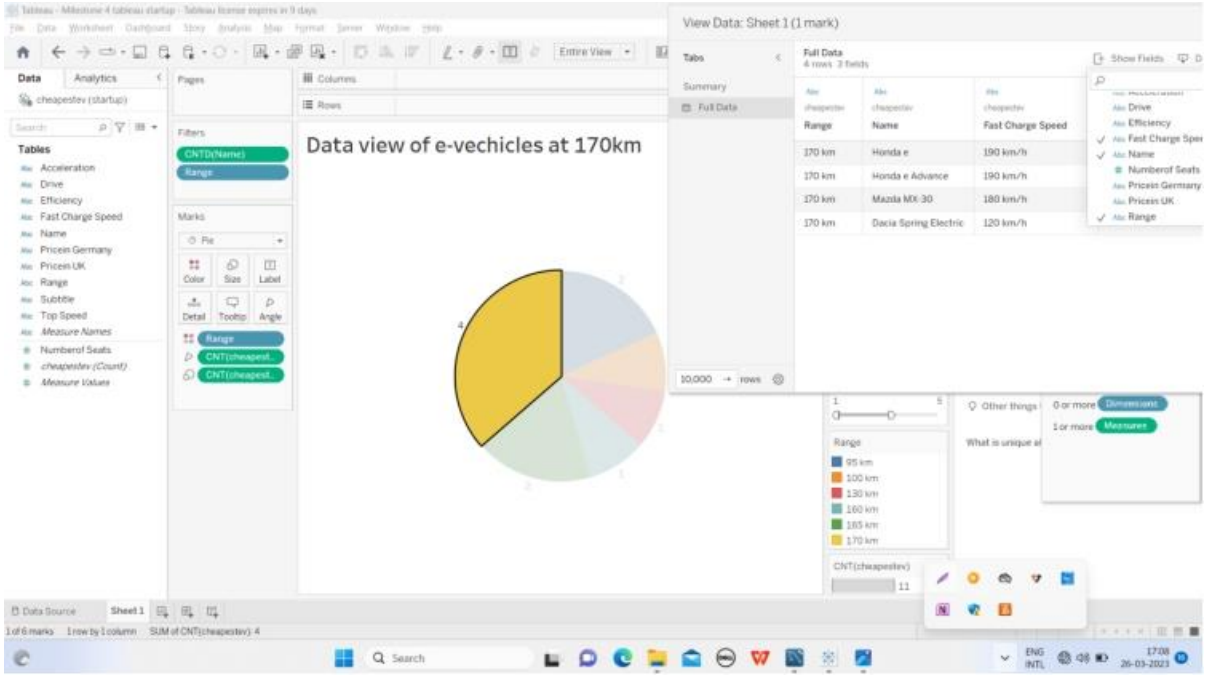
Activity 1: No of Unique Visualizations:

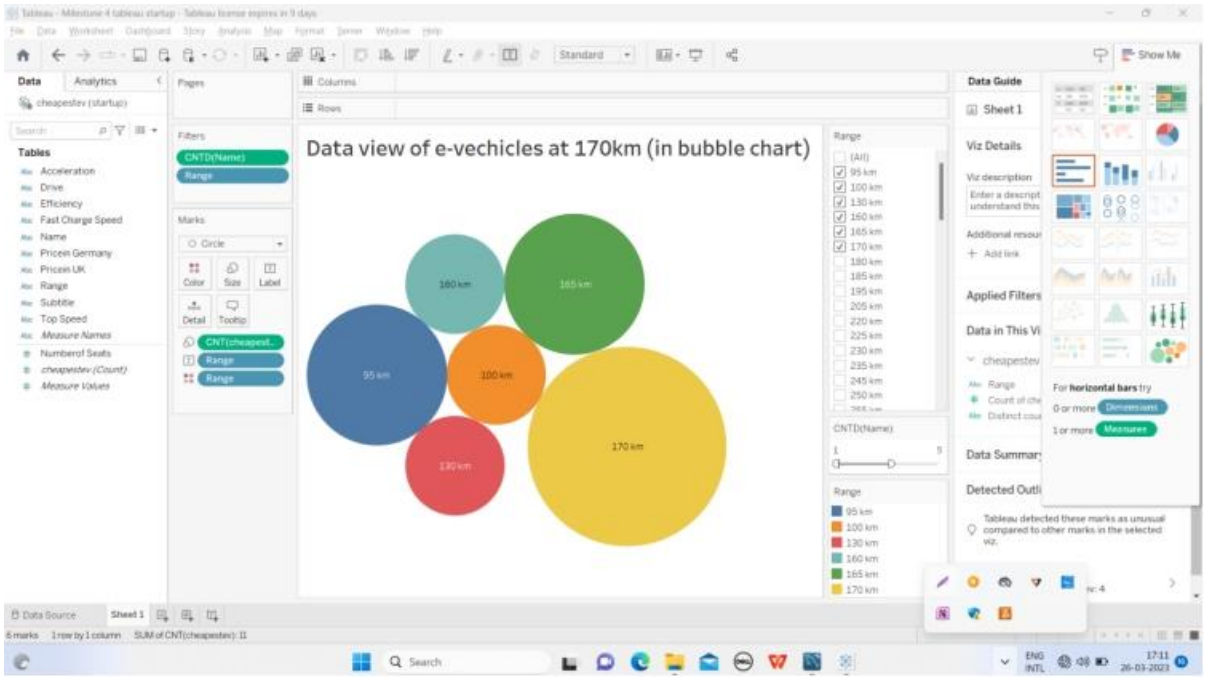
Various types of graphs, charts are created based on scales, prices (in UK and German), range, efficiency, number of seats and so on. They are given in the following nine pictures.

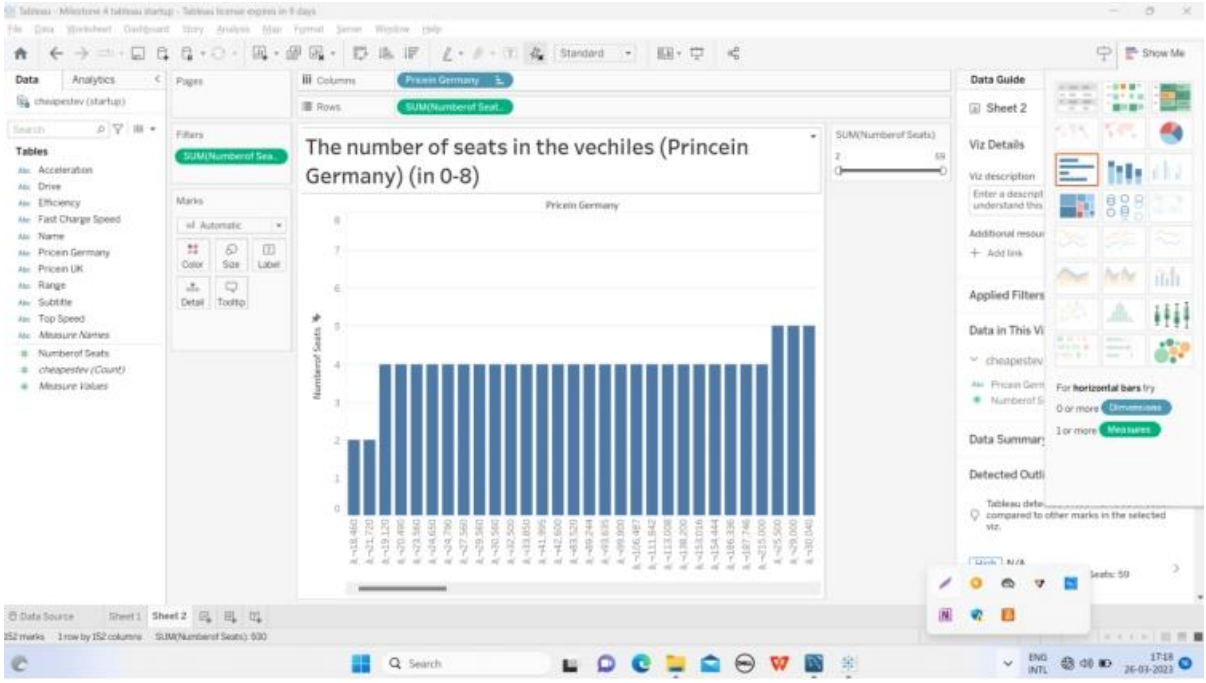


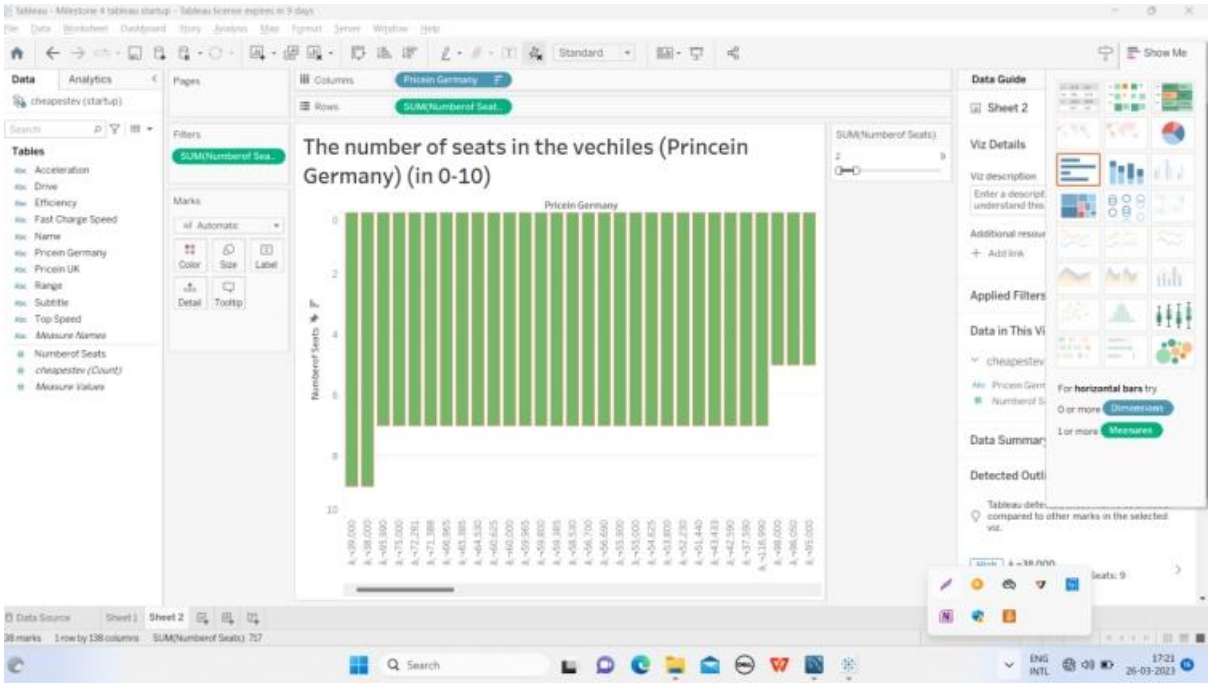

Sheet 1
Min. Pricein Germany
Distinct count of Name
Data
Analytics
Tables
Pages
Filters
Marks
Columns
Rows
Range
CNTD(Name)
Show Me

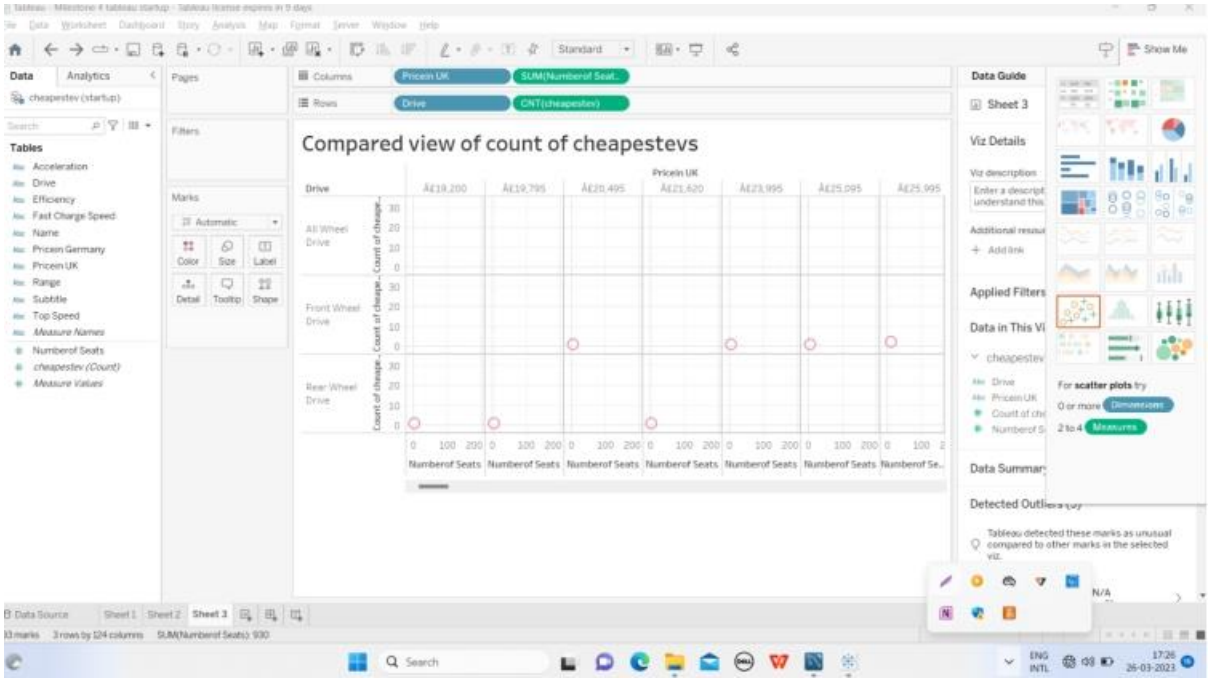

The acceleration graph of electric veriches (UK)
Acceleration
Pricein UK
8.3 sec
9.0 sec
9.5 sec
9.7 sec
11.6 sec
11.9 sec
12.6 sec
12.7 sec
14.0 sec
15.0 s
Â£19,200
Â£19,795
Â£20,495
Â£21,620
Â£26,045
Â£27,660
Â£30,160
Â£30,255
Â£31,680
N/A
Data Guide
Sheet 1
Viz Details
Applied Filters
Data in This Viz
Data Summary
No Outlier Marks Found

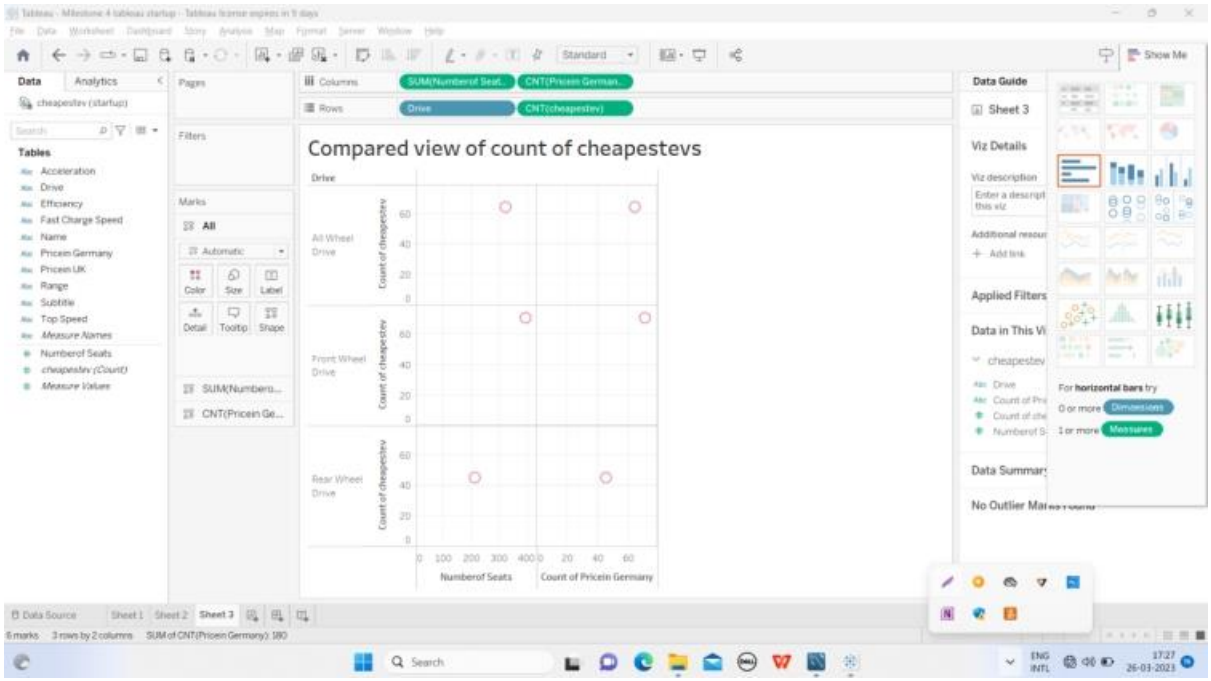

Data view of e-vechicles at 170km
View Data: Sheet 1 (1 mark)
Full Data
4 rows 3 fields
Range
Name
Fast Charge Speed
170 km
Honda e
190 km/h
170 km
Honda e Advance
190 km/h
170 km
Mazda MX-30
180 km/h
170 km
Dacia Spring Electric
120 km/h


Data view of e-vechicles at 170km (in bubble chart)
160 km
165 km
95 km
100 km
130 km
170 km


The number of seats in the vechiles (Princein Germany) (in 0-8)
Pricein Germany
Numberof Seats


The number of seats in the vechiles (Princein Germany) (in 0-10)
Princein Germany
Numberof Seats
Sheet 2


Compared view of count of cheapestevs
Princein UK
Drive
All Wheel Drive
Front Wheel Drive
Rear Wheel Drive
Numberof Seats
Sheet 3


Compared view of count of cheapestevs
Drive
All Wheel Drive
Front Wheel Drive
Rear Wheel Drive
Count of cheapestev
Numberof Seats
Count of Pricein Germany
Data
Analytics
Pages
Filters
Marks
Columns
Rows
Data Guide
Sheet 3
Viz Details
Applied Filters
Show Me

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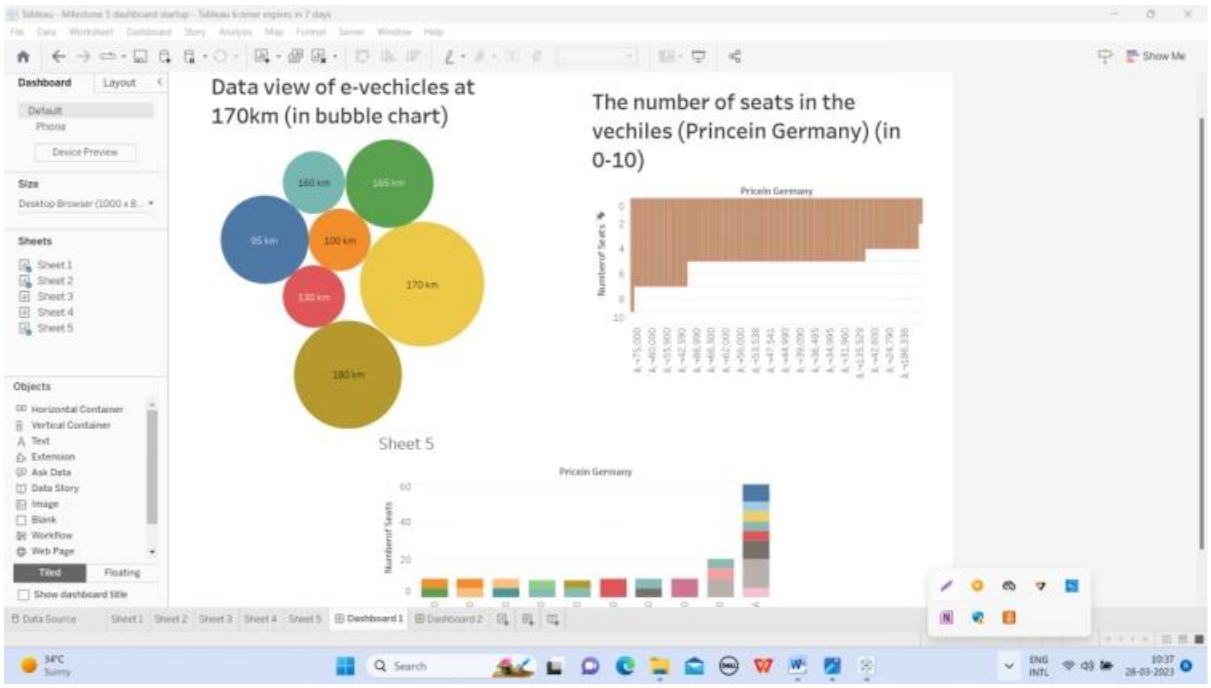
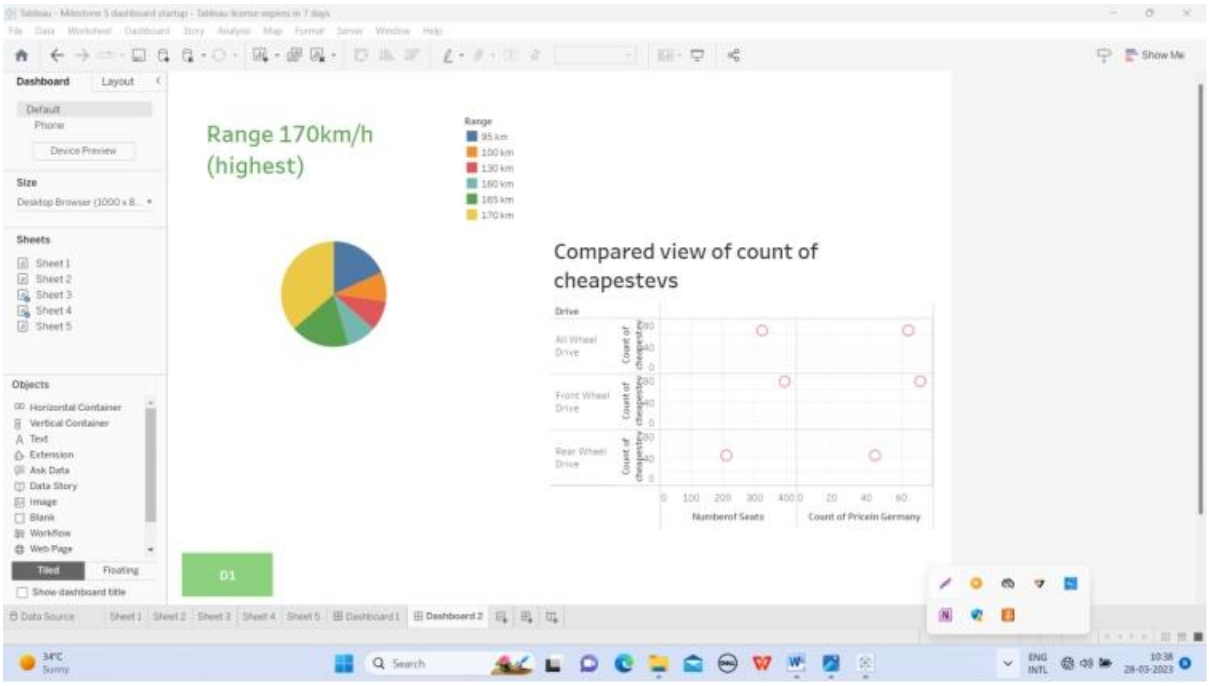
Milestone 5:
Creation of Dashboards

Milestone 5: Creation of Dashboards for startup vehicles

1. The summarized Dashboard for startup electric vehicles is created.



2. **Compared view of count of cheapest EVs and pie-chart of speed of EVs between 95 to 170 is created with navigation key D1.**


Range 170km/h
(highest)
Range
95 km
100 km
130 km
160 km
165 km
170 km
Compared view of count of
cheapestevs
Drive
All Wheel Drive
Front Wheel Drive
Rear Wheel Drive
Numberof Seats
Count of Pricein Germany
D1

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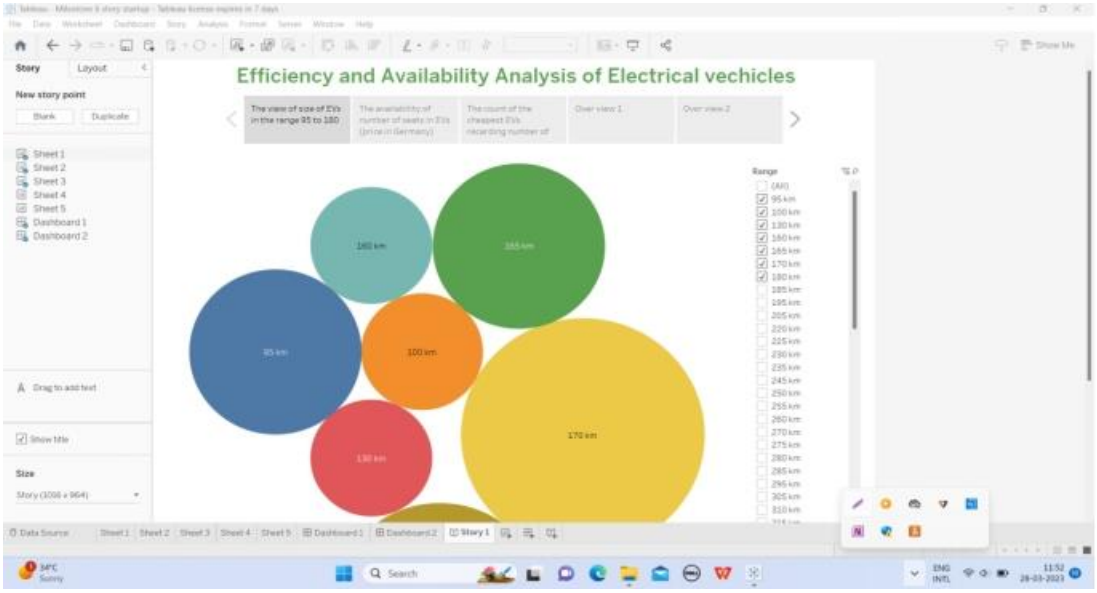
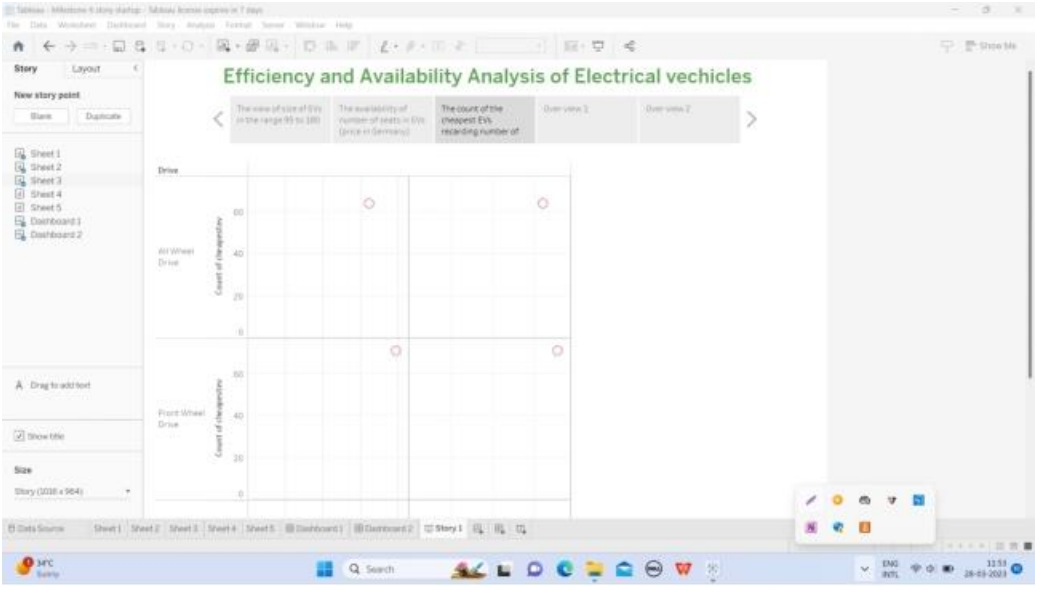
Milestone 6:
Creating story for World Population

Milestone 6: Creating the story board of startup EV(Electrical vehicle)s

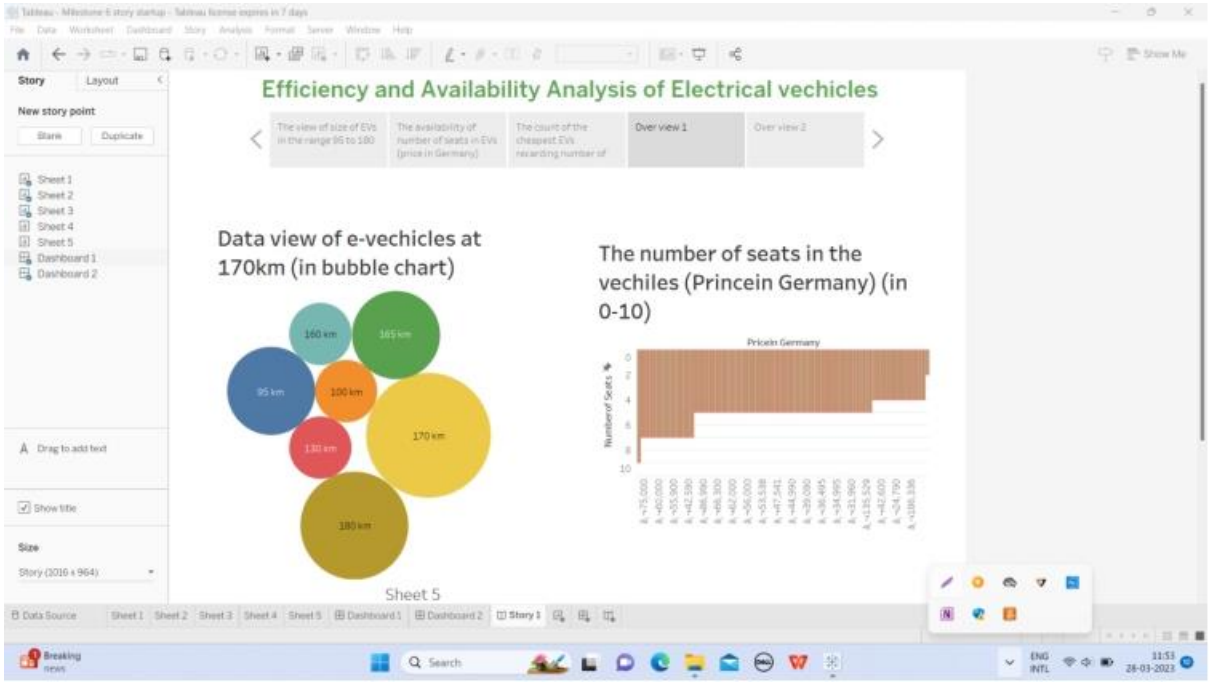
1.The chart of sizes of EVs in the range 95 to 180 is created.



2.The compared view of number of sheets of cheapest EVs on three types of drives.



3.Over view of analysis of EVs in Germany and UK.



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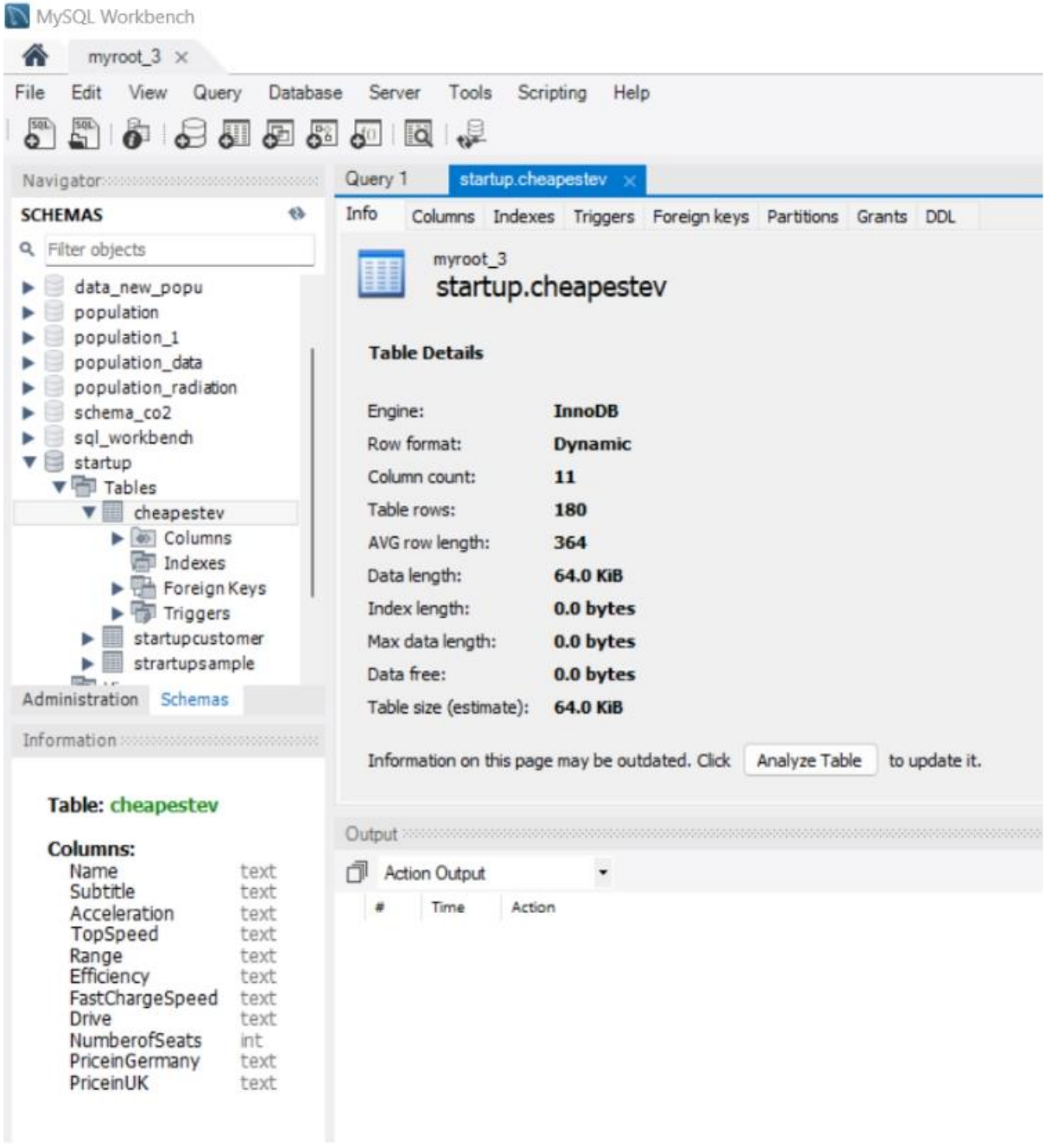
Milestone 7: Performance Testing for population

Milestone 7: Performance Testing for Startup of Electrical vehicles

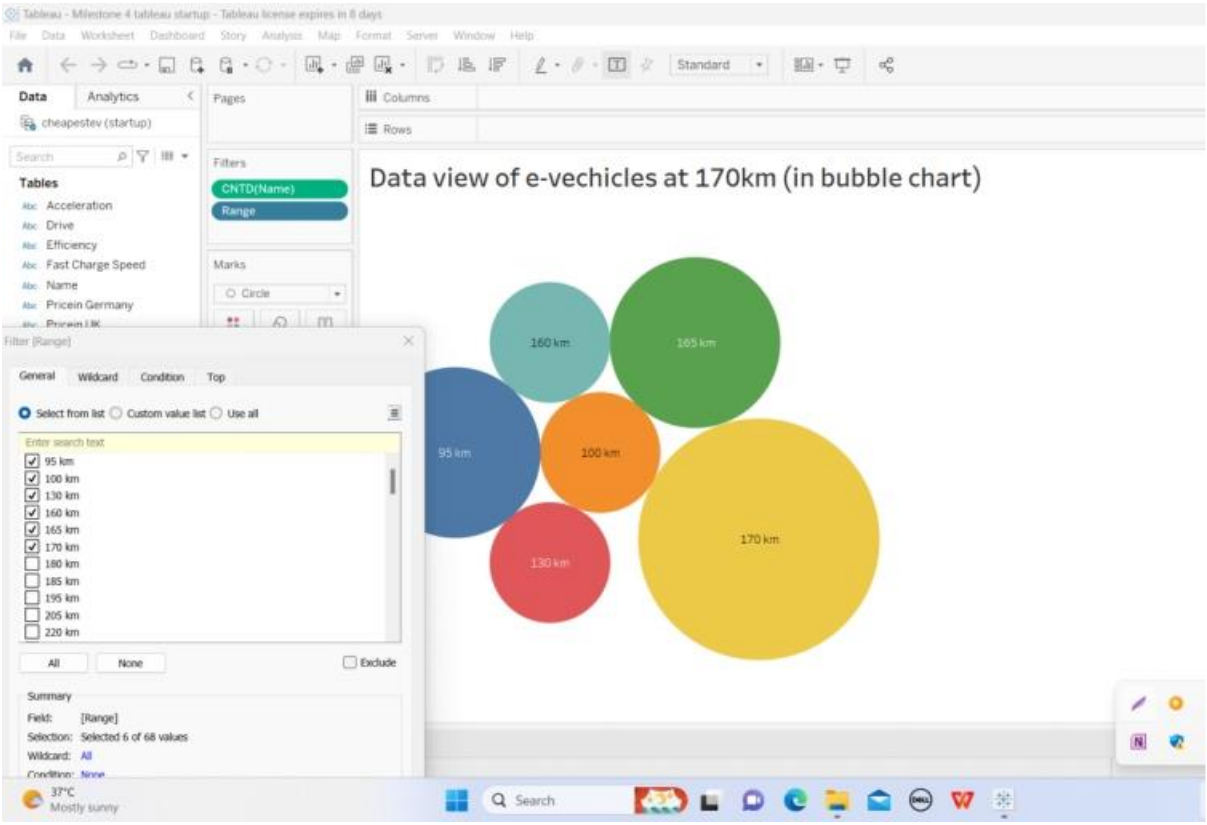
Activity 1: Amount of Data Rendered to DB

Solution 1: The database schema for startup of EVs with columns and indexes are stored.



Solution 2:

The usage of filters in Startup of EVs data is given in the following picture. Here we used the filters option to select the range 95 to 170 km/h.



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