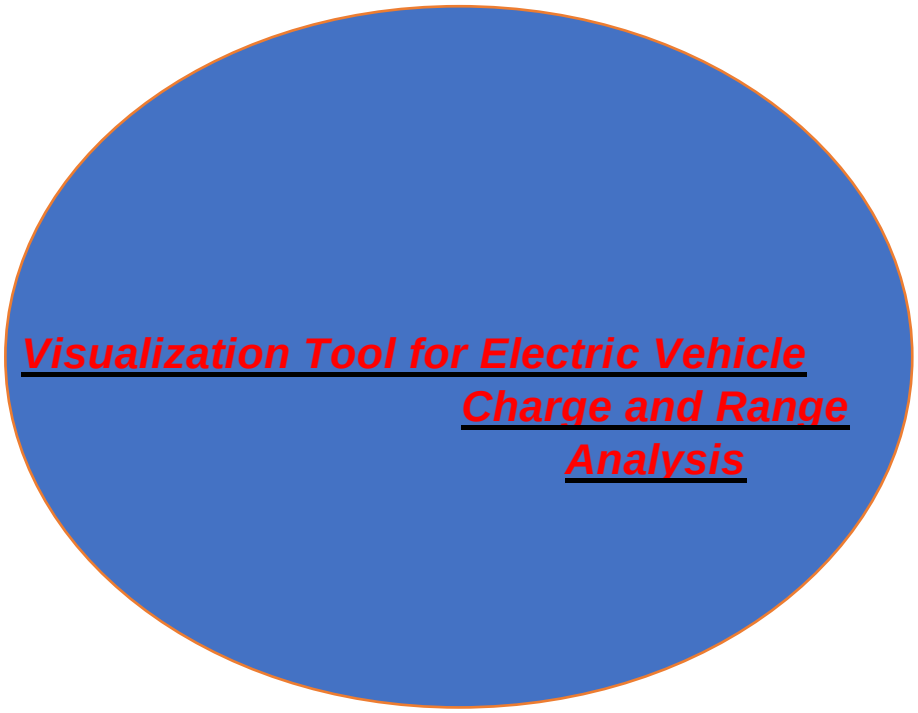

Visualization Tool for Electric Vehicle
Charge and Range
Analysis

Milestone 1: Define Problem / Problem Understanding

Activity 1: Specify the business problem

A vehicle that can powered by an electric motor that draws electricity from a battery and is capable of being charged from an electric source and have an electric motor instead of an internal combustion engine.

The Electric Vehicle(EV) is not new, but it has been receiving significantly more attention in recent years. Advances in both EV analytics and battery technologies have led to increased automotive market share. However, this growth is not attributed to hardware alone. The modern mechatronic vehicle marries electrical storage and propulsion systems with electronic sensors, controls, and actuators, integrated closely with software, secure data analysis, to form a comprehensive transportation solution. Advances in all the areas have contributed to the overall rise of EV's, but the common thread that runs through all these elements is data analytics.

The new EV's are combined Electrical storage and propulsion systems with electronic sensors, controls, and actuators, integrated closely with software, secure data transfer to form a comprehensive transportation solution.

Activity 2: Business requirements

The business requirements for analyzing the performance and efficiency of Electric cars include identifying KPIs, comparing performance across different parameters and brands also, identifying patterns and trends over time, identifying affecting factors, creating interactive dashboards and reports, identifying areas for improvement, making data-driven decisions, comparing to industry average and creating forecasting models for future performance. The ultimate goal is to gain insights and improve performance through data visualization techniques.

Activity 3: Literature Survey (Student Will Write)

A literature survey is a method of researching existing literature and studies related to a specific topic. In the context of analyzing the performance and efficiency of electric vehicles, a literature survey would involve reviewing studies and articles that have been published on the topic of hotel performance and efficiency, as well as studies specific to electric vehicles. The literature survey would include sources such as academic journals, industry reports, and online articles. It would aim to identify key performance indicators (KPIs) and metrics that are commonly used to measure hotel performance and efficiency, as well as any best practices or strategies that have been identified for improving performance. The literature survey would also explore any existing research on electric vehicles specifically, and would aim to identify any unique challenges or opportunities that the electric vehicles faces in terms of performance and efficiency.

Activity 4: Social or Business Impact.

Social Impact: By solving or helping to solve the biggest issue in EV market. More people will understand and but the EV instead of ICE's.

Business Model/Impact: This project can provide the insights for the Car/Battery Manufacturers and it can also provide the insights for the people who are using the EV or Thinking to enter in EV Market.

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, and evaluate outcomes and generate insights from the data.

Activity 1: Collect the dataset

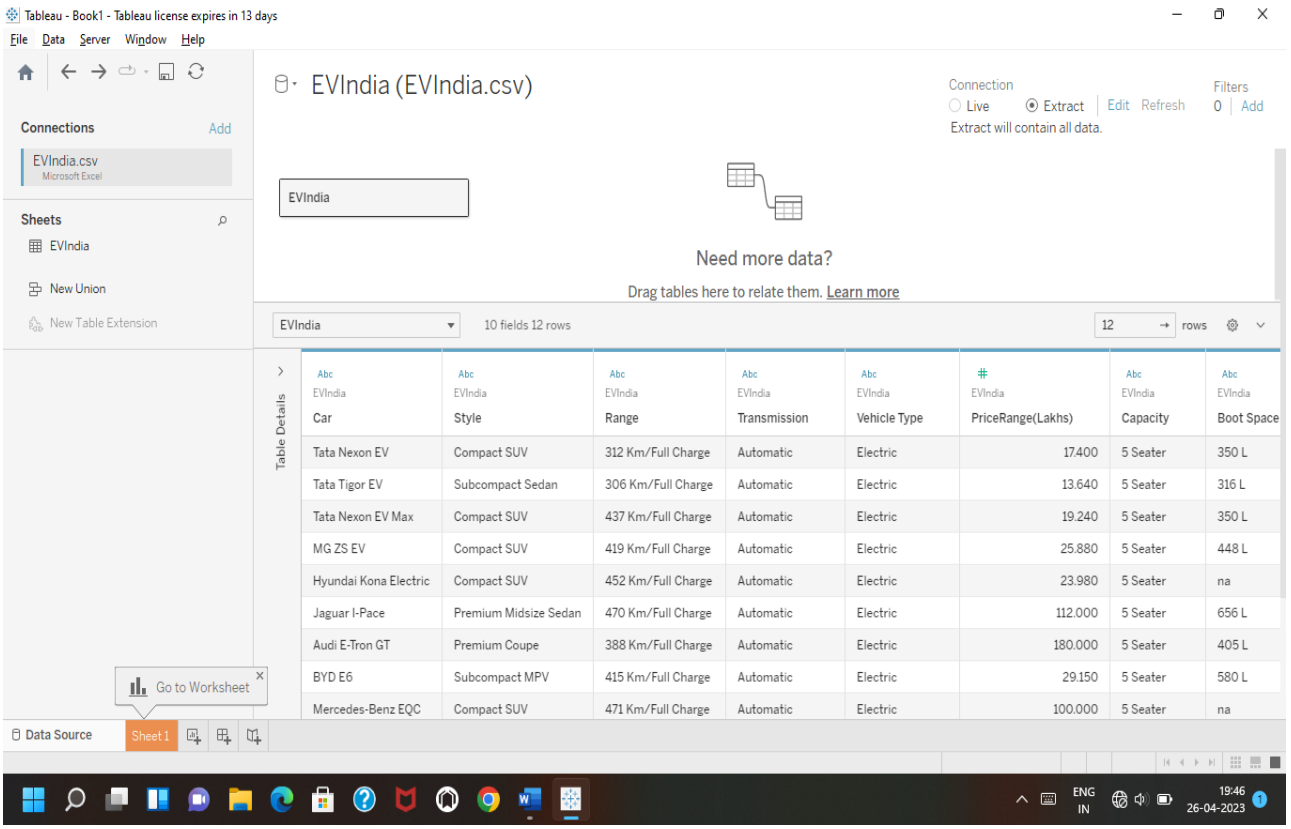
Activity 1.1: Understand the data

Data contains all the meta information regarding the columns described in the CSV files. we have provided 4 CSV files:

1. EVIndia
2. Electric_vehicle_charging_station_list
3. ElectricCarData_Clean
4. Cheapestelectriccars - EVDatabase

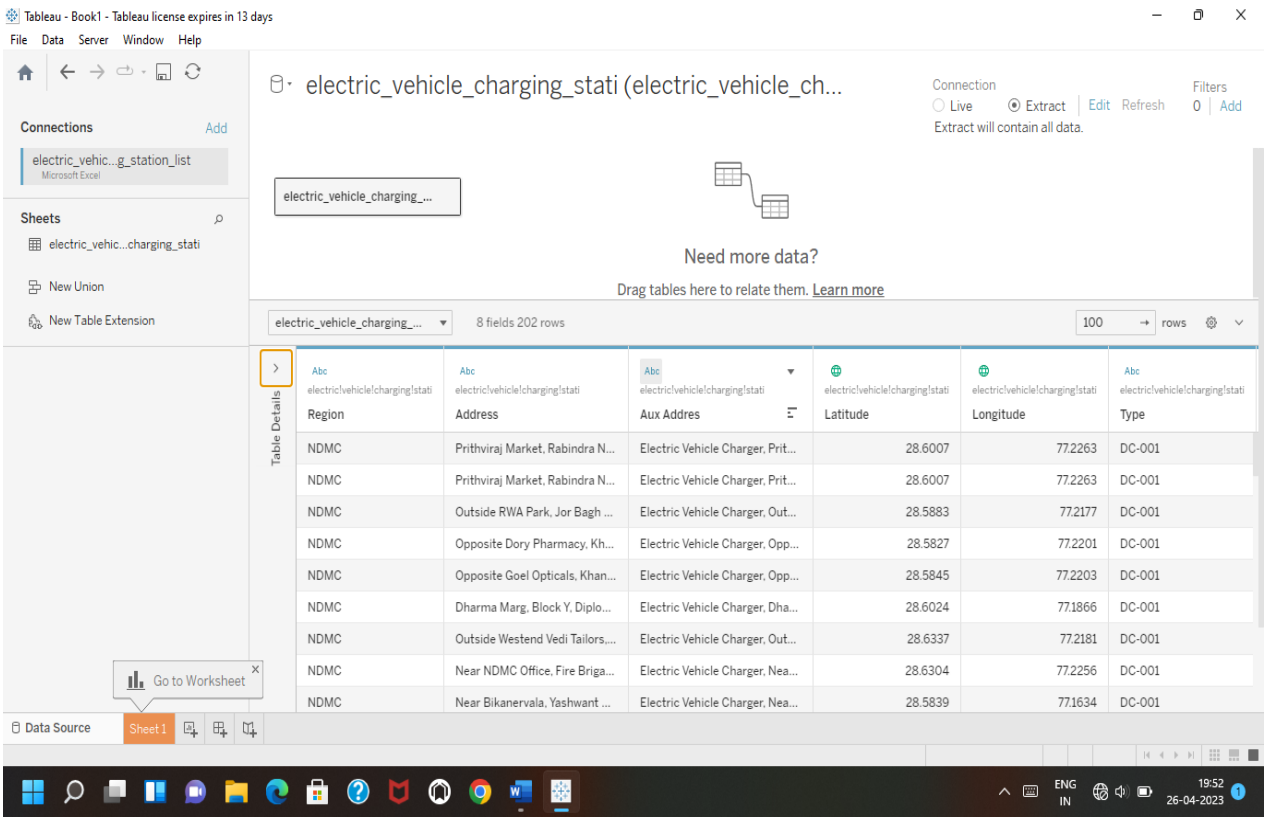
Column Description for EVIndia :

1. Car - Car Brand name and model
2. Style Range - Style range of car
3. Transmission- Transmission type
4. VehicleType – Type of vehicle
5. PriceRange(Lakhs) - Price Range in Lakhs
6. Capacity - Capacity of car
7. BootSpace – Bootspace of the car
8. BaseModel – Base model name
9. TopModel – Top model name



Column Description for Electric_vehicle_charging_station_list:

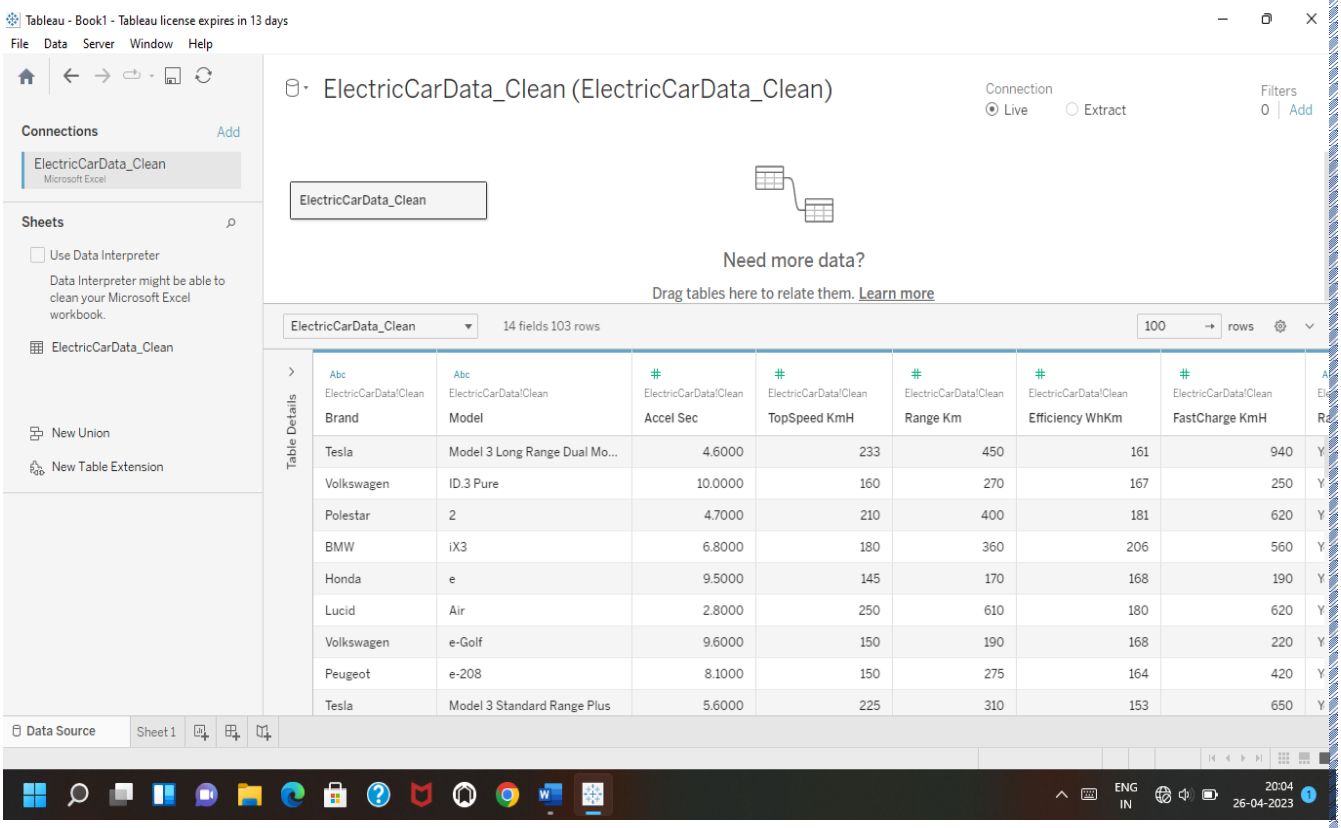
1. region: This column represents the region of the charging station.
2. address: This column represents the address of the charging station.
3. aux address: This column represents the auxiliary address of the charging station.
4. latitude: This column represents the latitude of the charging station.
5. longitude: This column represents the longitude of the charging station
6. type: This column represents the type of the charging station.
7. power: This column represents the power of the charging station.
8. service: This column represents the type of service at the charging station.



Column Description for ElectricCarData_Clean:

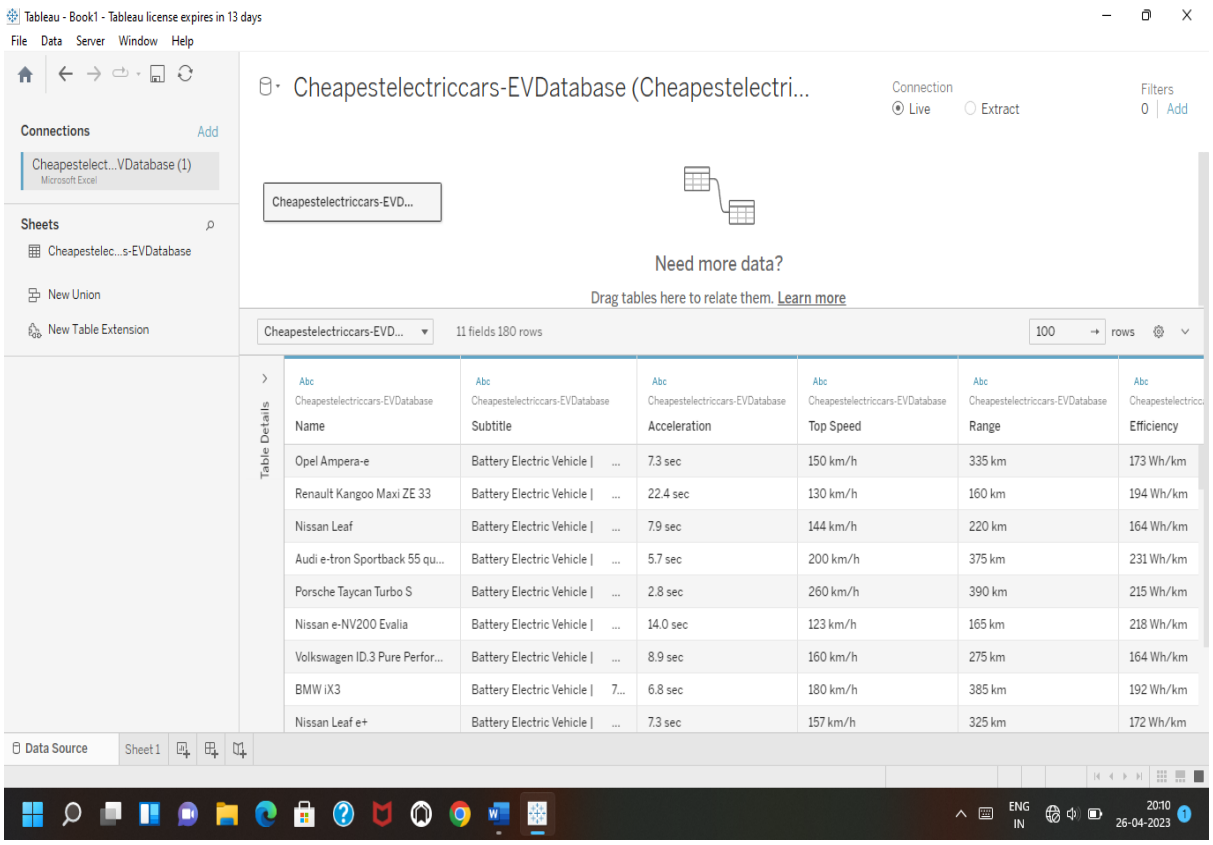
1. Brand

2. Model
3. AccelSec
4. TopSpeed_KmH
5. Range_Km
6. Efficiency_WhKm
7. FastCharge_KmH
8. RapidCharge
9. PowerTrain
10. PlugType
11. BodyStyle
12. Segment
13. Seats
14. PriceEuro



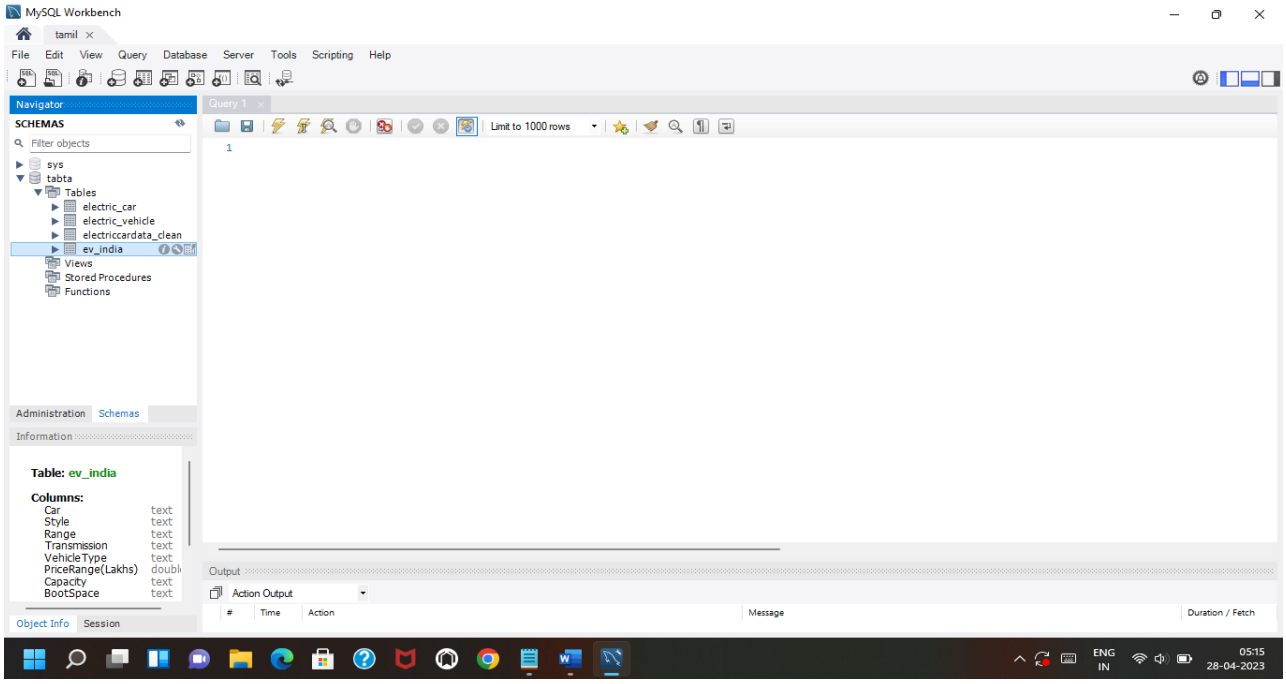
Column Description for Cheapestelectriccars-EVDatabase:

1. Name
2. Subtitle
3. Acceleration
4. TopSpeed
5. Range
6. Efficiency
7. FastChargeSpeed
8. Drive
9. NumberofSeats
10. PriceinGermany
11. PriceinUK



Activity 2: Storing Data in DB & Perform SQL Operations

Database Creation: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electric_vehicle
electriccardata_clean
ev_india
Views
Stored Procedures
Functions
Administration Schemas
Information
Table: ev_india
Columns:
Car text
Style text
Range text
Transmission text
VehicleType text
PriceRange(Lakhs) doubl
Capacity text
BootSpace text
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Output
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Time Action Message Duration / Fetch
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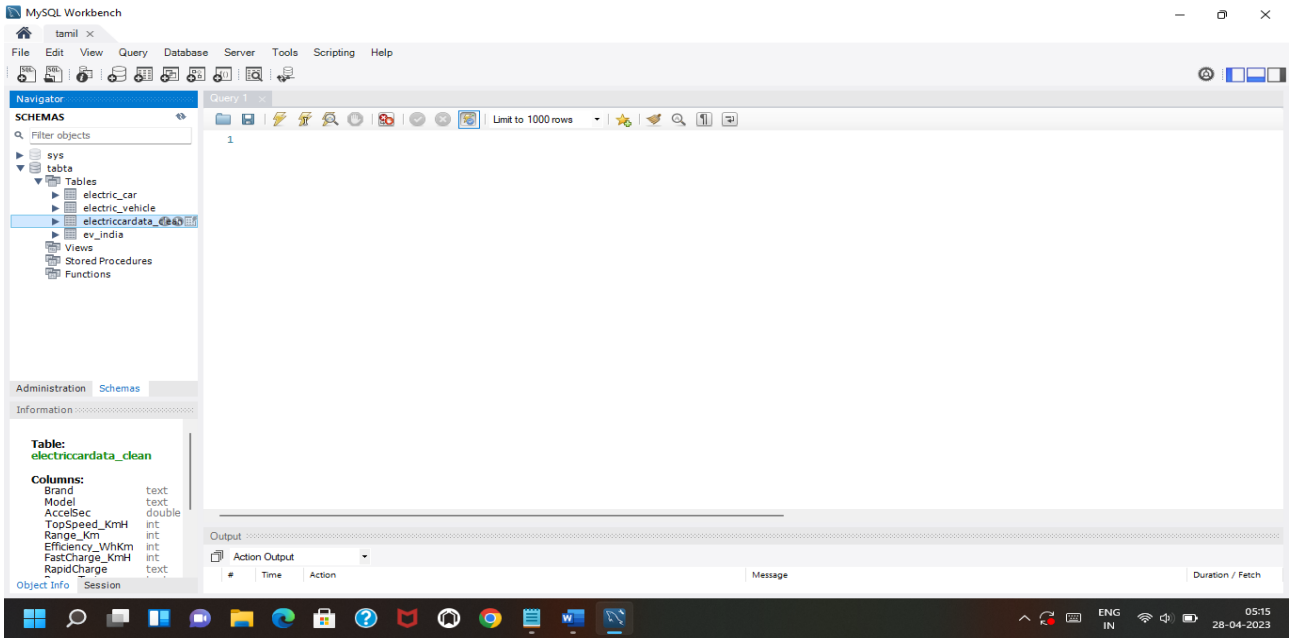
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electric_car
electric_vehicle
electriccardata_clean
ev_india
Views
Stored Procedures
Functions
Administration Schemas
Information
Table:
electriccardata_clean
Columns:
Brand text
Model text
AccelSec double
TopSpeed_KmH int
Range_Km int
Efficiency_WhKm int
FastCharge_KmH int
RapidCharge text
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Action Output
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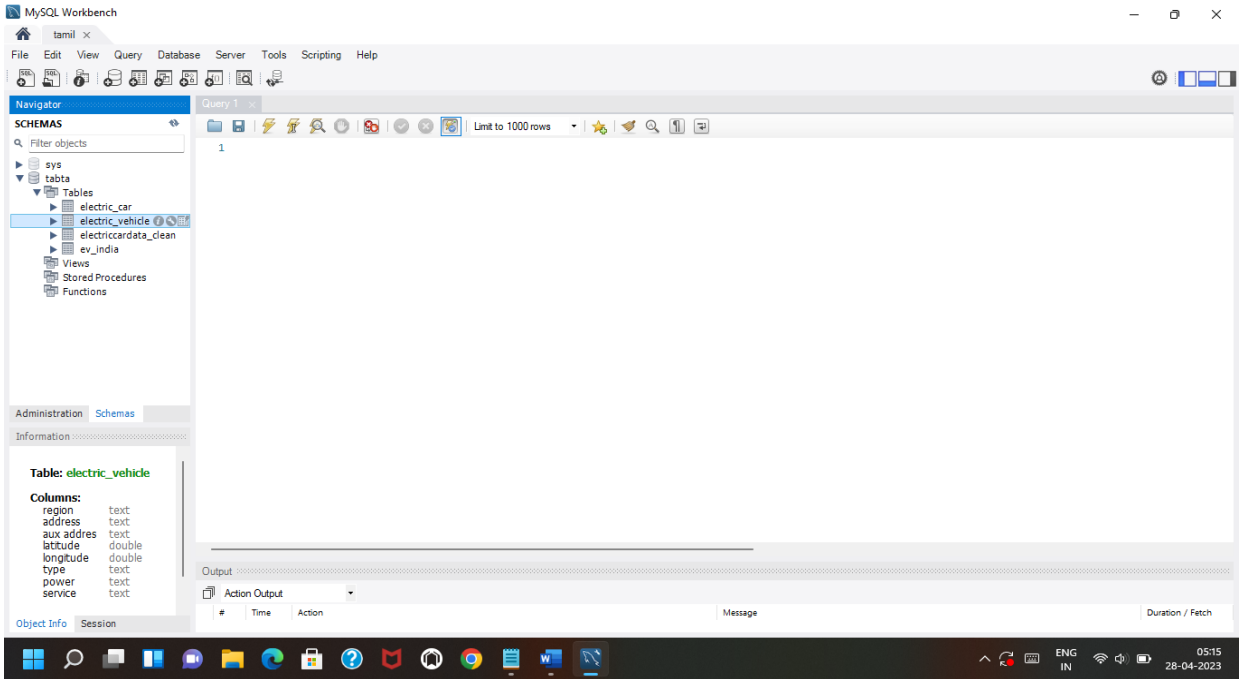
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Functions
Administration Schemas
Information
Table: electric_vehicle
Columns:
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address text
aux addres text
latitude double
longitude double
type text
power text
service text
Object Info Session
Query 1
Limit to 1000 rows
Output
Action Output
Time Action Message Duration / Fetch
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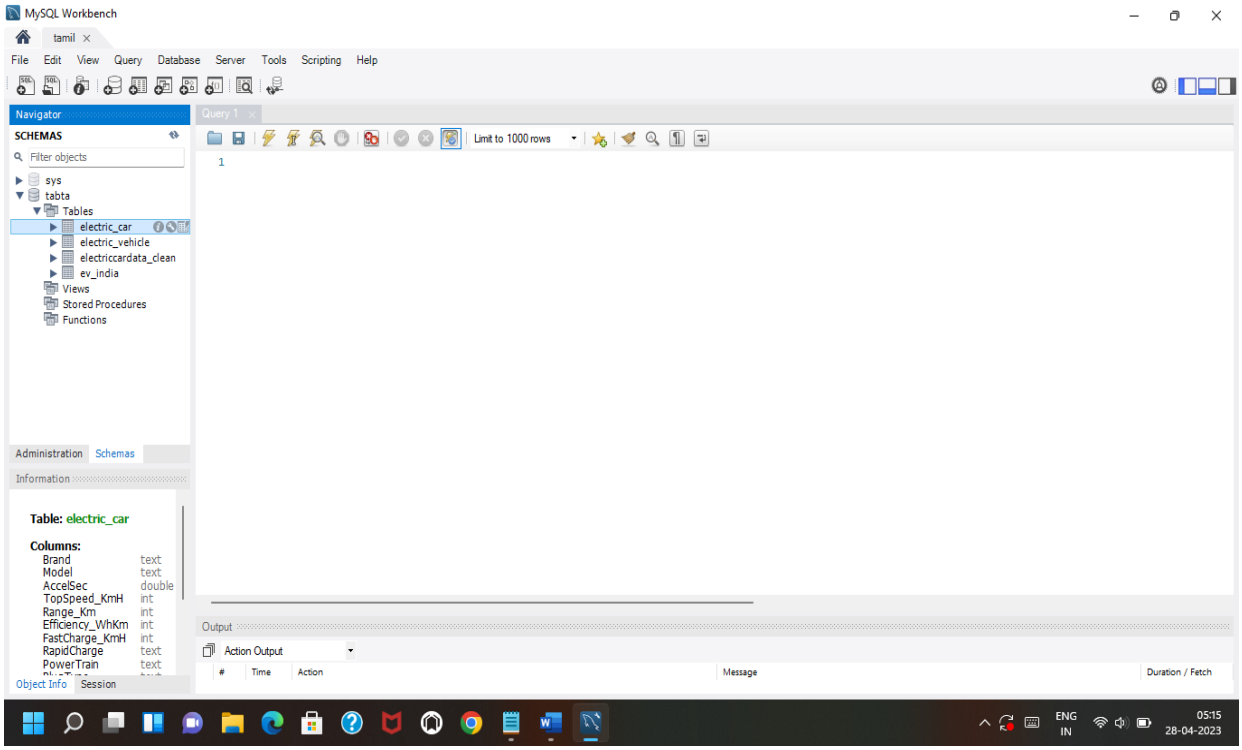
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File Edit View Query Database Server Tools Scripting Help
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Views
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Functions
Administration Schemas
Information
Table: electric_car
Columns:
Brand text
Model text
AccelSec double
TopSpeed_KmH int
Range_Km int
Efficiency_WhKm int
FastCharge_KmH int
RapidCharge text
PowerTrain text
Object Info Session
Query 1
Limit to 1000 rows
Output
Action Output
Time Action Message Duration / Fetch
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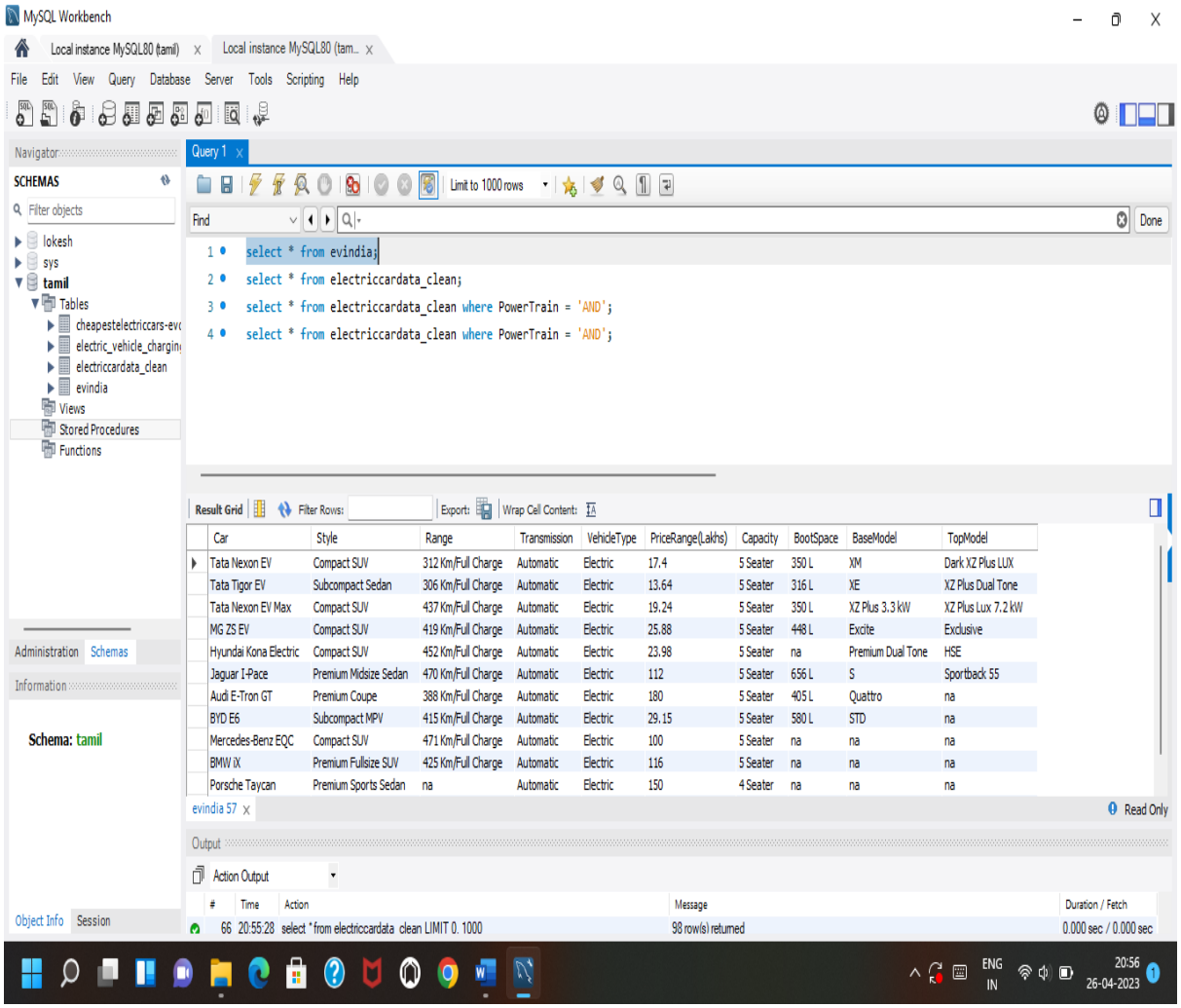
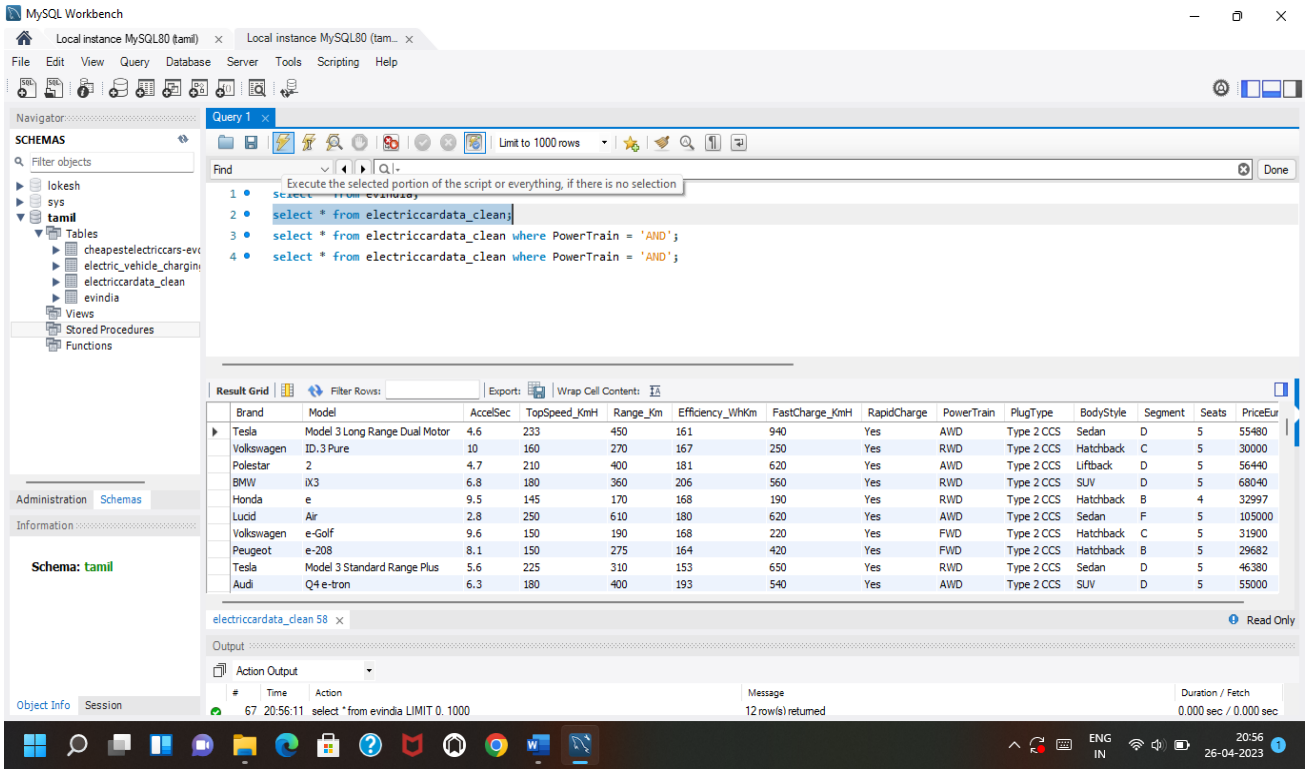
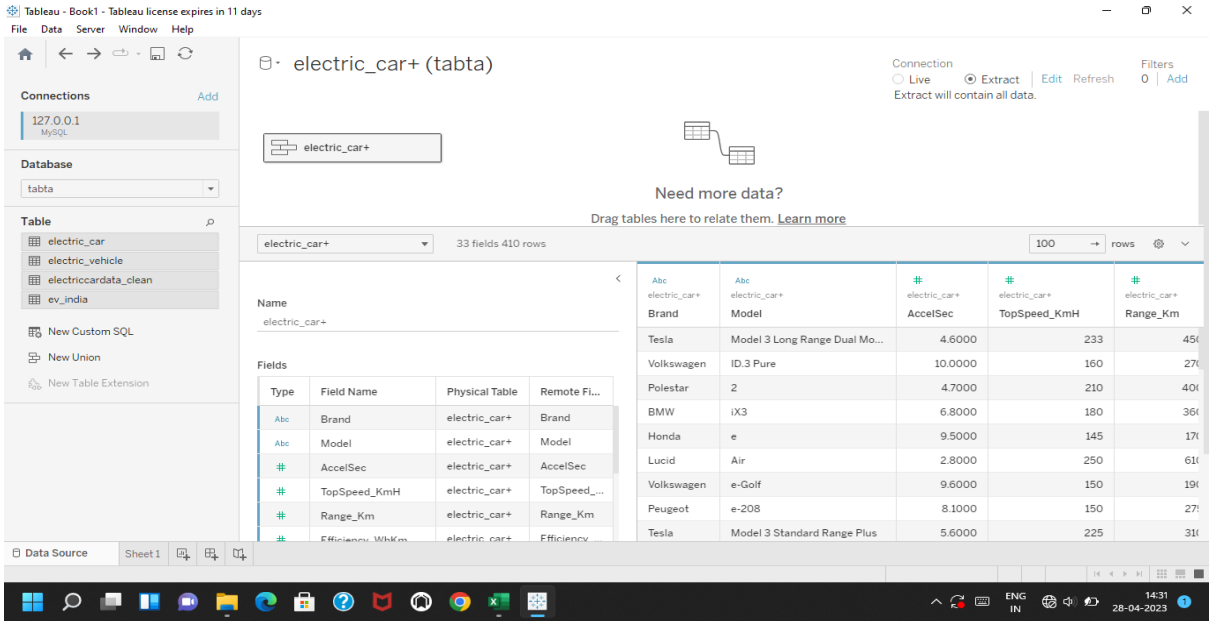
Basic SQL Operations





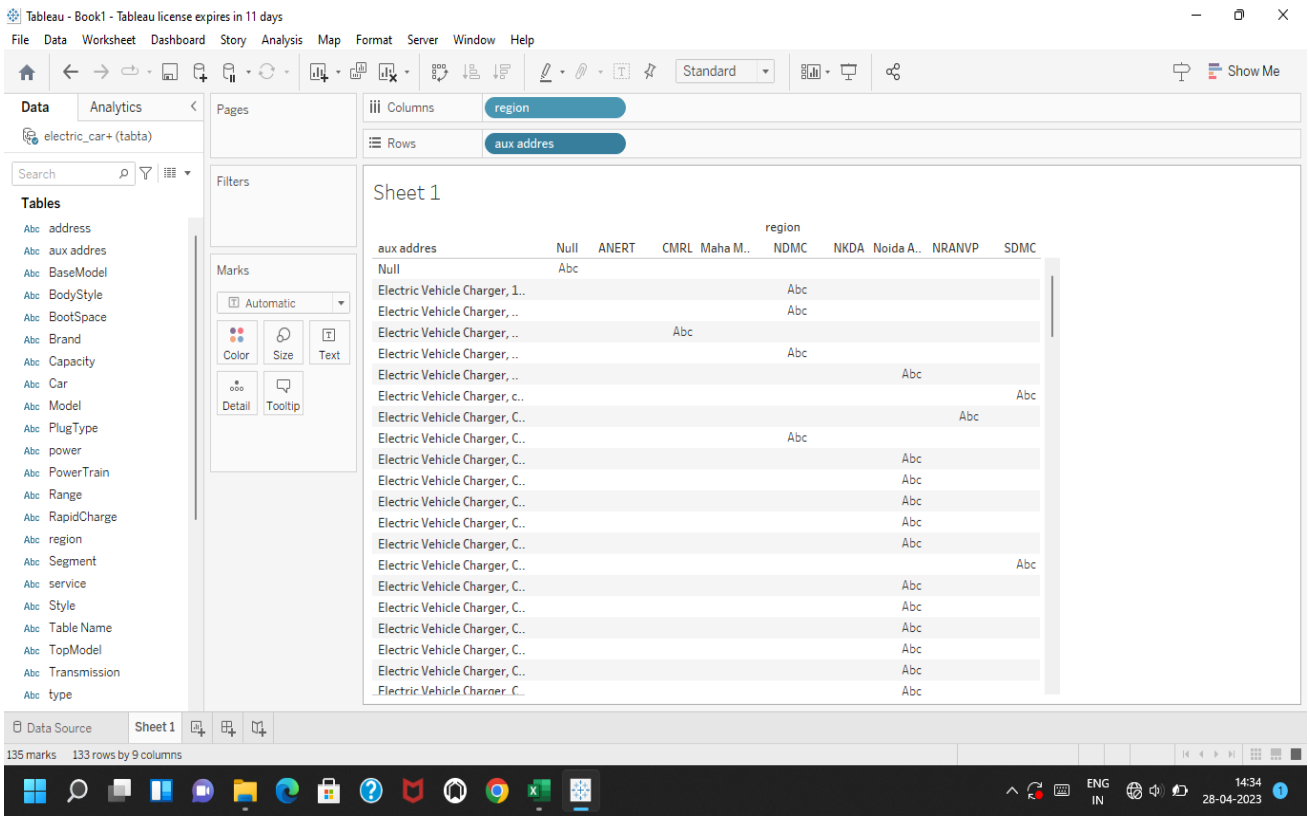
Activity 3: Connect DB with Tableau



Milestone 3: Data Preparation

Activity 1: Prepare the Data for Visualization

Preparing the data for visualization involves cleaning the data to remove irrelevant or missingdata, transforming the data into a format that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific subsets of data, preparing the data for visualization software, and ensuring the data is accurate and complete. This process helps to make the data easily understandable and ready for creating visualizations to gain insights into the performance and efficiency.

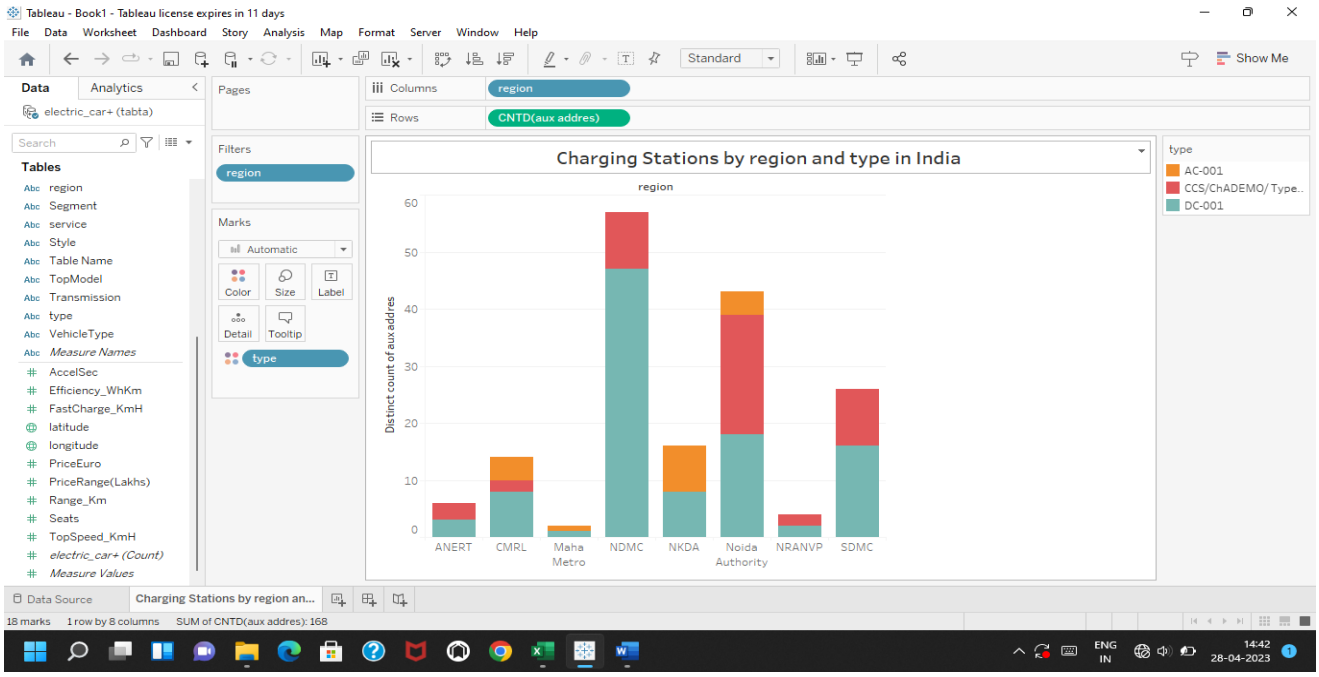


Milestone 4: Data Visualization

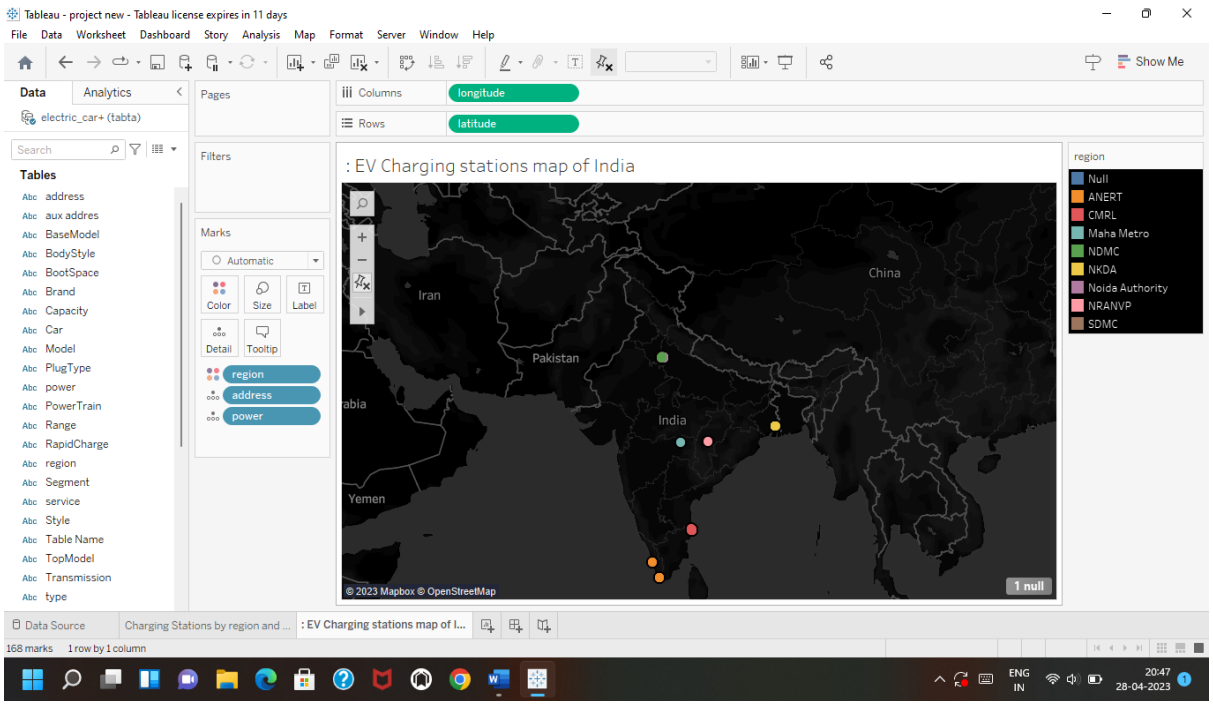
Data visualization is the process of creating graphical representations of data in order to help people understand and explore the information. The goal of data visualization is to make complex data setsmore accessible, intuitive, and easier to interpret. By using visual elements such as charts, graphs,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

Activity 1: No of Unique Visualizations

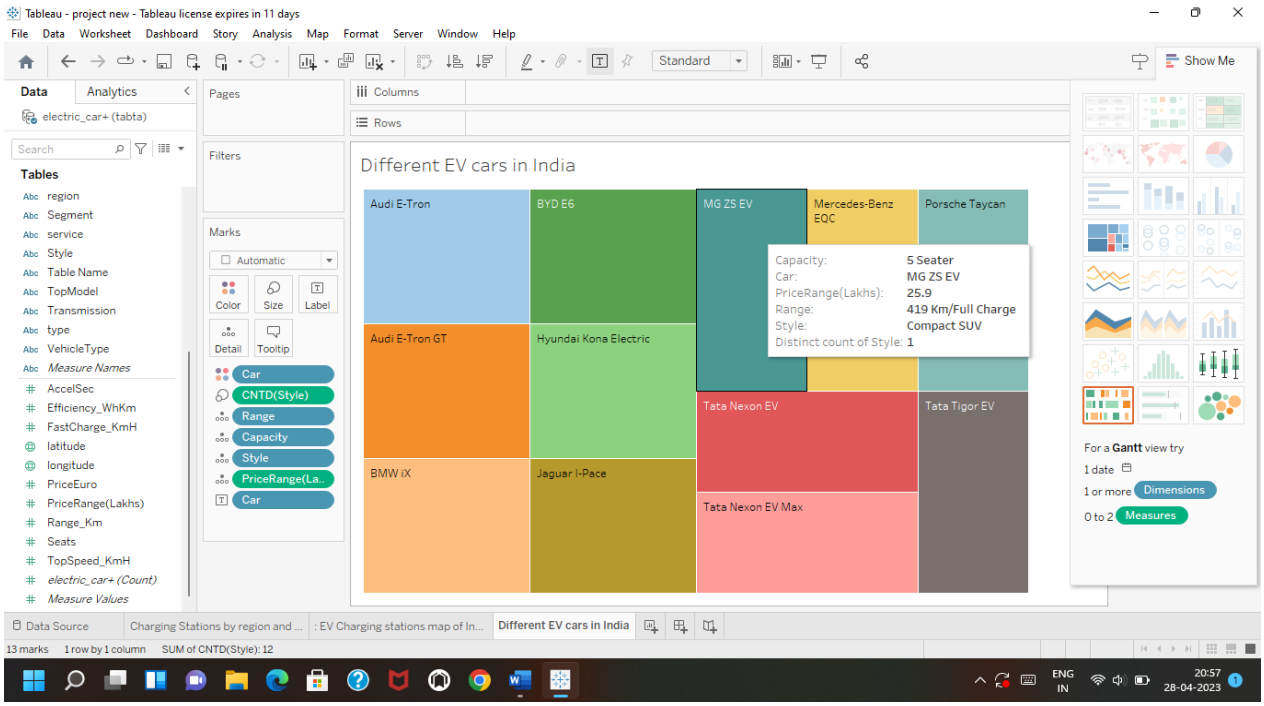
Activity 1.1: Charging Stations by region and type in India



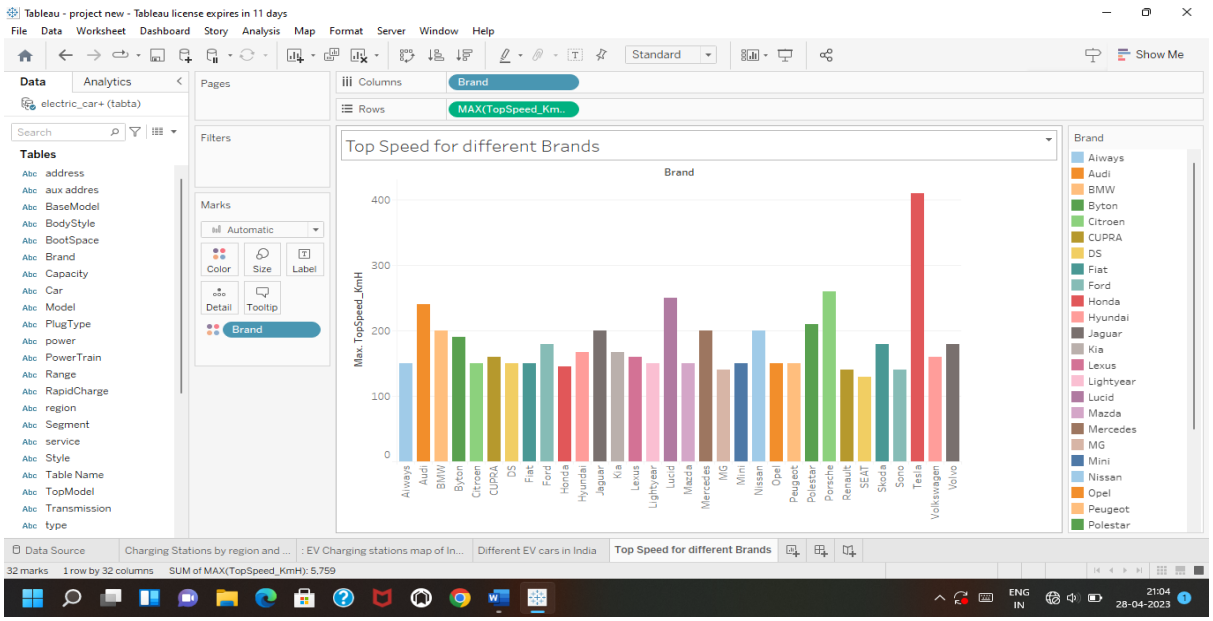
Activity 1.2: EV Charging stations map of India



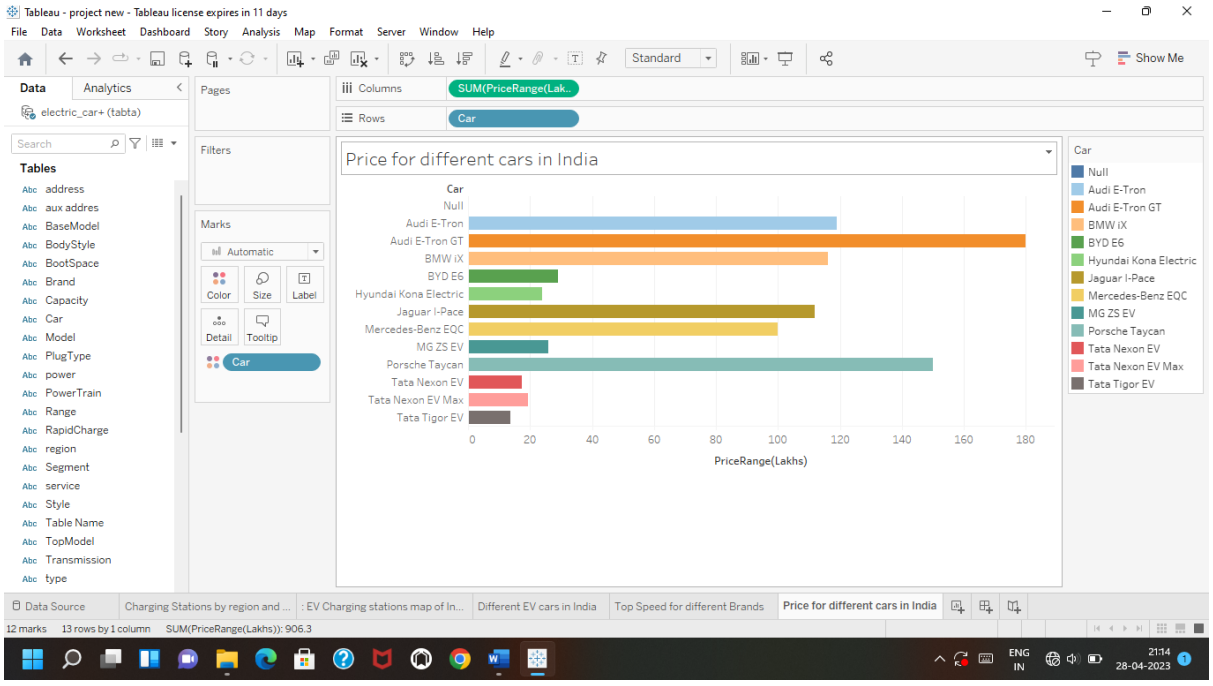
Activity 1.3: Different EV cars in India



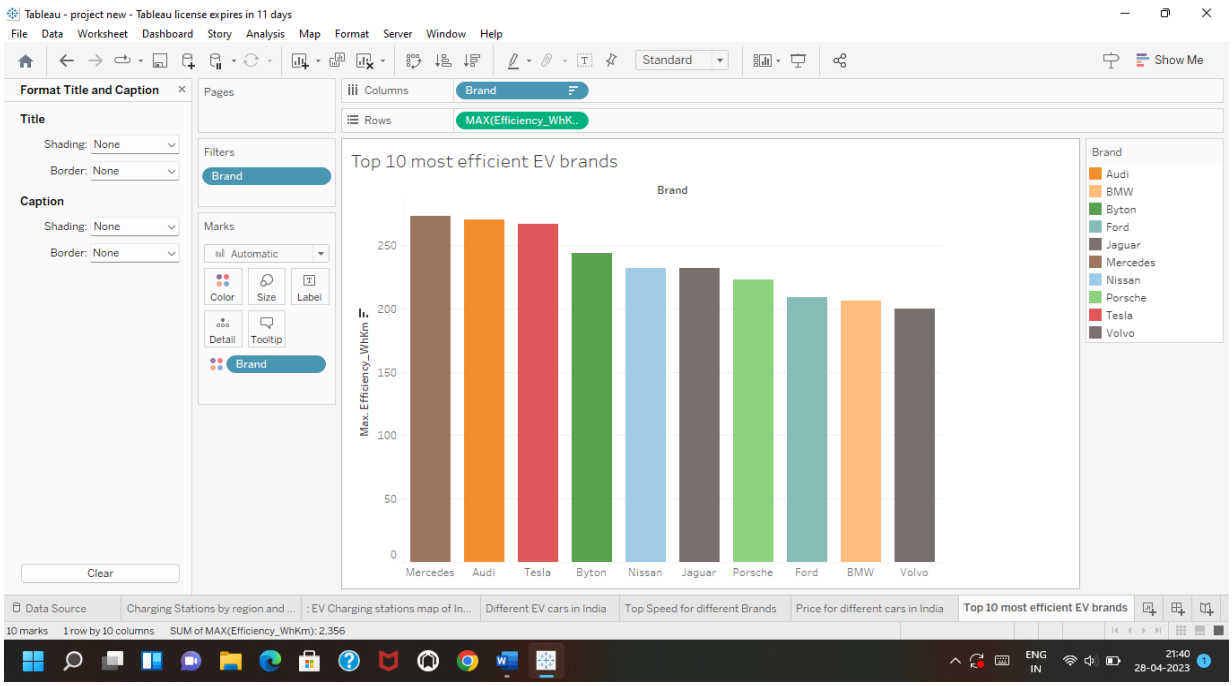
Activity 1.4: Top speed for different Brands



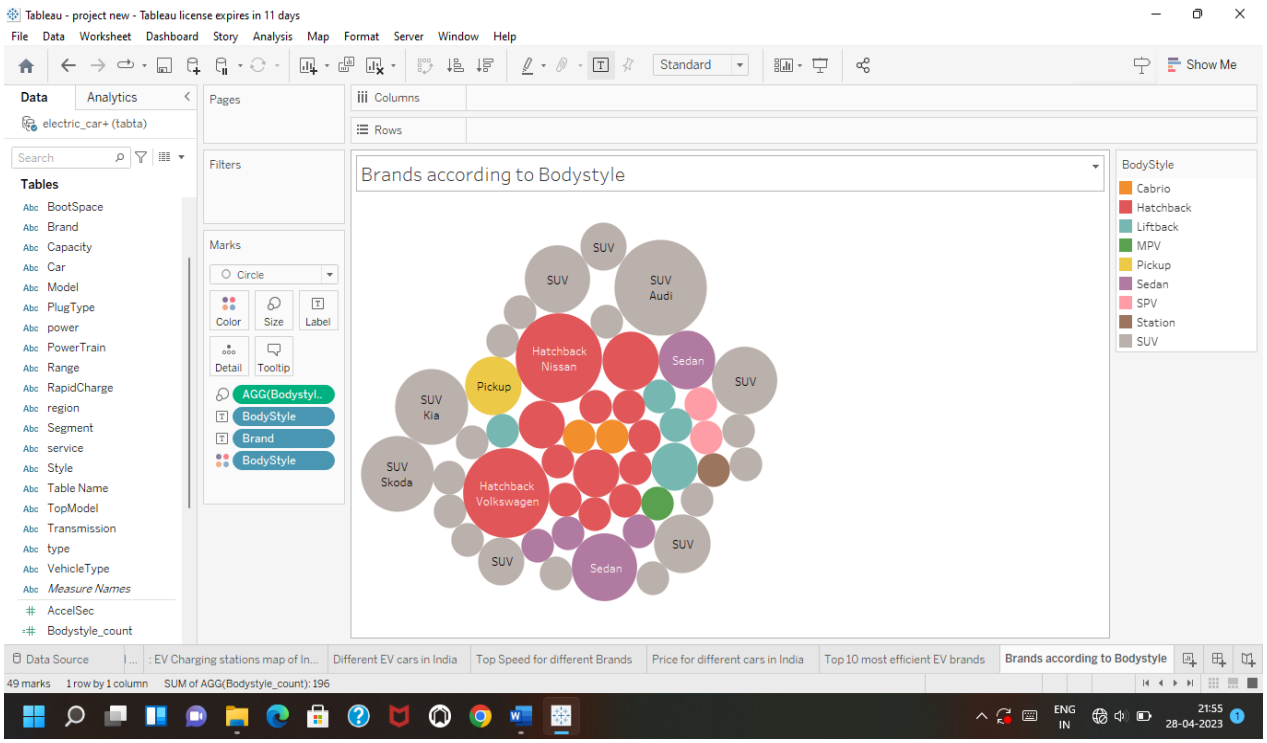
Activity 1.5: Price for different cars in India



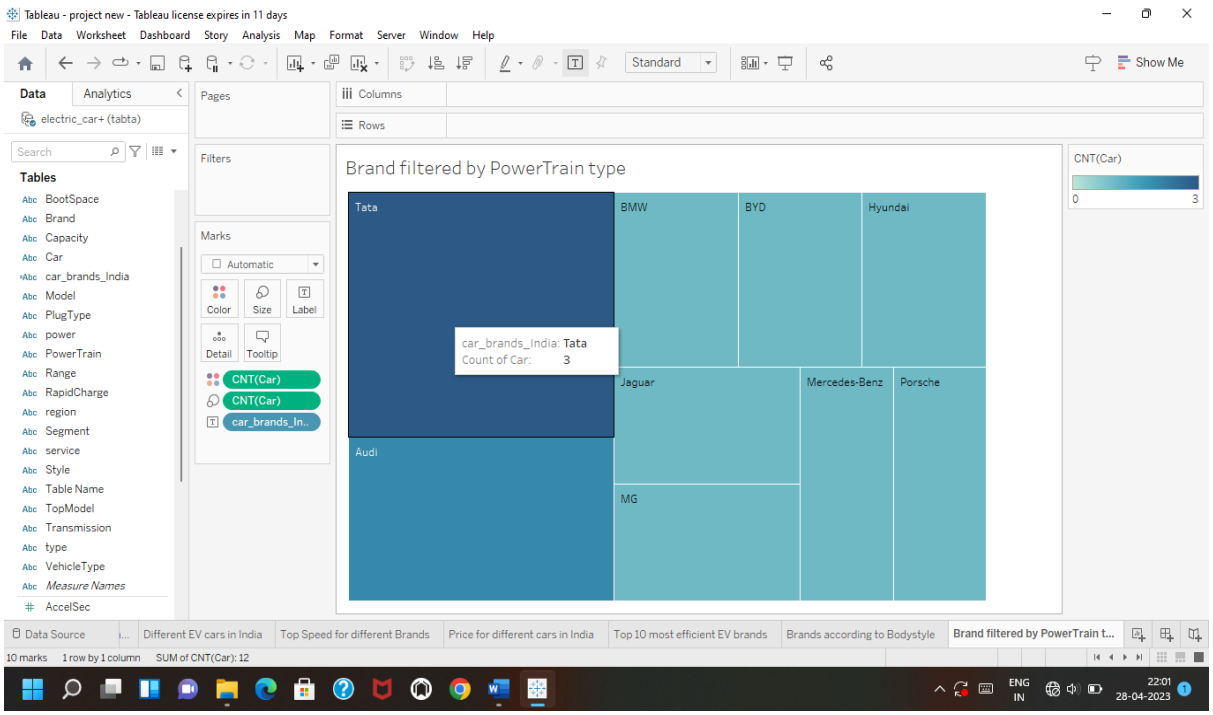
Activity 1.6: Top 10 most efficient EV Brands



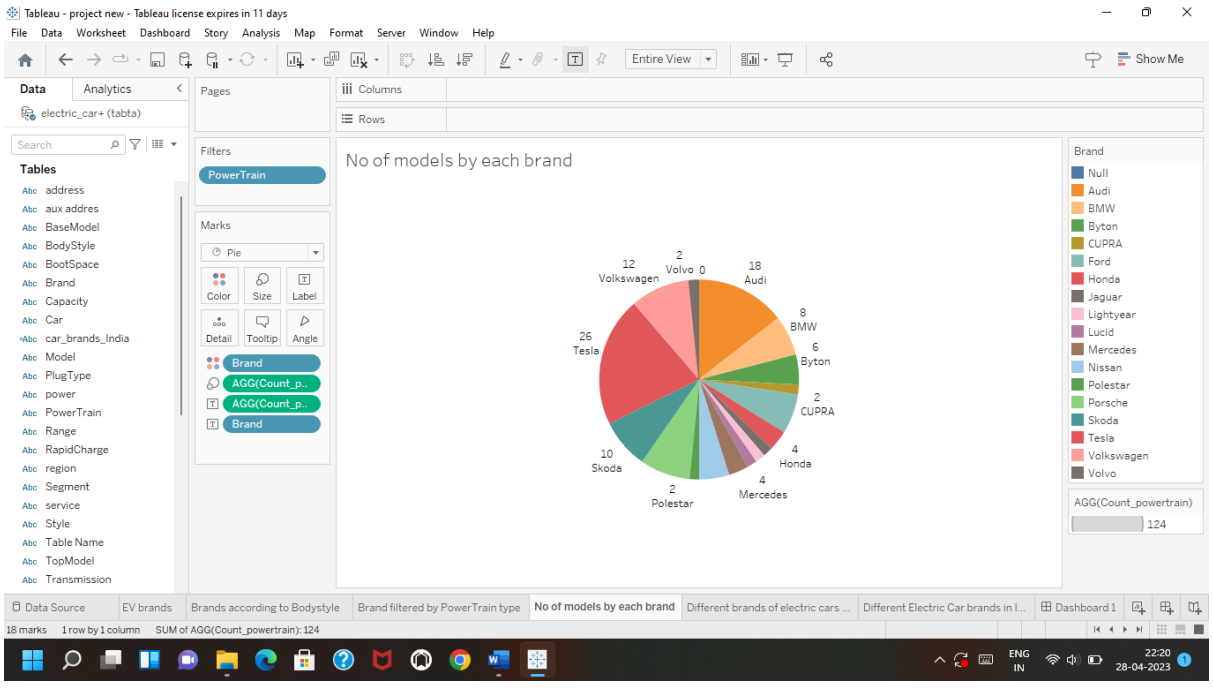
Activity 1.7: Brands according to Bodystyle



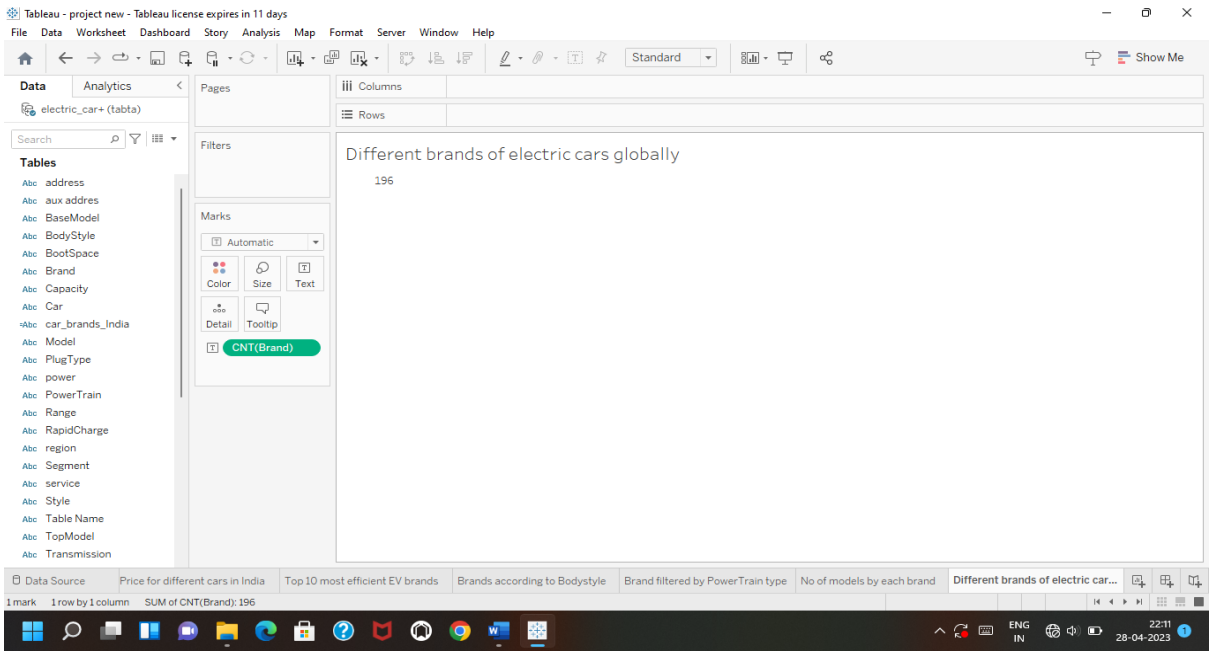
Activity 1.8: Brand filtered by PowerTrain type



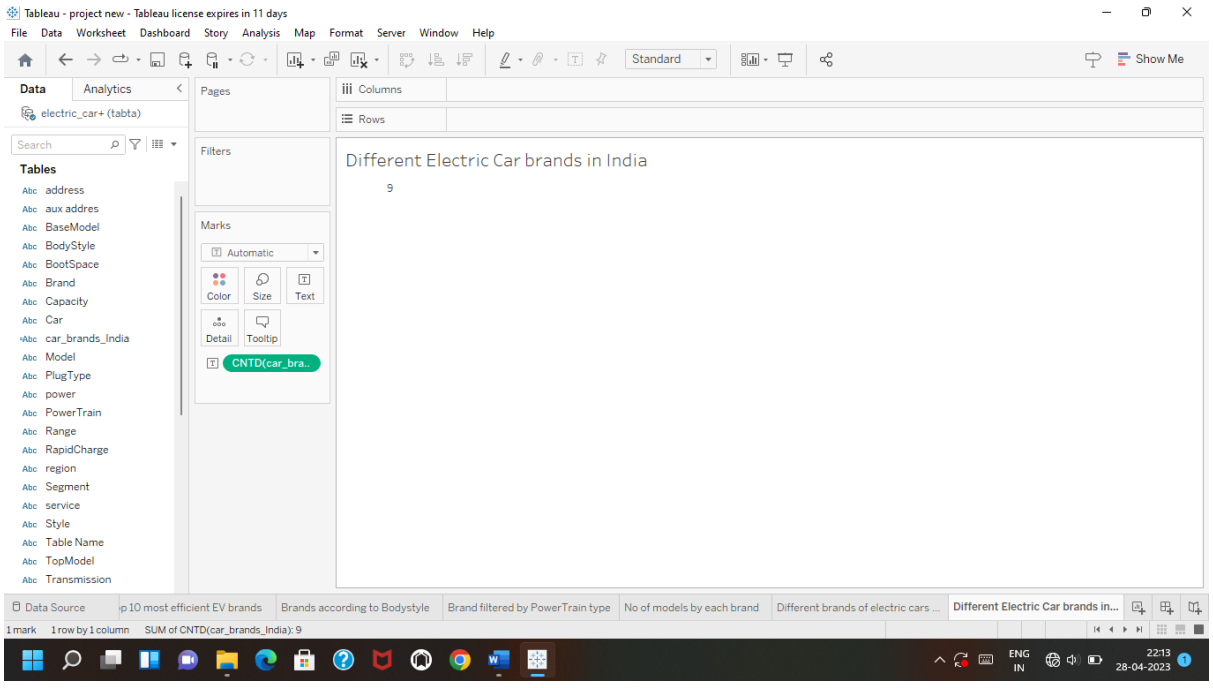
Activity 1.9: No of models by each brand



Activity 1.10: Summary card for Different brands of EV Cars globally



Activity 1.11: Summary card for Different brands of EV Cars in India

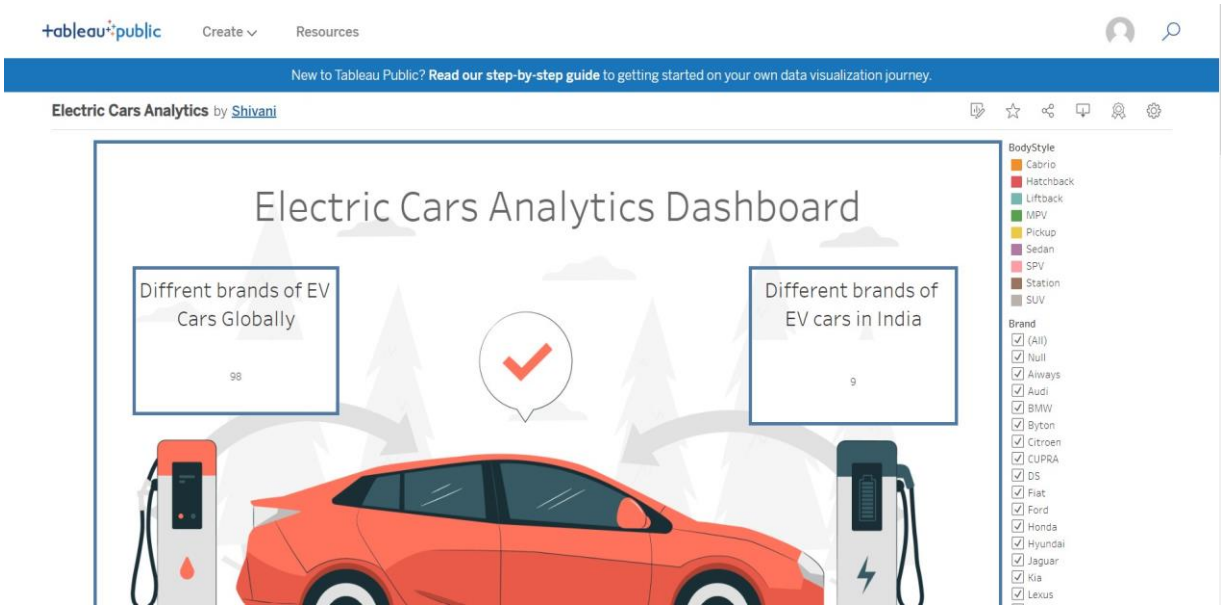


Milestone 5: Dashboard

A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real-time monitoring and analysis of data,and are typically designed for a specific purpose or use case. Dashboards can be used in a variety of settings, such as business, finance, manufacturing, healthcare, and many other industries. They can be used to track key performance indicators (KPIs), monitor performance metrics, and display data inthe form of charts, graphs, and tables.

Activity :1- Responsive and Design of Dashboard

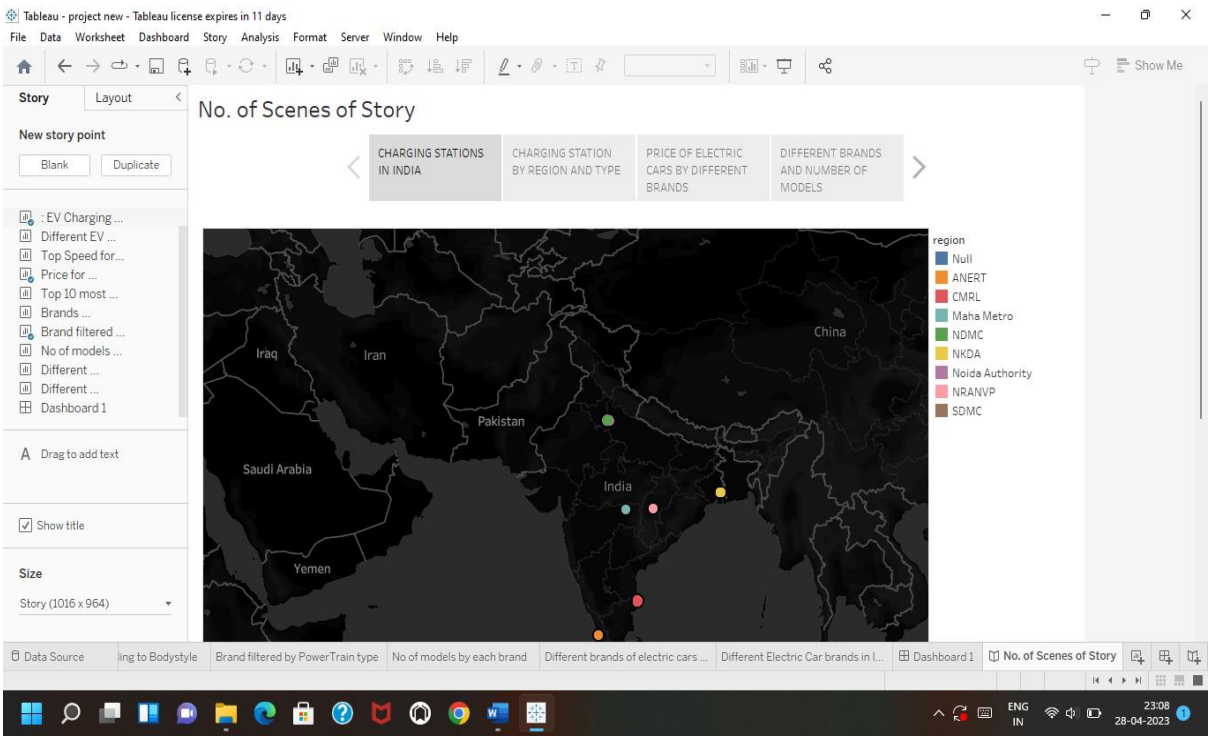
Once you have created views on different sheets in Tableau, you can pull them into a dashboard.



Milestone 6: Story

A data story is a way of presenting data and analysis in a narrative format, with the goal of making theinformation more engaging and easier to understand. A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis in a logical and systematic way, and a conclusion that summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations, and videos.

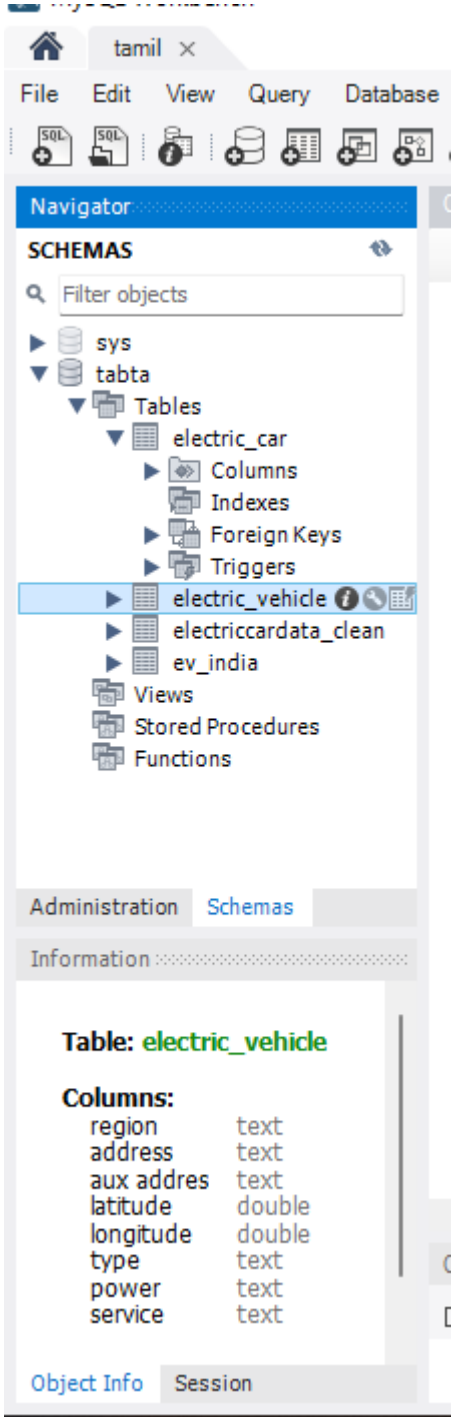
Activity:1- No of Scenes of Story



Milestone 7: Performance Testing

Activity 1: Amount of Data Rendered to DB

1. The amount of data that is rendered to a database depends on the size of thedataset and the capacity of the database to store and retrieve data.
2. Open the MySQL Workbench, go to the database then click to expand the tables,select the table and click on (i) button to get the information related to table such as column count,table rows etc.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ev_india
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Functions
Administration
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service text
Object Info
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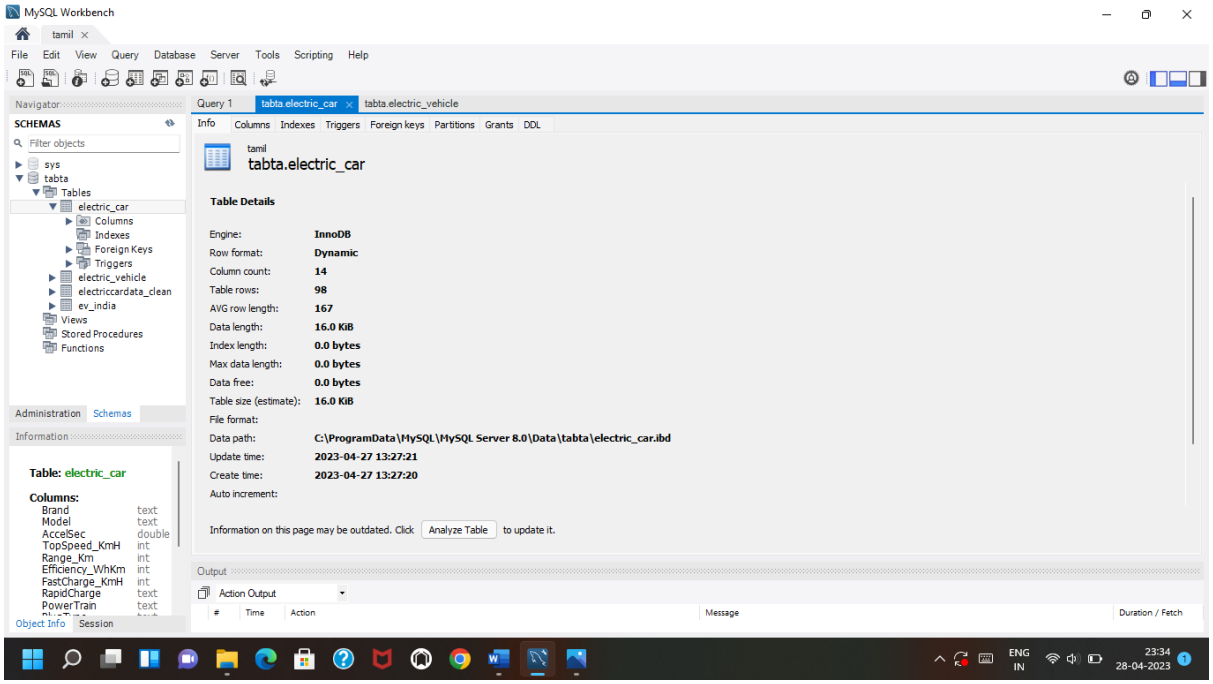
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Views
Stored Procedures
Functions
Administration Schemas
Information
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Columns:
Brand text
Model text
AccelSec double
TopSpeed_KmH int
Range_Km int
Efficiency_WhKm int
FastCharge_KmH int
RapidCharge text
PowerTrain text
Object Info Session
Query 1 tabta.electric_car tabta.electric_vehicle
Info Columns Indexes Triggers Foreign keys Partitions Grants DDL
tamil
tabta.electric_car
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Engine: InnoDB
Row format: Dynamic
Column count: 14
Table rows: 98
AVG row length: 167
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Index length: 0.0 bytes
Max data length: 0.0 bytes
Data free: 0.0 bytes
Table size (estimate): 16.0 KiB
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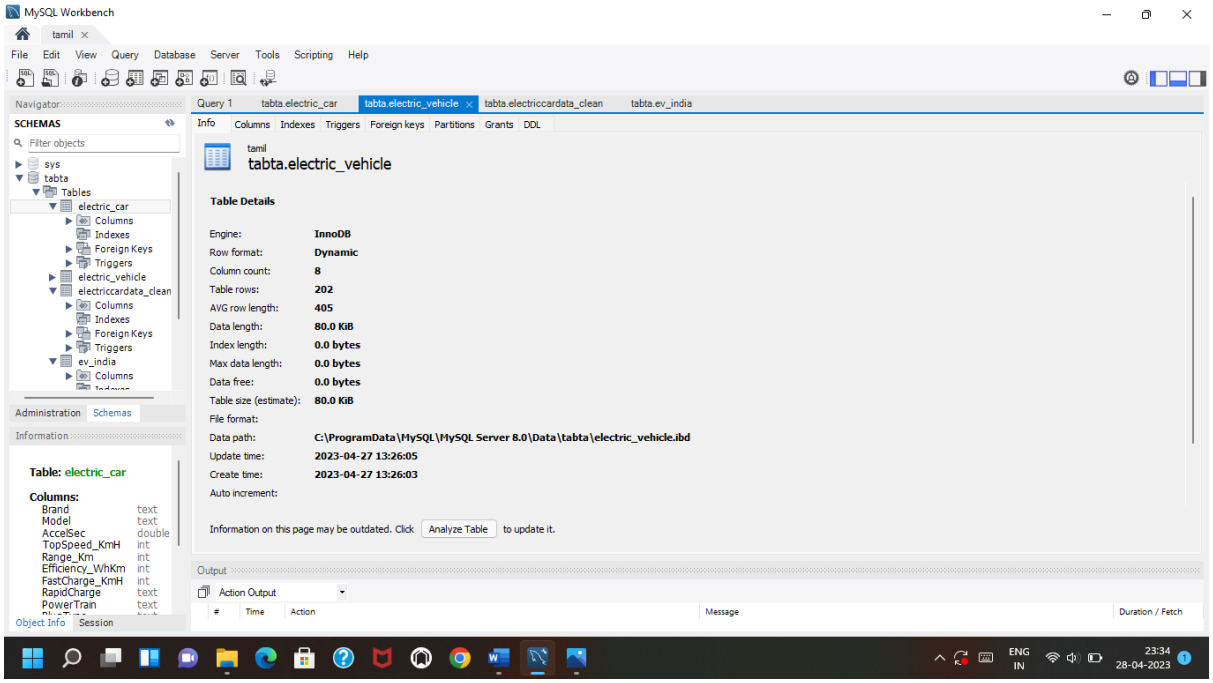
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FastCharge_KmH int
RapidCharge text
PowerTrain text
Object Info Session
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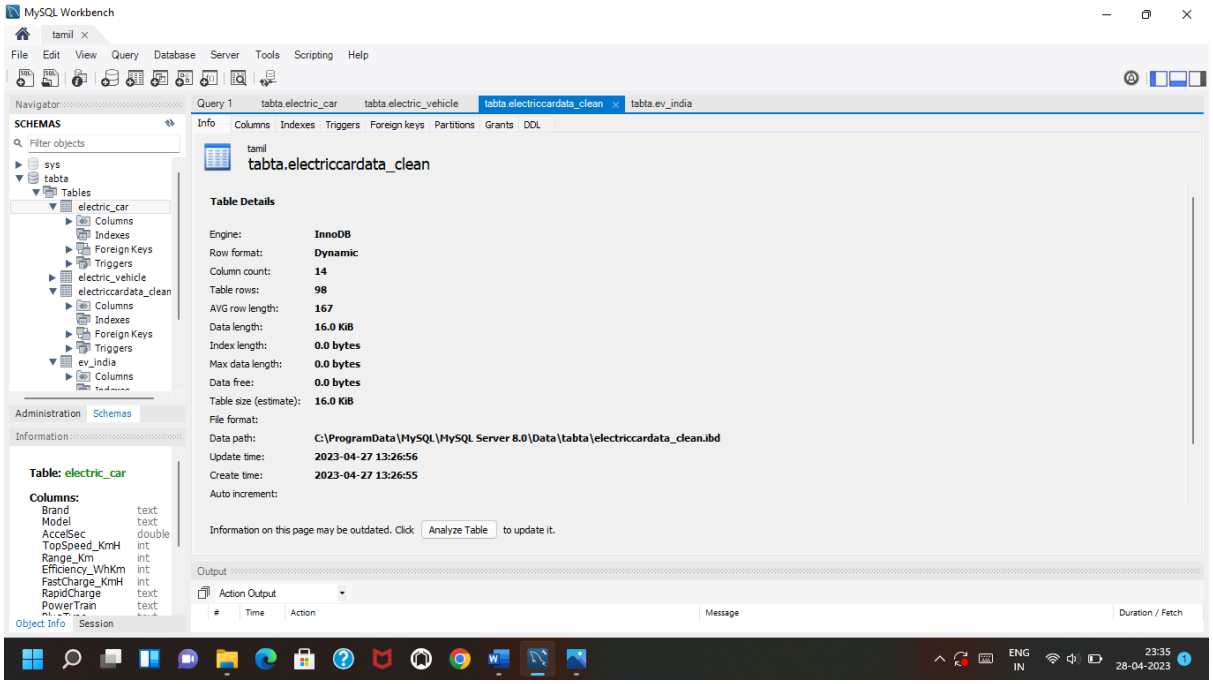
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Info Columns Indexes Triggers Foreign keys Partitions Grants DDL
tamil
tabta.electriccardata_clean
Table Details
Engine: InnoDB
Row format: Dynamic
Column count: 14
Table rows: 98
AVG row length: 167
Data length: 16.0 KiB
Index length: 0.0 bytes
Max data length: 0.0 bytes
Data free: 0.0 bytes
Table size (estimate): 16.0 KiB
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Action Output
Time Action Message Duration / Fetch
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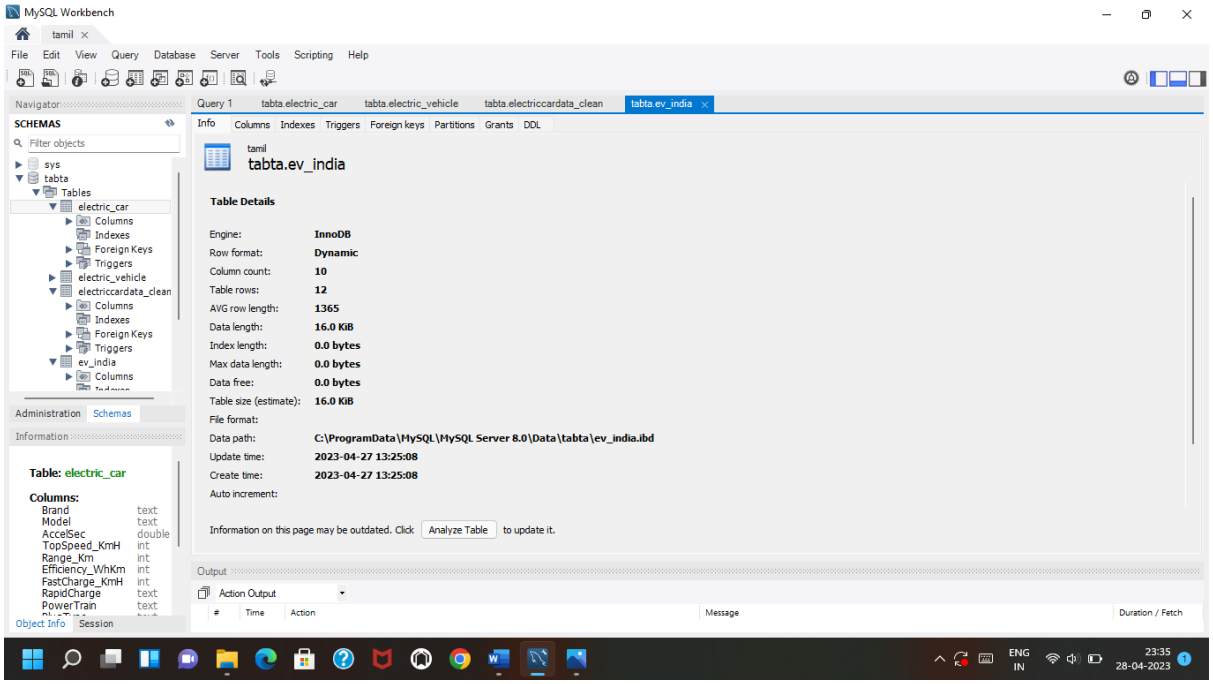
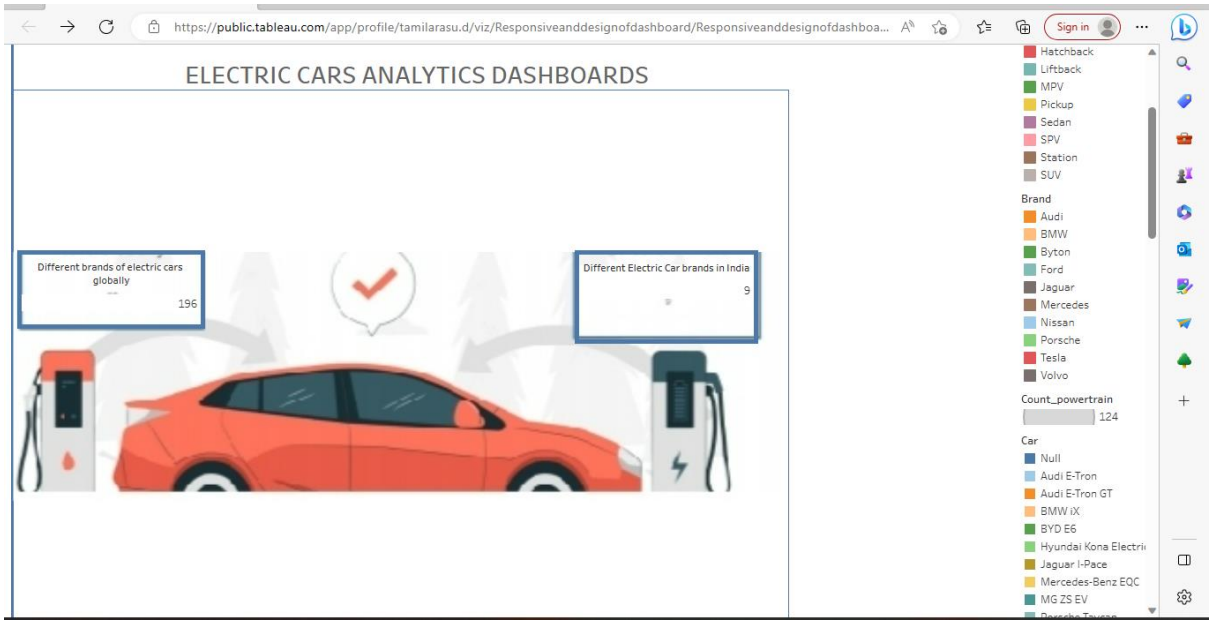
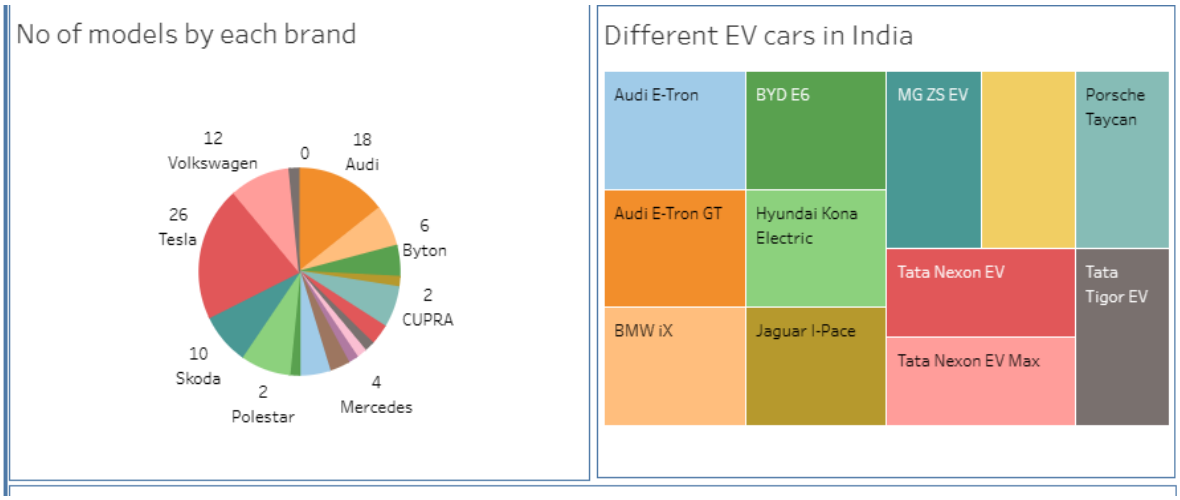
28-04-2023

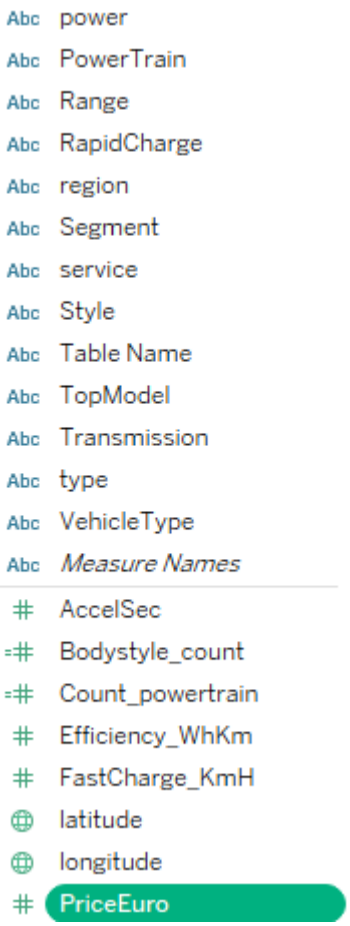

MySQL Workbench
tamil
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
sys
tabta
Tables
electric_car
Columns
Indexes
Foreign Keys
Triggers
electric_vehicle
electriccardata_clean
Columns
Indexes
Foreign Keys
Triggers
ev_india
Columns
Administration Schemas
Information
Table: electric_car
Columns:
Brand text
Model text
AccelSec double
TopSpeed_KmH int
Range_Km int
Efficiency_WhKm int
FastCharge_KmH int
RapidCharge text
PowerTrain text
Object Info Session
Query 1 tabta.electric_car tabta.electric_vehicle tabta.electriccardata_clean tabta.ev_india
Info Columns Indexes Triggers Foreign keys Partitions Grants DDL
tamil
tabta.ev_india
Table Details
Engine: InnoDB
Row format: Dynamic
Column count: 10
Table rows: 12
AVG row length: 1365
Data length: 16.0 KiB
Index length: 0.0 bytes
Max data length: 0.0 bytes
Data free: 0.0 bytes
Table size (estimate): 16.0 KiB
File format:
Data path: C:\ProgramData\MySQL\MySQL Server 8.0\Data\tabta\ev_india.ibd
Update time: 2023-04-27 13:25:08
Create time: 2023-04-27 13:25:08
Auto increment:
Information on this page may be outdated. Click Analyze Table to update it.
Output
Action Output
Time Action Message Duration / Fetch
ENG IN
23:35
28-04-2023

Activity 2: Utilization of Data Filters





Activity 3: No of Calculation Fields



Activity 4: No of Visualizations/ Graphs

1. Charging Stations by region and type in India
2. EV Charging stations map of India
3. Different EV cars in India
4. Top speed for different Brands
5. Price for different cars in India
6. Top 10 most efficient EV Brands
7. Brands according to Bodystyle
8. Brand filtered by PowerTrain type

9. No of models by each brand
10. Summary card for Different brands of EV Cars globally
11. Summary card for Different brands of EV Cars in India

Milestone 8: Web integration

Publishing helps us to track and monitor key performance metrics, to communicate results and progress. help a publisher stay informed, make better decisions, and communicate their performance to others.

Publishing dashboard and reports to tableau public

Step 1: Go to Dashboard/story, click on share button on the top ribbon

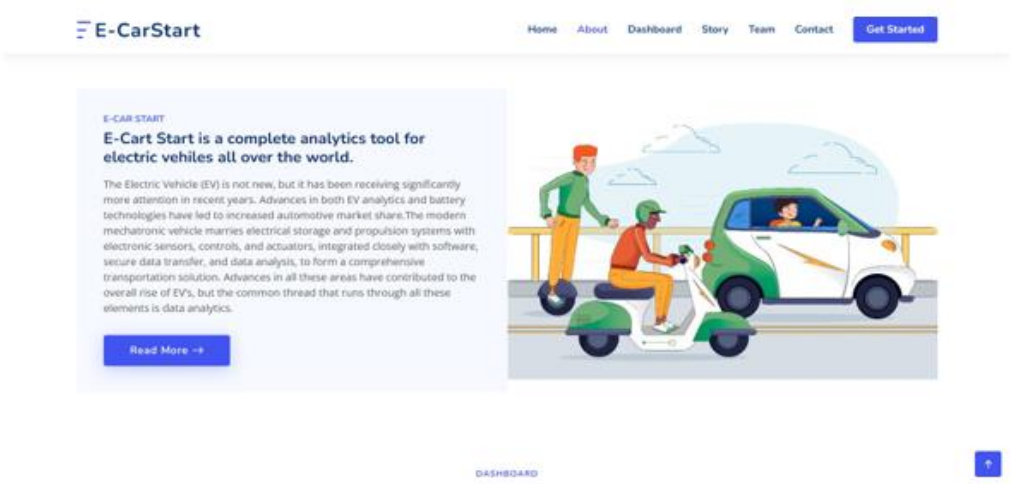
Give the server address of your tableau public account and click on connect.

Step 2: Once you click on connect it will ask you for tableau public user name and password

Once you login into your tableau public using the credentials, the particular visualization will be published into tableau public

Note: While publishing the visualization to the public, the respective sheet will get published when you click on share option.

Activity 1: Dashboard and Story embed with UI With Flask


E-CarStart
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E-CAR START
E-Cart Start is a complete analytics tool for electric vehiles all over the world.
The Electric Vehicle (EV) is not new, but it has been receiving significantly more attention in recent years. Advances in both EV analytics and battery technologies have led to increased automotive market share.The modern mechatronic vehicle marries electrical storage and propulsion systems with electronic sensors, controls, and actuators, integrated closely with software, secure data transfer, and data analysis, to form a comprehensive transportation solution. Advances in all these areas have contributed to the overall rise of EV's, but the common thread that runs through all these elements is data analytics.
Read More →
DASHBOARD


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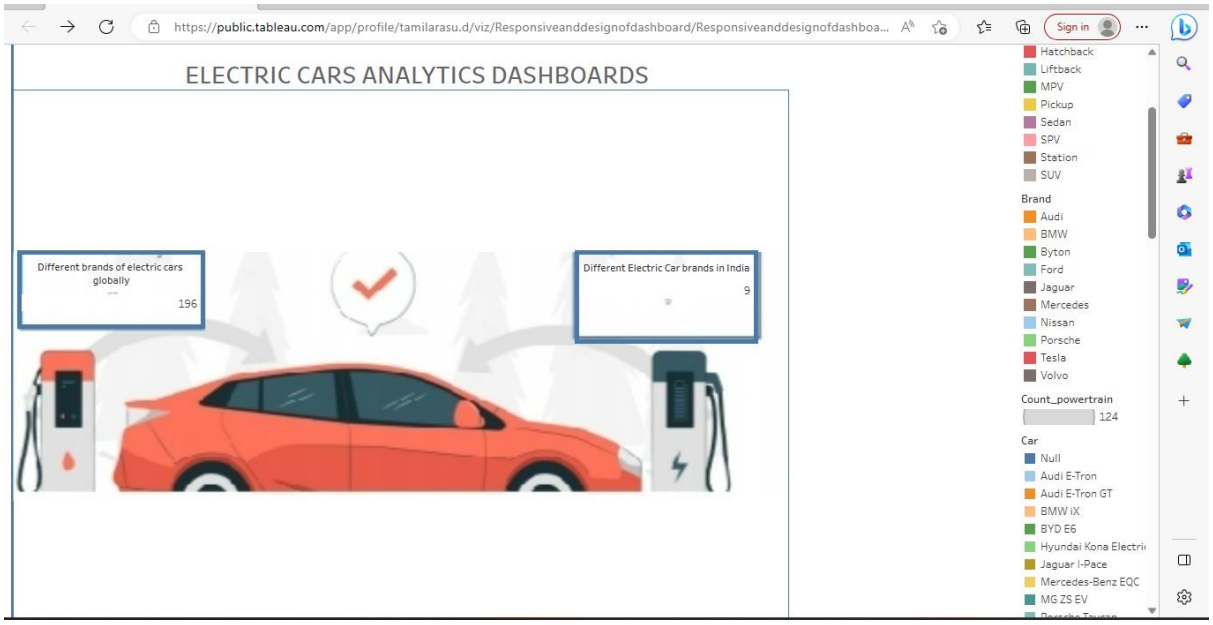
There are many different features of our project
Analyse the currect stats
Get to know EV more
Know about Charging Stations
Top performing Brands
different brands in India
different brands Globally
Overview of Electric Vehicle Sector
ELECTRIC


https://public.tableau.com/app/profile/tamilarasu.d/viz/Responsiveanddesignofdashboard/Responsiveanddesignofdashboa...
Sign in
ELECTRIC CARS ANALYTICS DASHBOARDS
Different brands of electric cars globally
196
Different Electric Car brands in India
9
Hatchback
Liftback
MPV
Pickup
Sedan
SPV
Station
SUV
Brand
Audi
BMW
Byton
Ford
Jaguar
Mercedes
Nissan
Porsche
Tesla
Volvo
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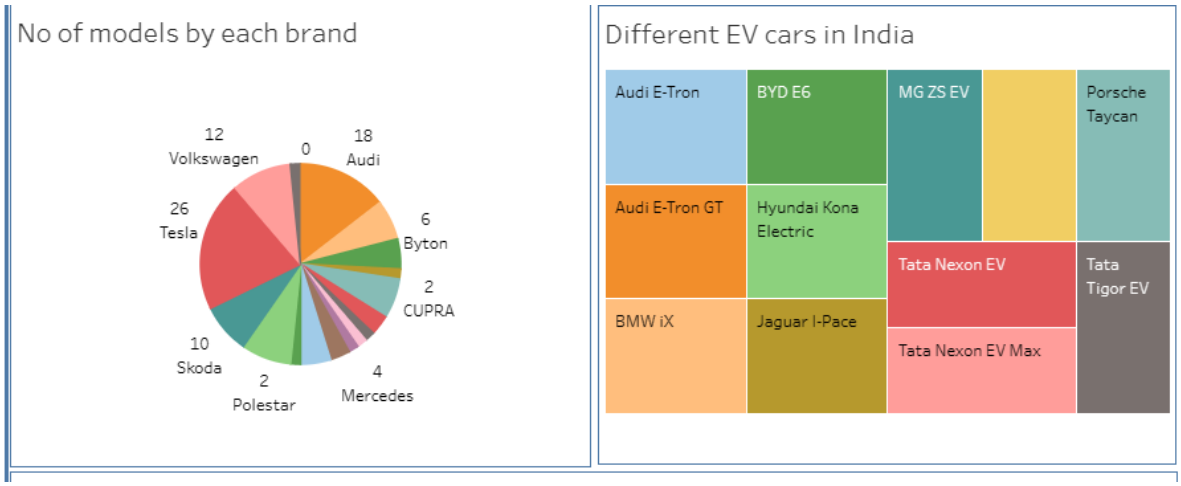
124
Car
Null
Audi E-Tron
Audi E-Tron GT
BMW iX
BYD E6
Hyundai Kona Electri
Jaguar I-Pace
Mercedes-Benz EQC
MG ZS EV


No of models by each brand
12
Volkswagen
0
18
Audi
26
Tesla
6
Byton
2
CUPRA
10
Skoda
2
Polestar
4
Mercedes
Different EV cars in India
Audi E-Tron
BYD E6
MG ZS EV
Porsche Taycan
Audi E-Tron GT
Hyundai Kona Electric
Tata Nexon EV
Tata Tigor EV
BMW iX
Jaguar I-Pace
Tata Nexon EV Max

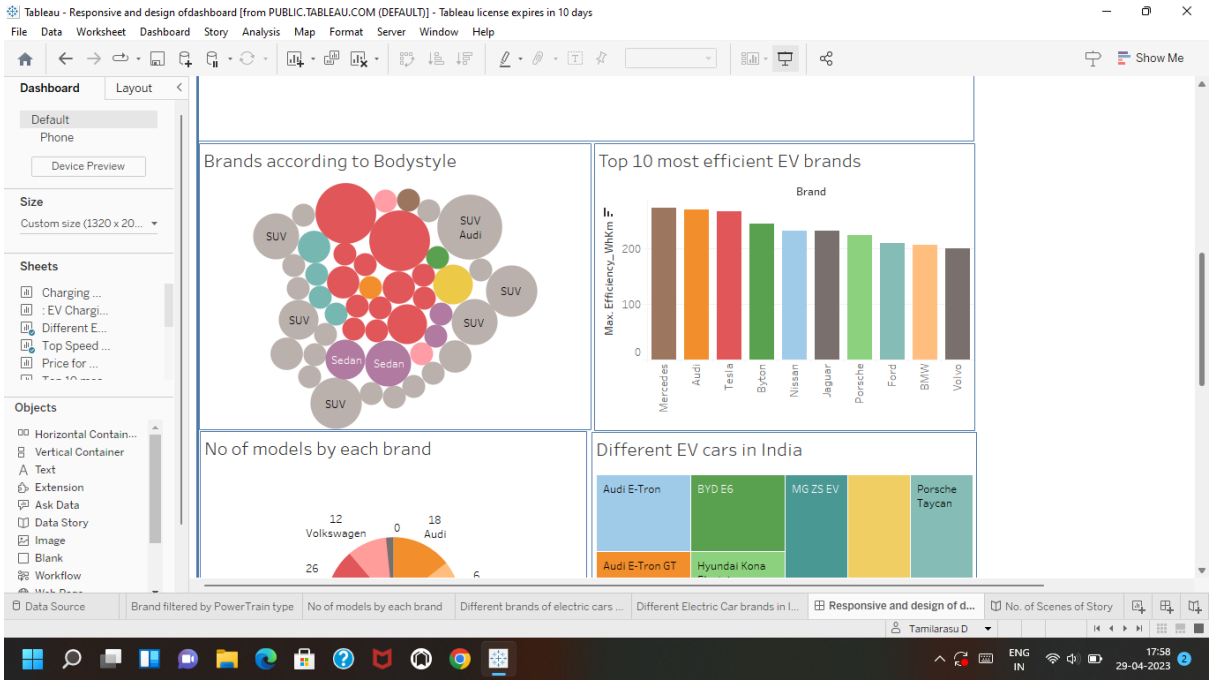


Tableau - Responsive and design ofdashboard [from PUBLIC.TABLEAU.COM (DEFAULT)] - Tableau license expires in 10 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
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Layout
Default
Phone
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: EV Chargi...
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Top Speed ...
Price for ...
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Vertical Container
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Ask Data
Data Story
Image
Blank
Workflow
Brands according to Bodystyle
SUV
SUV Audi
SUV
SUV
SUV
Sedan
Sedan
SUV
Top 10 most efficient EV brands
Brand
Max. Efficiency_WhKm
200
100
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Mercedes
Audi
Tesla
Byton
Nissan
Jaguar
Porsche
Ford
BMW
Volvo
No of models by each brand
12
Volkswagen
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18
Audi
26
6
Different EV cars in India
Audi E-Tron
BYD E6
MG ZS EV
Porsche Taycan
Audi E-Tron GT
Hyundai Kona
Data Source
Brand filtered by PowerTrain type
No of models by each brand
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Different Electric Car brands in I...
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29-04-2023


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top speed for different brands
Brand
Max. TopSpeed_KmH
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300
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Audi
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Byton
Citroen
CUPRA
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Fiat
Ford
Honda
Hyundai
Jaguar
Kia
Lexus
Lightyear
Lucid
Mazda
Mercedes
MG
Mini
Nissan
Opel
Peugeot
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Porsche
Renault
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There are many different features of our project
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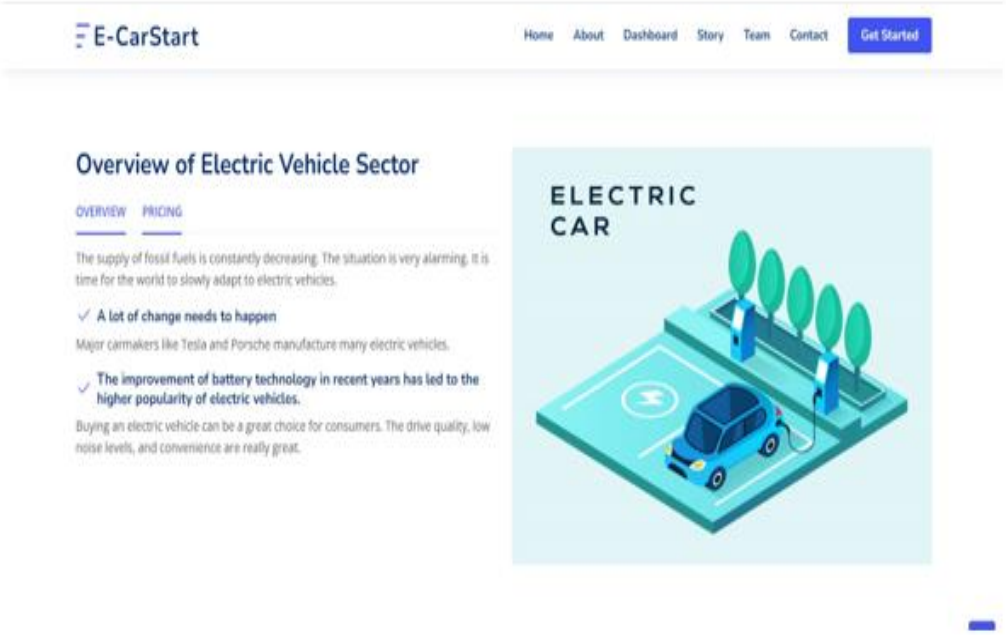
different brands in India
different brands Globally
Overview of Electric Vehicle Sector
ELECTRIC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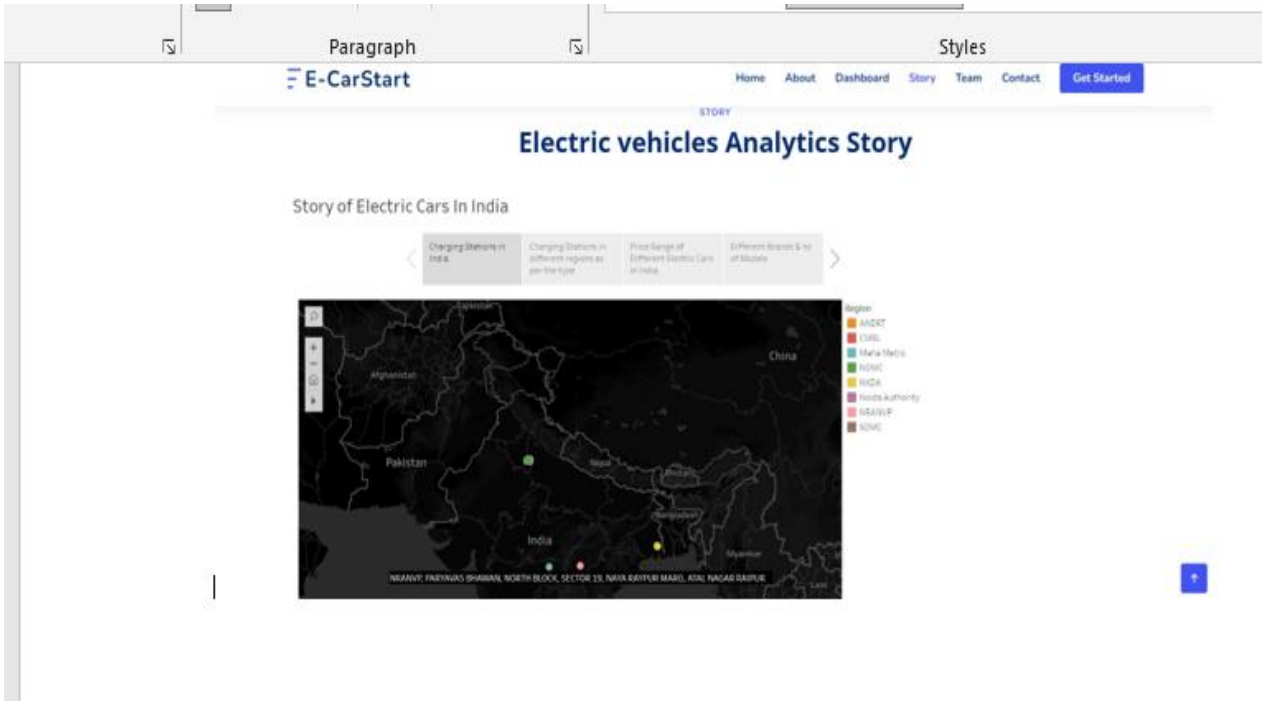
Overview of Electric Vehicle Sector
OVERVIEW
PRICING
The supply of fossil fuels is constantly decreasing. The situation is very alarming. It is time for the world to slowly adapt to electric vehicles.
A lot of change needs to happen
Major carmakers like Tesla and Porsche manufacture many electric vehicles.
The improvement of battery technology in recent years has led to the higher popularity of electric vehicles.
Buying an electric vehicle can be a great choice for consumers. The drive quality, low noise levels, and convenience are really great.
ELECTRIC CAR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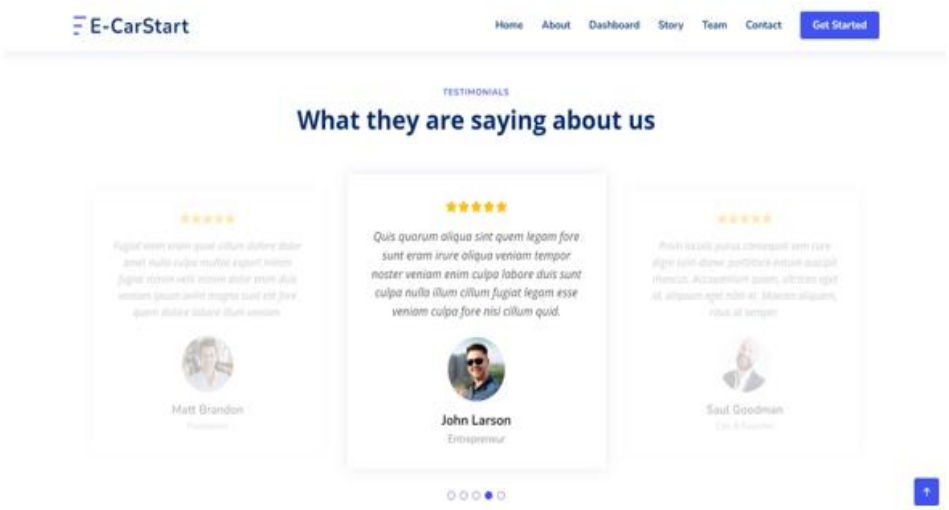
STORY
Electric vehicles Analytics Story
Story of Electric Cars In India
China
Afghanistan
Pakistan
India
Nepal
Bangladesh
Myanmar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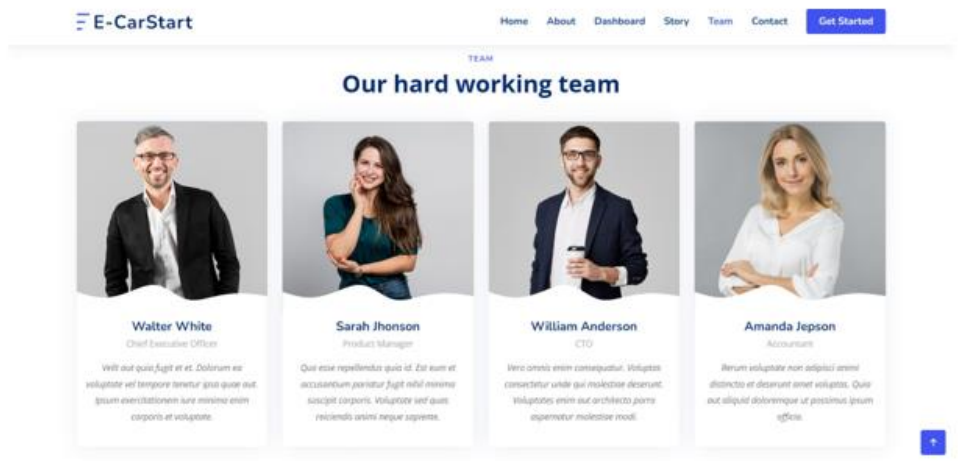
TESTIMONIALS
What they are saying about us
Quis quorum aliqua sint quem legam fore sunt eram irure aliqua veniam tempor noster veniam enim culpa labore duis sunt culpa nulla illum cillum fugiat legam esse veniam culpa fore nisi cillum quid.
John Larson
Entrepreneur
Matt Brandon
Saul Goodman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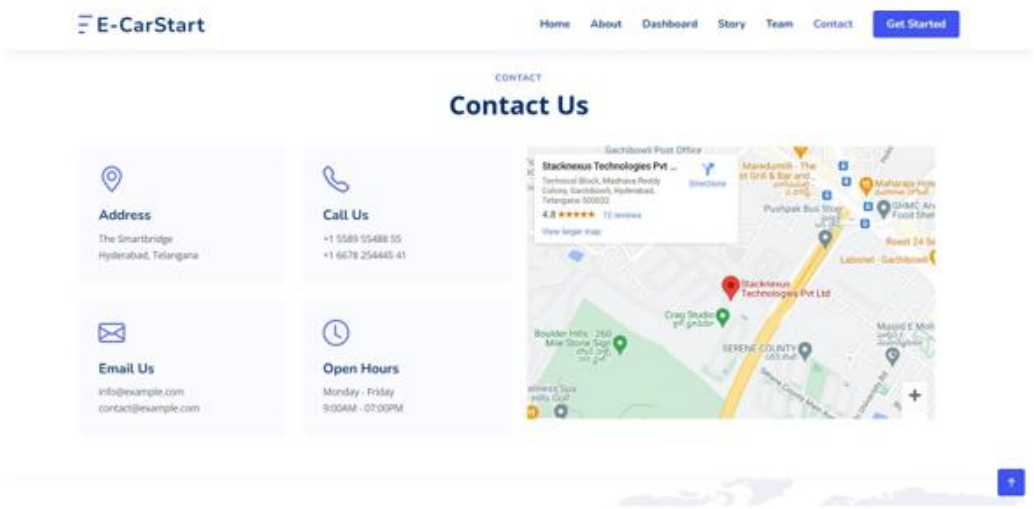
Our hard working team
Walter White
Chief Executive Officer
Sarah Jhonson
Product Manager
William Anderson
CTO
Amanda Jepson
Accountant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+1 6678 254445 41
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contact@example.com
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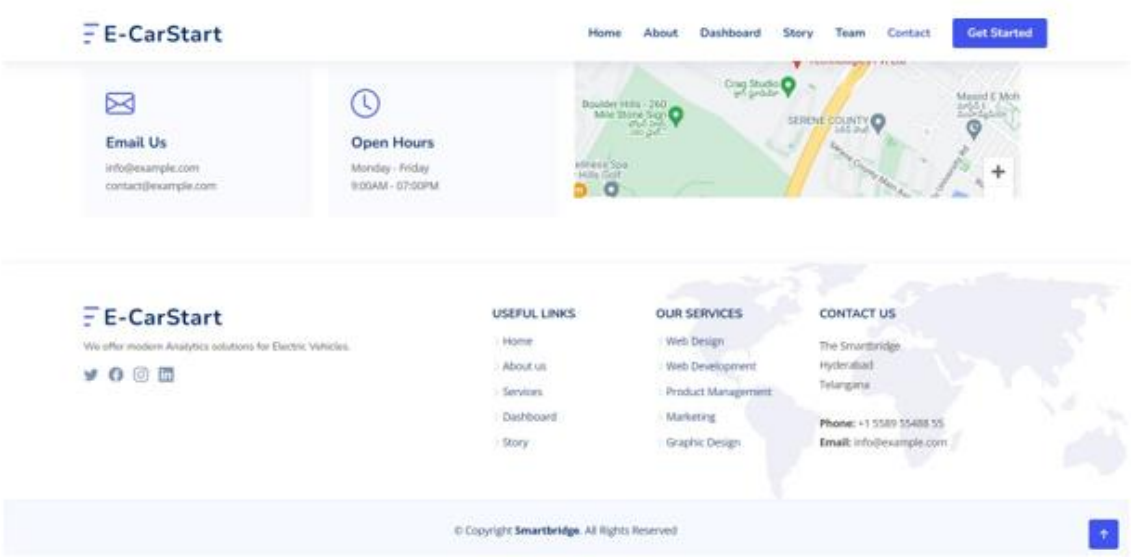
Stacknexus Technologies Pvt Ltd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