

Data Flow Diagram

Visualization tool for Electric charge and Range Analysis

Date	25 June 2025
Team ID	LTVIP2025TMID20808
Project Name	Visualization tool for electric vehicle charge and range analysis using Tableau
Maximum Marks	4 Marks

Data Flow Description

The following describes the data flow in the Visualization Tool for Electric Charge and Range Analysis project.

This DFD outlines how the raw EV data moves through the system and gets transformed into interactive visualizations.

1. Raw EV Dataset (CSV format) – collected data containing charging station information, vehicle type, charging duration, and range stats.
2. MySQL Workbench – used for storing, cleaning, and structuring the dataset. SQL queries filter and organize the data.
3. Tableau – connects to MySQL to generate dashboards and stories using charts, filters, and storyboards.
4. Tableau Public – the final dashboard and story are published online for public access.
5. Website – Tableau dashboards and stories can be embedded on platforms like Netlify.

Text-Based DFD Representation

