

This document provides comprehensive metadata descriptions for the columns in the CSV files related to electric vehicle sales data. These datasets include sales by state, sales by maker, and a date dimension table useful for time-series analysis.

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electric\_vehicle\_sales\_by\_state.csv

- date: The date on which the data was recorded. Format: DD-MMM-YY. (Data is recorded on a monthly basis)
- state: The name of the state where the sales data is recorded. This indicates the geographical location within India.
- vehicle\_category: The category of the vehicle, specifying whether it is a 2-Wheeler or a 4-Wheeler.
- electric\_vehicles\_sold: The number of electric vehicles sold in the specified state and category on the given date.
- total\_vehicles\_sold: The total number of vehicles (including both electric and non-electric) sold in the specified state and category on the given date.

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electric\_vehicle\_sales\_by\_makers.csv

- date: The date on which the sales data was recorded. Format: DD-MMM-YY. (Data is recorded on a monthly basis)
- vehicle\_category: The category of the vehicle, specifying whether it is a 2-Wheeler or a 4-Wheeler.
- maker: The name of the manufacturer or brand of the electric vehicle.
- electric\_vehicles\_sold: The number of electric vehicles sold by the specified maker in the given category on the given date.

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dim\_date.csv

- date: The specific date for which the data is relevant. Format: DD-MMM-YY. (Data is recorded on a monthly basis)

- fiscal\_year: The fiscal year to which the date belongs. This is useful for financial and business analysis.

- quarter: The fiscal quarter to which the date belongs. Fiscal quarters are typically divided as Q1, Q2, Q3, and Q4.

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Few Key Points:

1. Fiscal Year: The fiscal year is a one-year period used for financial reporting and budgeting, starting on April 1st and ending on March 31st of the following year in India.

2. Penetration Rate: This metric represents the percentage of total vehicles that are electric within a specific region or category. It is calculated as:

$$\text{Penetration Rate} = (\text{Electric Vehicles Sold} / \text{Total Vehicles Sold}) * 100$$

This indicates the adoption level of electric vehicles.

3. Compound Annual Growth Rate (CAGR): CAGR measures the mean annual growth rate over a specified period longer than one year. It is calculated as:

$$\text{CAGR} = [(\text{Ending Value} / \text{Beginning Value})^{** 1/n}] - 1$$