

# **ELECTRIC VEHICLE SPECS DATASET (2025)**

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# BACKGROUND

As electric vehicles (EVs) continue to shape the future of transportation, I explored a 2025 EV specifications dataset using MySQL to uncover key insights about performance, efficiency, and technology trends.

Tools Used :- MySQL

Dataset :- Electric Vehicle Specs Dataset 2025 (for kaggle)

# PROBLE STATMENT

- Which brand has the most electric vehicle models?
- Which 5 EVs have the highest top speed?
- Which EVs have a range over 500 km and fast charging power above 150 kW?
- What is the average range per brand?
- List all EVs with battery capacity over 75 kWh and cargo volume above 500 liters.
- Which drivetrain type (FWD, RWD, AWD) is most common?
- Which segment (e.g., SUV, Sedan) has the highest average torque?
- What is the average acceleration time (0-100 km/h) for each brand?
- Find the top 5 most energy-efficient EVs (lowest efficiency\_wh\_per\_km).
- List all 7-seater vehicles with at least 600 km range.

- Which brand has the most electric vehicle models?

```
SELECT  
  brand, COUNT(model) count_model  
FROM  
  electric_vehicles  
GROUP BY brand  
ORDER BY count_model DESC;
```

- Which 5 EVs have the highest top speed?

```
SELECT  
  brand, model, top_speed_kmh  
FROM  
  electric_vehicles  
ORDER BY top_speed_kmh DESC  
LIMIT 5
```

- Which EVs have a range over 500 km and fast charging power above 150 kW?

```
SELECT
  model, range_km, fast_charging_power_kw_dc
FROM
  electric_vehicles
WHERE
  range_km > 500
  AND fast_charging_power_kw_dc > 150;
```

- What is the average range per brand?

```
SELECT
  brand, ROUND(AVG(range_km)) AS avg_range
FROM
  electric_vehicles
GROUP BY brand;
```

- List all EVs with battery capacity over 75 kWh and cargo volume above 500 liters.

```
SELECT
  *
FROM
  electric_vehicles
WHERE
  battery_capacity_kWh > 75
  AND cargo_volume_l > 500;
```

- Which drivetrain type (FWD, RWD, AWD) is most common?

```
SELECT
  drivetrain, COUNT(*) AS total_vehicles
FROM
  electric_vehicles
GROUP BY drivetrain
ORDER BY total_vehicles DESC;
```

- Which segment (e.g., SUV, Sedan) has the highest average torque?

```
SELECT
  segment, ROUND(AVG(torque_nm), 2) AS avg_torque
FROM
  electric_vehicles
GROUP BY segment
ORDER BY avg_torque DESC;
```

- What is the average acceleration time (0-100 km/h) for each brand?

```
SELECT
  brand, ROUND(AVG(acceleration_0_100_s), 2) AS in_sec
FROM
  electric_vehicles
GROUP BY brand;
```

- Find the top 5 most energy-efficient EVs (lowest efficiency\_wh\_per\_km).

```
SELECT
  *, efficiency_wh_per_km
FROM
  electric_vehicles
ORDER BY efficiency_wh_per_km;
```

- List all 7-seater vehicles with at least 600 km range.

```
SELECT
  *
FROM
  electric_vehicles
WHERE
  seats = 7 AND range_km > 600;
```



- most car body type

```
SELECT  
  car_body_type, COUNT(model) car  
FROM  
  electric_vehicles  
GROUP BY car_body_type;
```



# THANK YOU