

# SQL Queries for EV Data Analysis:

## 1. State Wise EV Market Share

```
select state_ut,total_ev,total_vehicles_sold,(total_ev/total_vehicles_sold)*100
as market_share

from total_evs

order by market_share desc

limit 10;
```

## Total Electric Vehicles Currently Available

```
Select state_ut, sum(total_ev)

From total_evs;
```

## Total Vehicles Currently Available

```
select state_ut, sum(total_vehicles_sold)

From total_evs;
```

## 2. Top 10 EV Companies by Total Sales

```
select company,

sum(sales_2019+sales_2020+sales_2021+sales_2022+sales_2023+sales_2024)
as total

from companywise_ev_details

group by company

order by total desc

limit 10;
```

### 3. EV Charging Infrastructure Analysis

```
select state_ut,noofchargingstations  
from total_evs  
order by noofchargingstations desc;
```

### 4. Year-over-Year EV Sales Growth (%)

```
select  
(sum(sales_2020)-sum(sales_2019))/sum(sales_2019)*100 as growth2019_2020,  
(sum(sales_2021)-sum(sales_2020))/sum(sales_2020)*100 as  
growth2020_2021,  
(sum(sales_2022)-sum(sales_2021))/sum(sales_2021)*100 as  
growth2021_2022,  
(sum(sales_2023)-sum(sales_2022))/sum(sales_2022)*100 as  
growth2022_2023,  
(sum(sales_2024)-sum(sales_2023))/sum(sales_2023)*100 as growth2023_2024  
from companywise_ev_details;
```

### 5. Which States Need More Charging Stations?

```
select state_ut,total_ev,noofchargingstations,  
round(total_ev/noofchargingstations,2) as evsperstation  
from total_evs  
where noofchargingstations > 0  
order by evsperstation desc;
```

## 6. Market 2-Wheeler Lead by Total Sales

```
select
company,sales_2019,sales_2020,sales_2021,sales_2022,sales_2023,sales_2024,
    (sales_2019+sales_2020+sales_2021+sales_2022+sales_2023+sales_2024)
as total
from companywise_ev_details
where vehicle_type="2-Wheelers"
order by total desc
limit 5;
```

## 7. Market 4-Wheeler Lead by Total Sales

```
select
company,sales_2019,sales_2020,sales_2021,sales_2022,sales_2023,sales_2024,
    (sales_2019+sales_2020+sales_2021+sales_2022+sales_2023+sales_2024)
as total
from companywise_ev_details
where vehicle_type="Cars"
order by total desc
limit 5;
```