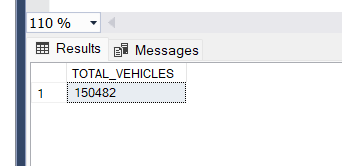
**SQL –ELECTRIC VEHCILES PROJECT**

**Tool Used – MS SQL Server**

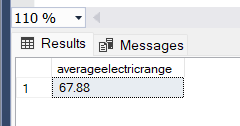
1. **Total Vehicles:**

* SELECT COUNT('VIN(1-10)') AS TOTAL\_VEHICLES FROM ELECTRIC\_VEHICLE\_POPULATION\_DAT$



1. **Average Electric Range:**

* SELECT ROUND(AVG(ELECTRIC\_RANGE),2) AS AVERAGEELECTRICRANGE FROM ELECTRIC\_VEHICLE\_POPULATION\_DAT$



* SELECT TOP 10

MAKE,

COUNT(\*) AS TOTALVEHICLES,

RANK() OVER (ORDER BY COUNT(\*) DESC) AS RANK

FROM

ELECTRIC\_VEHICLE\_POPULATION\_DAT$

GROUP BY

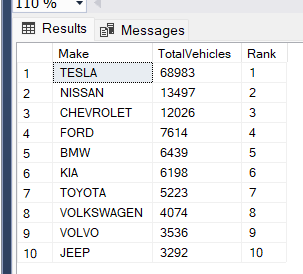
MAKE

HAVING

MAKE IS NOT NULL

ORDER BY

TOTALVEHICLES DESC



1. **Total BEV Vehicles and % of Total BEV Vehicles:**

* SELECT

COUNT(\*) AS TOTALBEV,

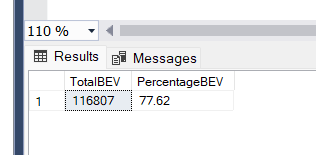
CAST(COUNT(\*) \* 100.0 / (SELECT COUNT(\*) FROM ELECTRIC\_VEHICLE\_POPULATION\_DAT$)AS DECIMAL(10,2)) AS PERCENTAGEBEV

FROM

ELECTRIC\_VEHICLE\_POPULATION\_DAT$

WHERE

ELECTRIC\_VEHICLE\_TYPE = 'BATTERY ELECTRIC VEHICLE (BEV)';

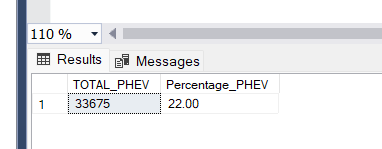


1. **Total PHEV Vehicles and % of Total PHEV Vehicles:**

* SELECT COUNT(\*) AS TOTAL\_PHEV,

CAST(COUNT(\*)\*100/(SELECT COUNT(\*) FROM ELECTRIC\_VEHICLE\_POPULATION\_DAT$)AS DECIMAL(10,2)) AS PERCENTAGE\_PHEV

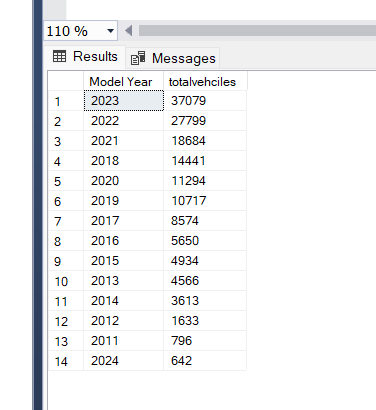
FROM ELECTRIC\_VEHICLE\_POPULATION\_DAT$ WHERE ELECTRIC\_VEHICLE\_TYPE='PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)'



1. **Total Vehicles by Model Year (From 2010 Onwards):**

* SELECT [MODEL YEAR],COUNT(\*) AS TOTALVEHCILES FROM ELECTRIC\_VEHICLE\_POPULATION\_DAT$ WHERE [MODEL YEAR]>=2011

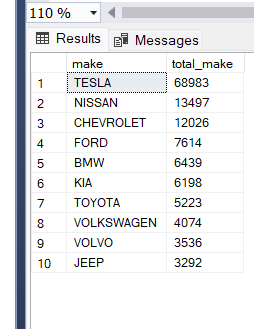
GROUP BY [MODEL YEAR] ORDER BY TOTALVEHCILES DESC



**6 . Top 10 Total Vehicles by Make:**

* SELECT TOP 10 MAKE ,COUNT(\*) AS TOTAL\_MAKE FROM ELECTRIC\_VEHICLE\_POPULATION\_DAT$

GROUP BY MAKE ORDER BY TOTAL\_MAKE DESC



**7. Total Vehicles by CAFV Eligibility:**

* SELECT TOP 10 MAKE

MAKE,

COUNT('CLEAN ALTERNATIVE FUEL VEHICLE ELIGIBLE') AS TOTALS

FROM

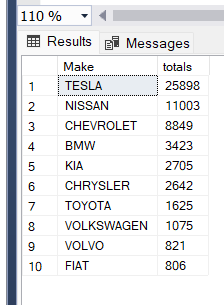
ELECTRIC\_VEHICLE\_POPULATION\_DAT$

WHERE

[CLEAN ALTERNATIVE FUEL VEHICLE (CAFV) ELIGIBILITY] = 'CLEAN ALTERNATIVE FUEL VEHICLE ELIGIBLE'

GROUP BY

MAKE ORDER BY TOTALS DESC

****

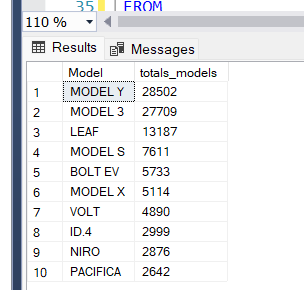
**8. Total Vehicles by Model:**

* SELECT TOP 10 MODEL,COUNT(\*)AS TOTALS\_MODELS

FROM ELECTRIC\_VEHICLE\_POPULATION\_DAT$ GROUP BY

MODEL

ORDER BY TOTALS\_MODELS DESC

****