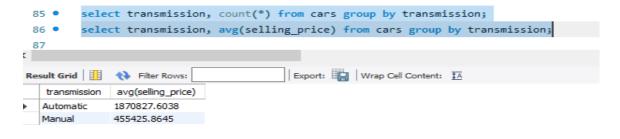
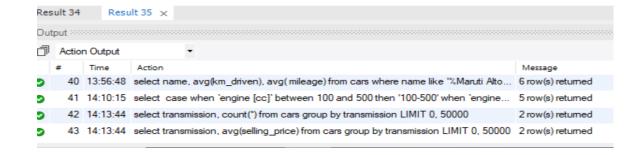
CAR24 DATASET MINI PROJECT L1

Insights

1. Which transmission cars have higher market value and how many of cars we have based on transmissions?

select transmission, count(*) from cars group by transmission; select transmission, avg(selling price) from cars group by transmission;



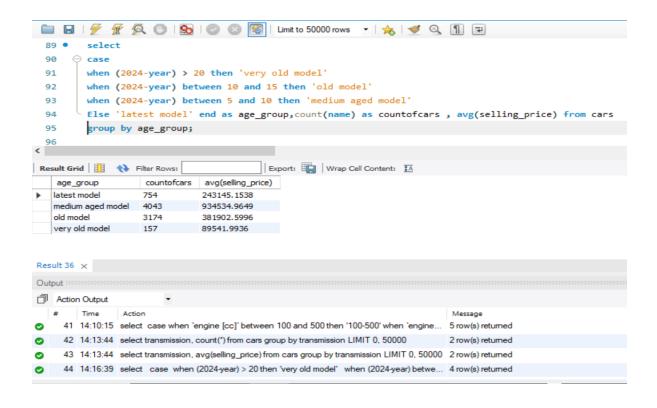


2. Which age group cars have highest count and Which age group car have higher market value ?

select

case

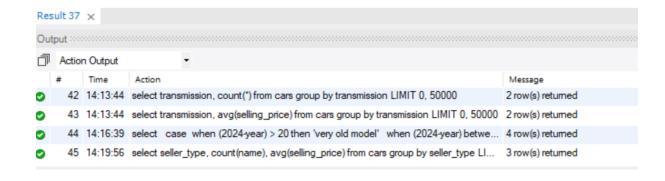
when (2024-year) > 20 then 'very old model'
when (2024-year) between 10 and 15 then 'old model'
when (2024-year) between 5 and 10 then 'medium aged model'
Else 'latest model' end as age_group,count(name) as countofcars ,
avg(selling price) from cars group by age group;



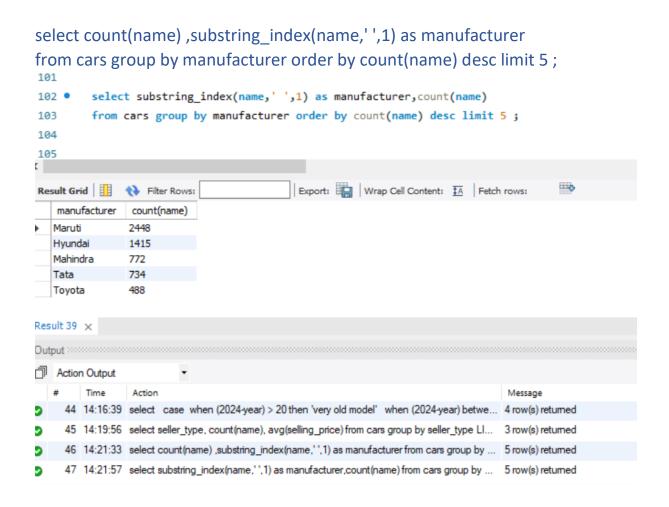
Compare of Average Selling Price Across Seller Type.
 select seller_type, count(name), avg(selling_price) from cars gro

select seller_type, count(name), avg(selling_price) from cars group by seller type;



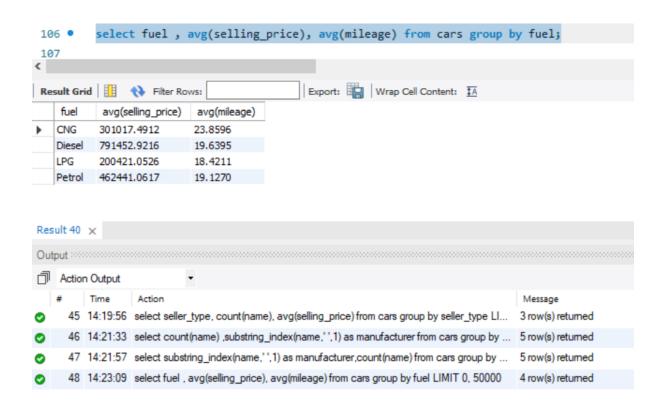


4. Which top 5 manufacturers have highest number of cars?



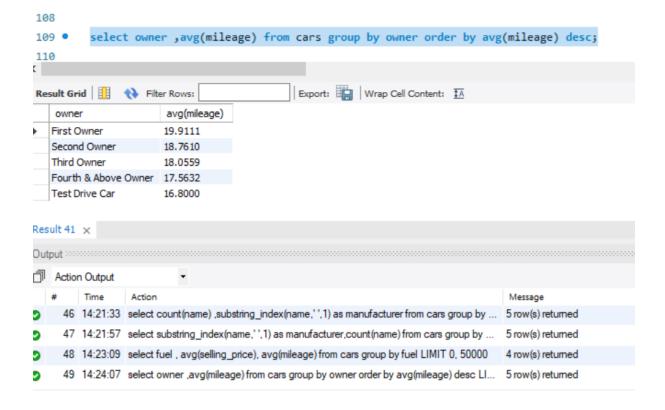
5. Which fuel type cars have higher mileage and good selling price?

select fuel, avg(selling_price), avg(mileage) from cars group by fuel;

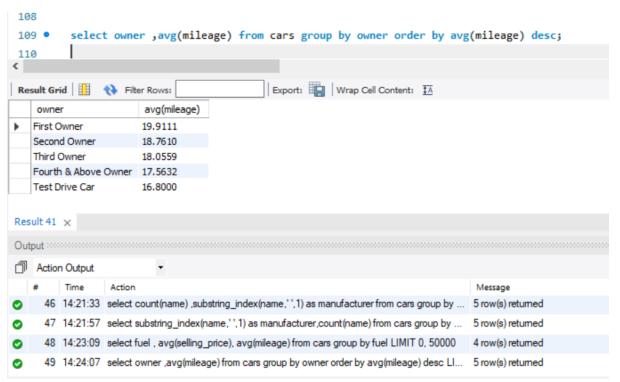


6. Impact of Ownership On Car Fuel Efficiency?

select owner ,avg(mileage) from cars group by owner order by avg(mileage) desc;



Impact of Car Year Manufacturing with Average Selling Price.
 select year, avg(selling_price) as avgprice from cars group by year order by year desc;



8. Vehicle Type (gype/thar, hatchback/sedan, SUV) Distribution Of Car Based On Seats.

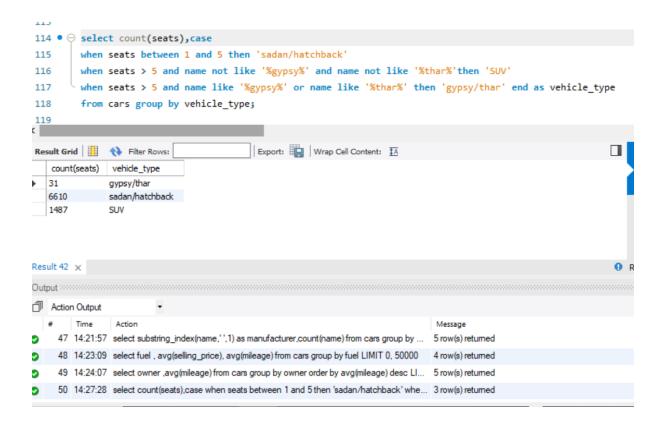
select count(seats), case

when seats between 1 and 5 then 'sadan/hatchback'

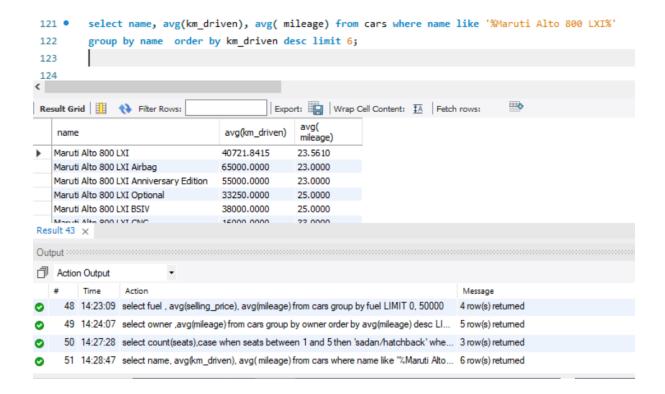
when seats > 5 and name not like '%gypsy%' and name not like '%thar%'then 'SUV'

when seats > 5 and name like '%gypsy%' or name like '%thar%' then 'gypsy/thar' end as vehicle_type

from cars group by vehicle_type;



 Correlation Between Distance Traveled And Fuel Efficiency Of Car select name, avg(km_driven), avg(mileage) from cars where name like '%Maruti Alto 800 LXI%' group by name order by km driven desc limit 6;



10.Influence Of Engine Displacement On Both Resale Value Of Car and Their Fuel Efficiency

select

case

when 'engine [cc]' between 100 and 500 then '100-500' when 'engine [cc]' between 500 and 1000 then '500-1000' when 'engine [cc]' between 1000 and 1500 then '1000-1500' when 'engine [cc]' between 1500 and 2000 then '1500-2000' when 'engine [cc]' between 2000 and 2500 then '2000-2500' when 'engine [cc]' > 2500 then '>2500' end as engine_CC_group, avg (mileage), avg(selling_price)

from cars group by engine CC group;

