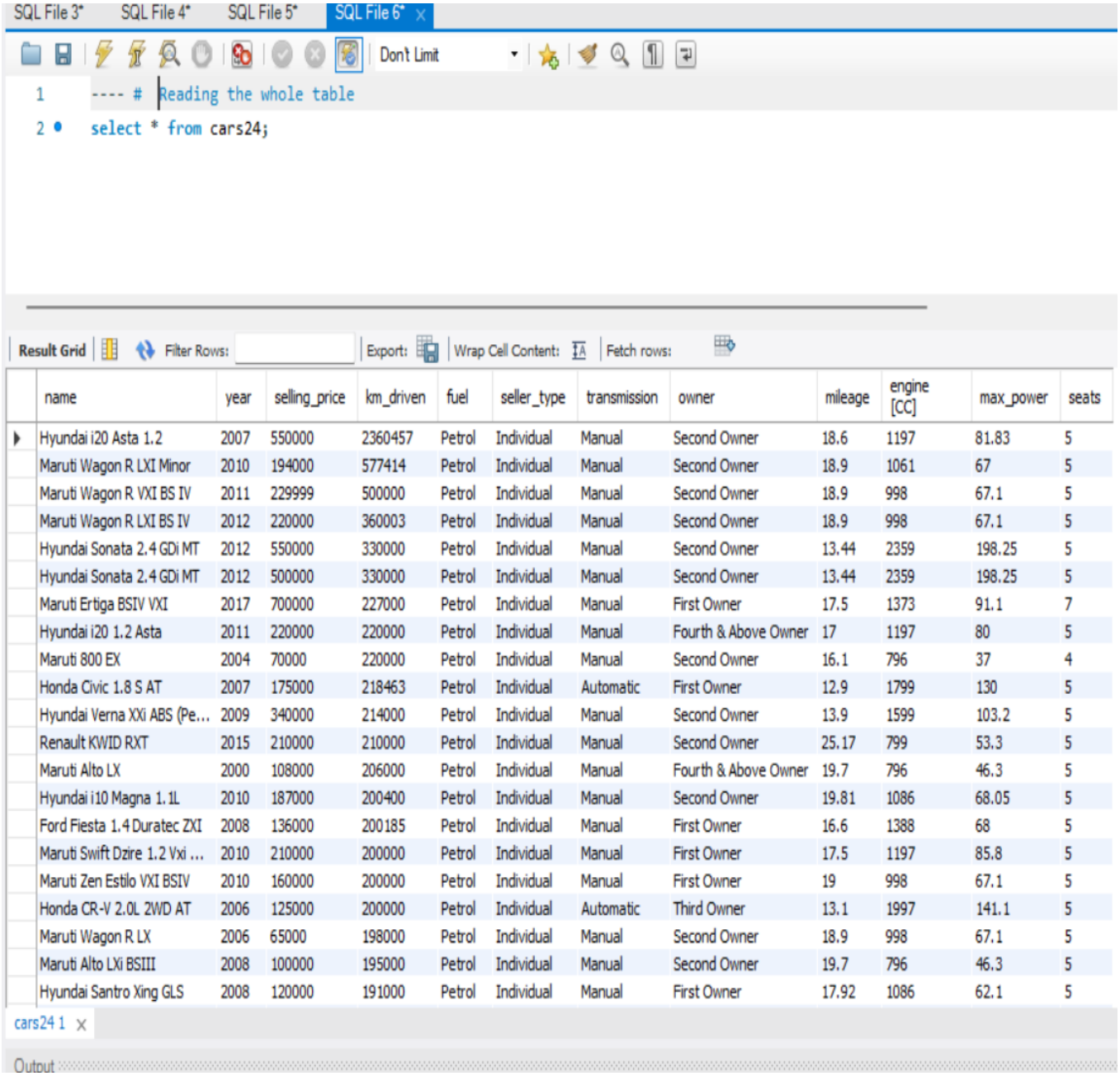
# Data Analytics SQL Mini – Project 1

## Insight Number 1 –

- **Reading the whole table**

**Select * from cars24;**

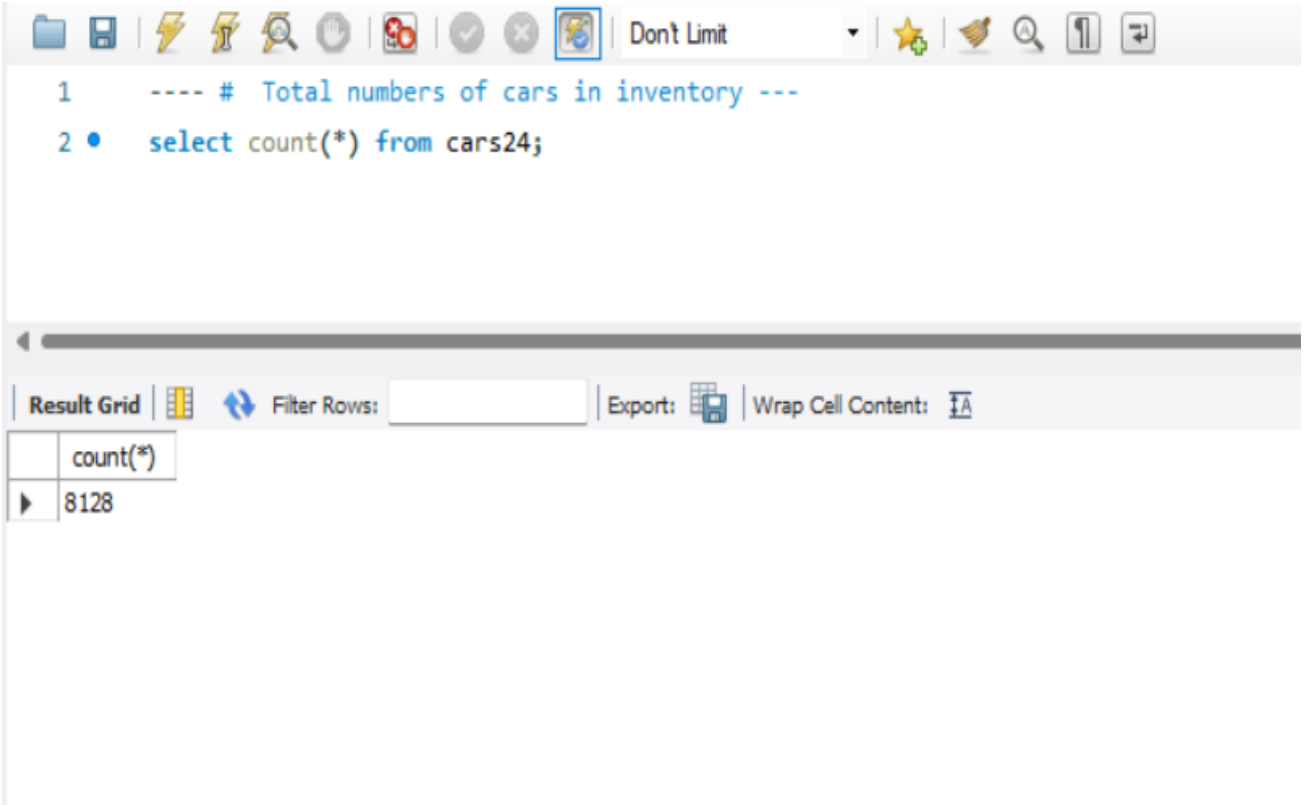



| name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine [CC] | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hyundai i20 Asta 1.2 | 2007 | 550000 | 2360457 | Petrol | Individual | Manual | Second Owner | 18.6 | 1197 | 81.83 | 5 |
| Maruti Wagon R LXI Minor | 2010 | 194000 | 577414 | Petrol | Individual | Manual | Second Owner | 18.9 | 1061 | 67 | 5 |
| Maruti Wagon R VXI BS IV | 2011 | 229999 | 500000 | Petrol | Individual | Manual | Second Owner | 18.9 | 998 | 67.1 | 5 |
| Maruti Wagon R LXI BS IV | 2012 | 220000 | 360003 | Petrol | Individual | Manual | Second Owner | 18.9 | 998 | 67.1 | 5 |
| Hyundai Sonata 2.4 GDi MT | 2012 | 550000 | 330000 | Petrol | Individual | Manual | Second Owner | 13.44 | 2359 | 198.25 | 5 |
| Hyundai Sonata 2.4 GDi MT | 2012 | 500000 | 330000 | Petrol | Individual | Manual | Second Owner | 13.44 | 2359 | 198.25 | 5 |
| Maruti Ertiga BSIV VXI | 2017 | 700000 | 227000 | Petrol | Individual | Manual | First Owner | 17.5 | 1373 | 91.1 | 7 |
| Hyundai i20 1.2 Asta | 2011 | 220000 | 220000 | Petrol | Individual | Manual | Fourth & Above Owner | 17 | 1197 | 80 | 5 |
| Maruti 800 EX | 2004 | 70000 | 220000 | Petrol | Individual | Manual | Second Owner | 16.1 | 796 | 37 | 4 |
| Honda Civic 1.8 S AT | 2007 | 175000 | 218463 | Petrol | Individual | Automatic | First Owner | 12.9 | 1799 | 130 | 5 |
| Hyundai Verna XXi ABS (Pe... | 2009 | 340000 | 214000 | Petrol | Individual | Manual | Second Owner | 13.9 | 1599 | 103.2 | 5 |
| Renault KWID RXT | 2015 | 210000 | 210000 | Petrol | Individual | Manual | Second Owner | 25.17 | 799 | 53.3 | 5 |
| Maruti Alto LX | 2000 | 108000 | 206000 | Petrol | Individual | Manual | Fourth & Above Owner | 19.7 | 796 | 46.3 | 5 |
| Hyundai i10 Magna 1.1L | 2010 | 187000 | 200400 | Petrol | Individual | Manual | Second Owner | 19.81 | 1086 | 68.05 | 5 |
| Ford Fiesta 1.4 Duratec ZXI | 2008 | 136000 | 200185 | Petrol | Individual | Manual | First Owner | 16.6 | 1388 | 68 | 5 |
| Maruti Swift Dzire 1.2 Vxi ... | 2010 | 210000 | 200000 | Petrol | Individual | Manual | First Owner | 17.5 | 1197 | 85.8 | 5 |
| Maruti Zen Estilo VXI BSIV | 2010 | 160000 | 200000 | Petrol | Individual | Manual | First Owner | 19 | 998 | 67.1 | 5 |
| Honda CR-V 2.0L 2WD AT | 2006 | 125000 | 200000 | Petrol | Individual | Automatic | Third Owner | 13.1 | 1997 | 141.1 | 5 |
| Maruti Wagon R LX | 2006 | 65000 | 198000 | Petrol | Individual | Manual | Second Owner | 18.9 | 998 | 67.1 | 5 |
| Maruti Alto LXi BSIII | 2008 | 100000 | 195000 | Petrol | Individual | Manual | Second Owner | 19.7 | 796 | 46.3 | 5 |
| Hyundai Santro Xing GLS | 2008 | 120000 | 191000 | Petrol | Individual | Manual | First Owner | 17.92 | 1086 | 62.1 | 5 |

**Insight Number 2 –**

- **Total numbers of cars in inventory**

**Select count(*) from cars24;**



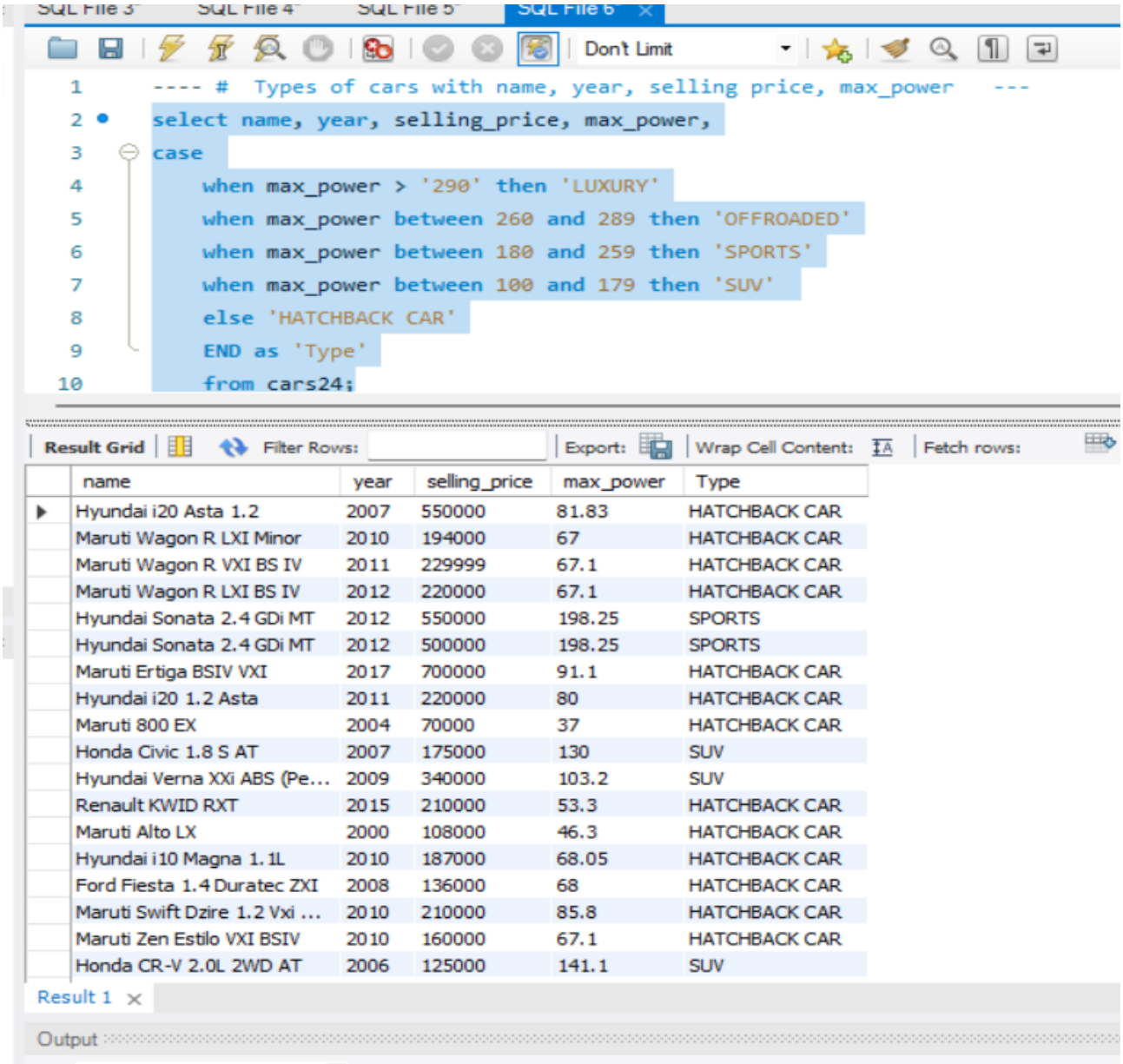

**Insight Number 3 –**

- **Type of cars with name, year, selling price and Max power.**

**Select name, year, selling_price, max_power,**

**Case**

```
when max_power > '290' then 'LUXURY'
 when max_power between 260 and 289 then 'OFFROADED'
when max_power between 180 and 259 then 'SPORTS'
when max_power between 100 and 179 then 'SUV'
else 'HATCHBACK CAR'
END as 'Type'
from cars24;
```



```
1   ---- #  Types of cars with name, year, selling price, max_power   ---
2   select name, year, selling_price, max_power,
3   case
4       when max_power > '290' then 'LUXURY'
5       when max_power between 260 and 289 then 'OFFROADED'
6       when max_power between 180 and 259 then 'SPORTS'
7       when max_power between 100 and 179 then 'SUV'
8       else 'HATCHBACK CAR'
9       END as 'Type'
10      from cars24;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

| name | year | selling_price | max_power | Type |
|---|---|---|---|---|
| Hyundai i20 Asta 1.2 | 2007 | 550000 | 81.83 | HATCHBACK CAR |
| Maruti Wagon R LXI Minor | 2010 | 194000 | 67 | HATCHBACK CAR |
| Maruti Wagon R VXI BS IV | 2011 | 229999 | 67.1 | HATCHBACK CAR |
| Maruti Wagon R LXI BS IV | 2012 | 220000 | 67.1 | HATCHBACK CAR |
| Hyundai Sonata 2.4 GDi MT | 2012 | 550000 | 198.25 | SPORTS |
| Hyundai Sonata 2.4 GDi MT | 2012 | 500000 | 198.25 | SPORTS |
| Maruti Ertiga BSIV VXI | 2017 | 700000 | 91.1 | HATCHBACK CAR |
| Hyundai i20 1.2 Asta | 2011 | 220000 | 80 | HATCHBACK CAR |
| Maruti 800 EX | 2004 | 70000 | 37 | HATCHBACK CAR |
| Honda Civic 1.8 S AT | 2007 | 175000 | 130 | SUV |
| Hyundai Verna XXi ABS (Pe... | 2009 | 340000 | 103.2 | SUV |
| Renault KWID RXT | 2015 | 210000 | 53.3 | HATCHBACK CAR |
| Maruti Alto LX | 2000 | 108000 | 46.3 | HATCHBACK CAR |
| Hyundai i10 Magna 1.1L | 2010 | 187000 | 68.05 | HATCHBACK CAR |
| Ford Fiesta 1.4 Duratec ZXI | 2008 | 136000 | 68 | HATCHBACK CAR |
| Maruti Swift Dzire 1.2 Vxi ... | 2010 | 210000 | 85.8 | HATCHBACK CAR |
| Maruti Zen Estilo VXI BSIV | 2010 | 160000 | 67.1 | HATCHBACK CAR |
| Honda CR-V 2.0L 2WD AT | 2006 | 125000 | 141.1 | SUV |

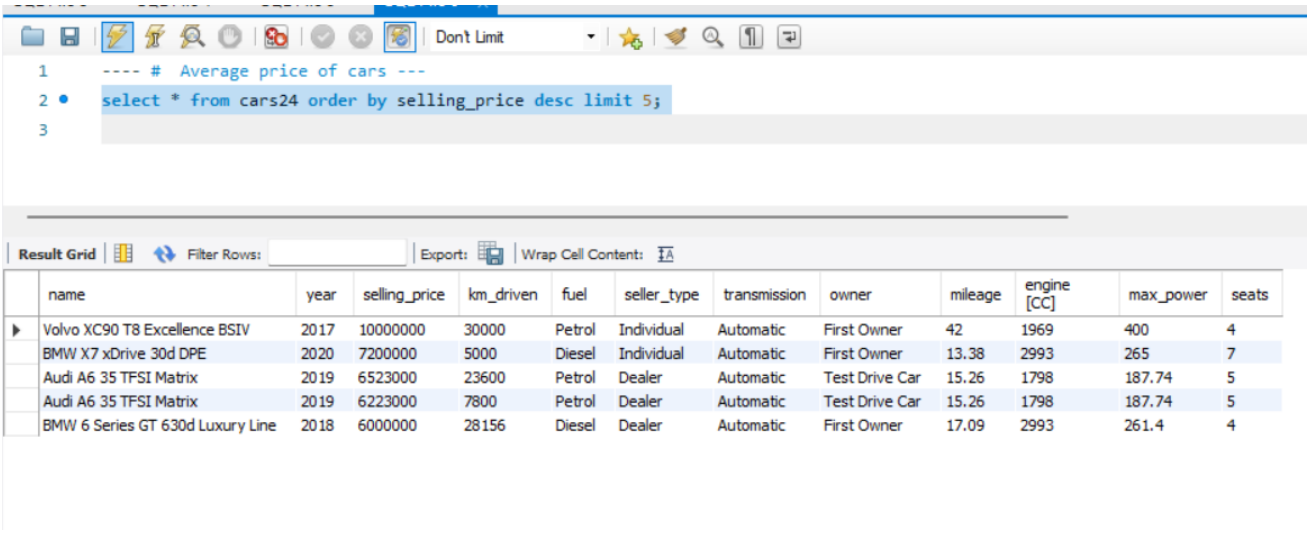
Result 1

Output

## Insight Number 4 –

- **Top 5 most expensive cars**

**Select * from cars24 order by selling_price desc limit 5;**



```
1    ---- #  Average price of cars ---
2 •  select * from cars24 order by selling_price desc limit 5;
3
```

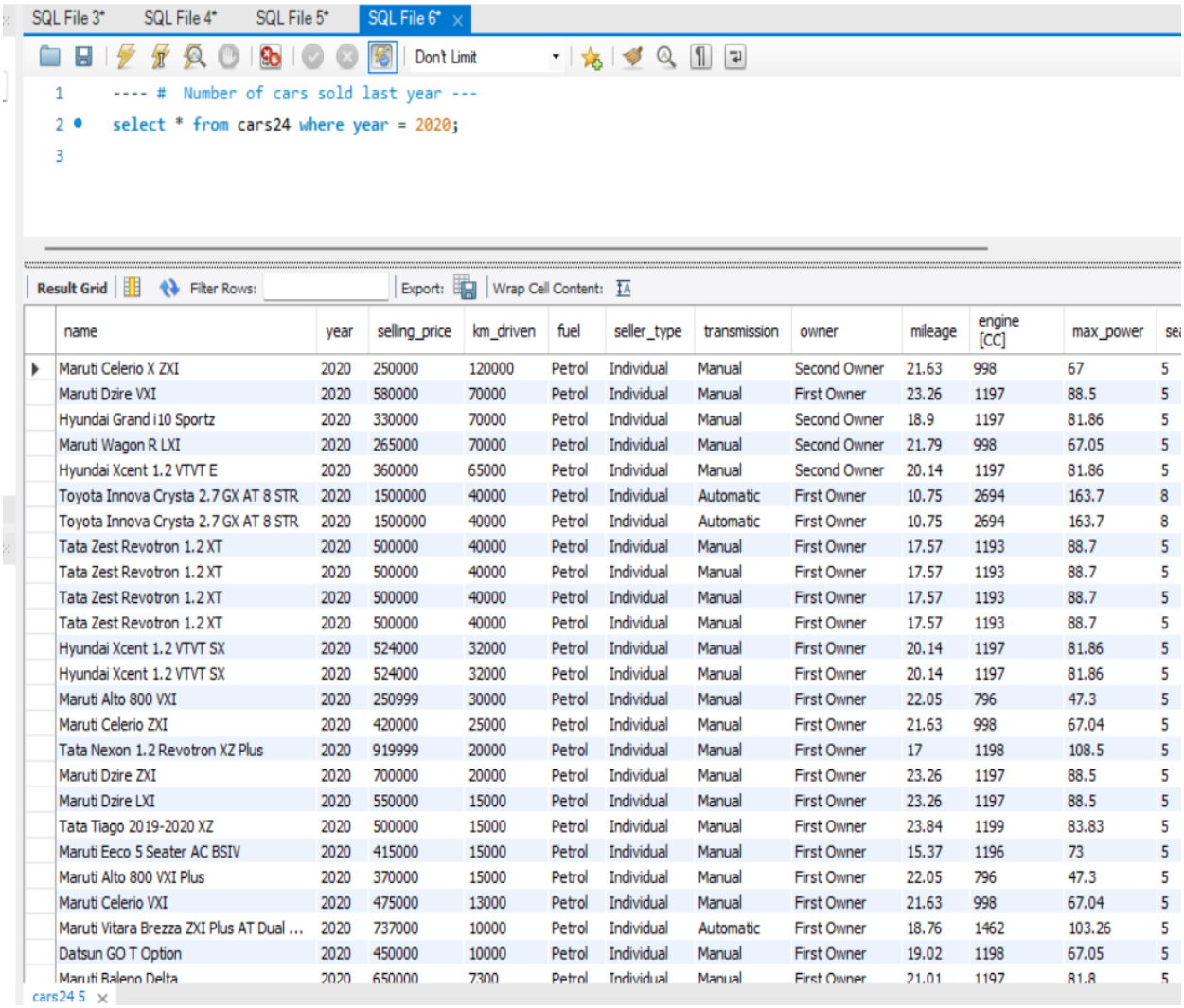
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine [CC] | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volvo XC90 T8 Excellence BSIV | 2017 | 10000000 | 30000 | Petrol | Individual | Automatic | First Owner | 42 | 1969 | 400 | 4 |
| BMW X7 xDrive 30d DPE | 2020 | 7200000 | 5000 | Diesel | Individual | Automatic | First Owner | 13.38 | 2993 | 265 | 7 |
| Audi A6 35 TFSI Matrix | 2019 | 6523000 | 23600 | Petrol | Dealer | Automatic | Test Drive Car | 15.26 | 1798 | 187.74 | 5 |
| Audi A6 35 TFSI Matrix | 2019 | 6223000 | 7800 | Petrol | Dealer | Automatic | Test Drive Car | 15.26 | 1798 | 187.74 | 5 |
| BMW 6 Series GT 630d Luxury Line | 2018 | 6000000 | 28156 | Diesel | Dealer | Automatic | First Owner | 17.09 | 2993 | 261.4 | 4 |

## Insight Number 5 –

- **Number of cars sold in last  year**

**Select * from cars24 where year = 2020;**



SQL File 3* SQL File 4* SQL File 5* SQL File 6*

Don't Limit

```
1   ---- #  Number of cars sold last year ---
2 • select * from cars24 where year = 2020;
3
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

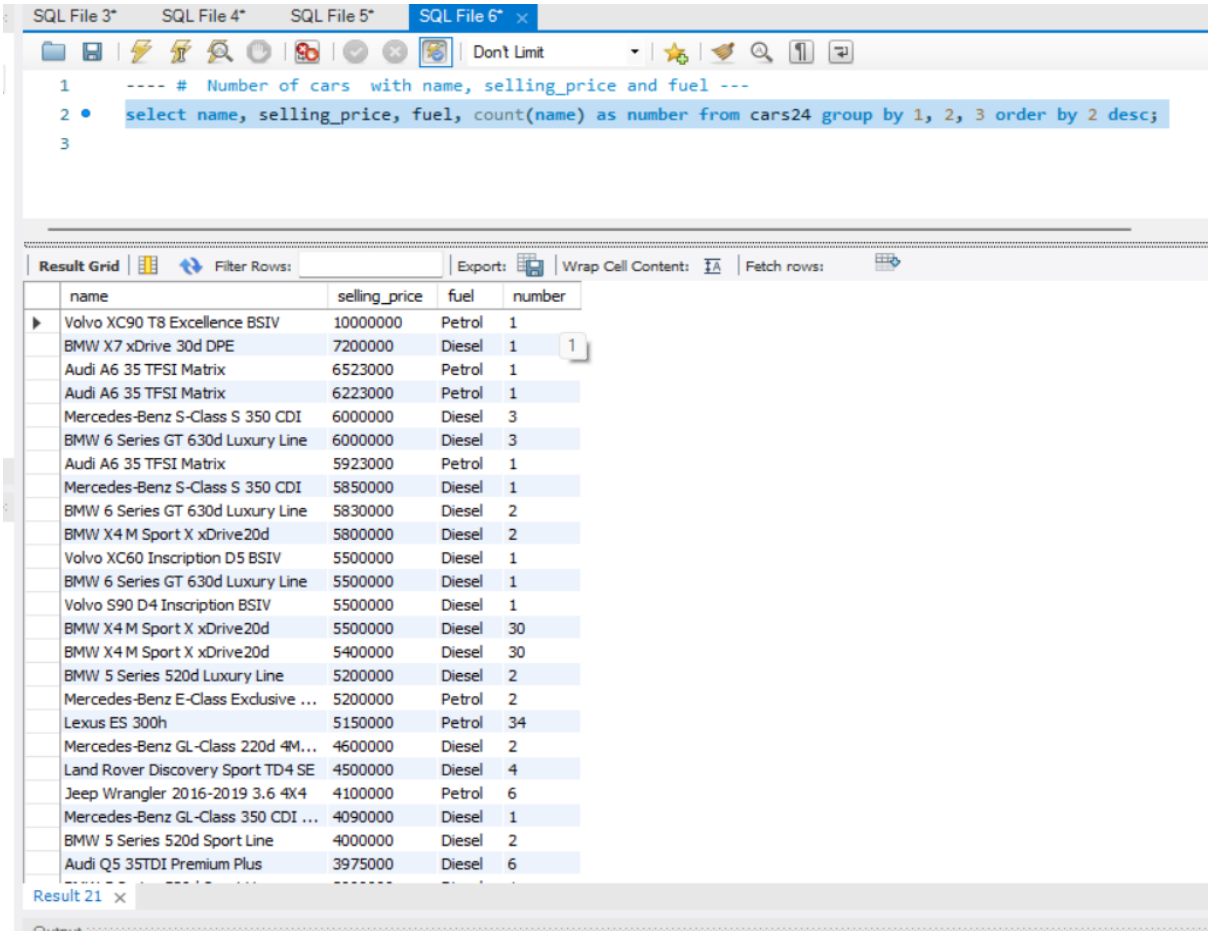
| name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine [CC] | max_power | se |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Maruti Celerio X ZXI | 2020 | 250000 | 120000 | Petrol | Individual | Manual | Second Owner | 21.63 | 998 | 67 | 5 |
| Maruti Dzire VXI | 2020 | 580000 | 70000 | Petrol | Individual | Manual | First Owner | 23.26 | 1197 | 88.5 | 5 |
| Hyundai Grand i10 Sportz | 2020 | 330000 | 70000 | Petrol | Individual | Manual | Second Owner | 18.9 | 1197 | 81.86 | 5 |
| Maruti Wagon R LXI | 2020 | 265000 | 70000 | Petrol | Individual | Manual | Second Owner | 21.79 | 998 | 67.05 | 5 |
| Hyundai Xcent 1.2 VTVT E | 2020 | 360000 | 65000 | Petrol | Individual | Manual | Second Owner | 20.14 | 1197 | 81.86 | 5 |
| Toyota Innova Crysta 2.7 GX AT 8 STR | 2020 | 1500000 | 40000 | Petrol | Individual | Automatic | First Owner | 10.75 | 2694 | 163.7 | 8 |
| Toyota Innova Crysta 2.7 GX AT 8 STR | 2020 | 1500000 | 40000 | Petrol | Individual | Automatic | First Owner | 10.75 | 2694 | 163.7 | 8 |
| Tata Zest Revotron 1.2 XT | 2020 | 500000 | 40000 | Petrol | Individual | Manual | First Owner | 17.57 | 1193 | 88.7 | 5 |
| Tata Zest Revotron 1.2 XT | 2020 | 500000 | 40000 | Petrol | Individual | Manual | First Owner | 17.57 | 1193 | 88.7 | 5 |
| Tata Zest Revotron 1.2 XT | 2020 | 500000 | 40000 | Petrol | Individual | Manual | First Owner | 17.57 | 1193 | 88.7 | 5 |
| Tata Zest Revotron 1.2 XT | 2020 | 500000 | 40000 | Petrol | Individual | Manual | First Owner | 17.57 | 1193 | 88.7 | 5 |
| Hyundai Xcent 1.2 VTVT SX | 2020 | 524000 | 32000 | Petrol | Individual | Manual | First Owner | 20.14 | 1197 | 81.86 | 5 |
| Hyundai Xcent 1.2 VTVT SX | 2020 | 524000 | 32000 | Petrol | Individual | Manual | First Owner | 20.14 | 1197 | 81.86 | 5 |
| Maruti Alto 800 VXI | 2020 | 250999 | 30000 | Petrol | Individual | Manual | First Owner | 22.05 | 796 | 47.3 | 5 |
| Maruti Celerio ZXI | 2020 | 420000 | 25000 | Petrol | Individual | Manual | First Owner | 21.63 | 998 | 67.04 | 5 |
| Tata Nexon 1.2 Revotron XZ Plus | 2020 | 919999 | 20000 | Petrol | Individual | Manual | First Owner | 17 | 1198 | 108.5 | 5 |
| Maruti Dzire ZXI | 2020 | 700000 | 20000 | Petrol | Individual | Manual | First Owner | 23.26 | 1197 | 88.5 | 5 |
| Maruti Dzire LXI | 2020 | 550000 | 15000 | Petrol | Individual | Manual | First Owner | 23.26 | 1197 | 88.5 | 5 |
| Tata Tiago 2019-2020 XZ | 2020 | 500000 | 15000 | Petrol | Individual | Manual | First Owner | 23.84 | 1199 | 83.83 | 5 |
| Maruti Eeco 5 Seater AC BSIV | 2020 | 415000 | 15000 | Petrol | Individual | Manual | First Owner | 15.37 | 1196 | 73 | 5 |
| Maruti Alto 800 VXI Plus | 2020 | 370000 | 15000 | Petrol | Individual | Manual | First Owner | 22.05 | 796 | 47.3 | 5 |
| Maruti Celerio VXI | 2020 | 475000 | 13000 | Petrol | Individual | Manual | First Owner | 21.63 | 998 | 67.04 | 5 |
| Maruti Vitara Brezza ZXI Plus AT Dual ... | 2020 | 737000 | 10000 | Petrol | Individual | Automatic | First Owner | 18.76 | 1462 | 103.26 | 5 |
| Datsun GO T Option | 2020 | 450000 | 10000 | Petrol | Individual | Manual | First Owner | 19.02 | 1198 | 67.05 | 5 |
| Maruti Baleno Delta | 2020 | 650000 | 7300 | Petrol | Individual | Manual | First Owner | 21.01 | 1197 | 81.8 | 5 |

cars24 5

## Insight Number 6 –

- **Number of cars with name, selling_price and fuel in desc form.**

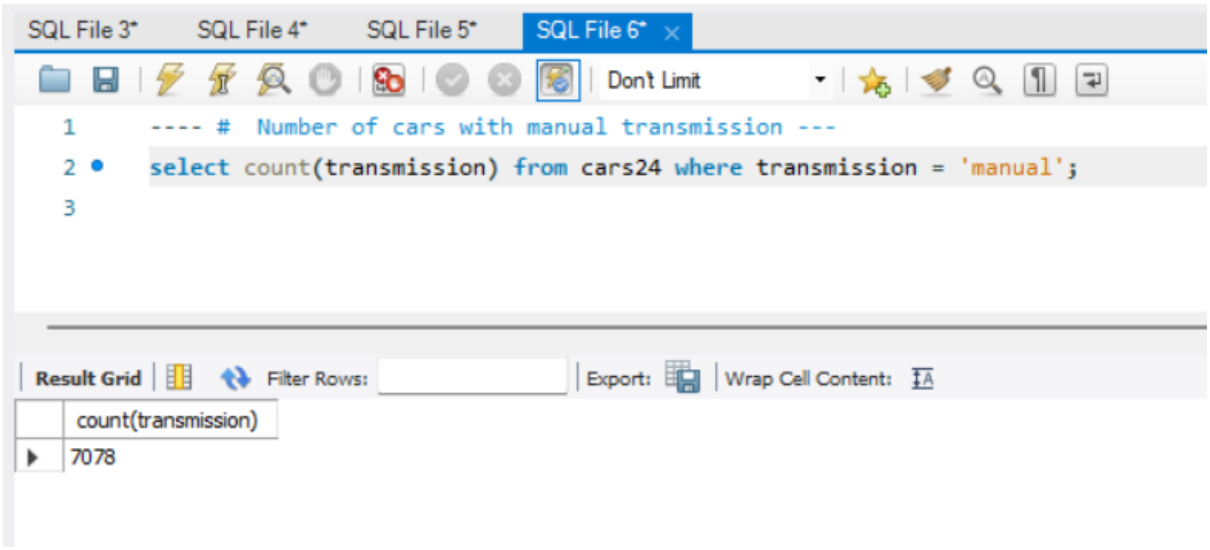
**Select name, selling_price, fuel, count(name) as number from cars24 group by 1, 2, 3 order by 2 desc;**




## Insight Number 7 –

- **Number of cars with manual Transmission**

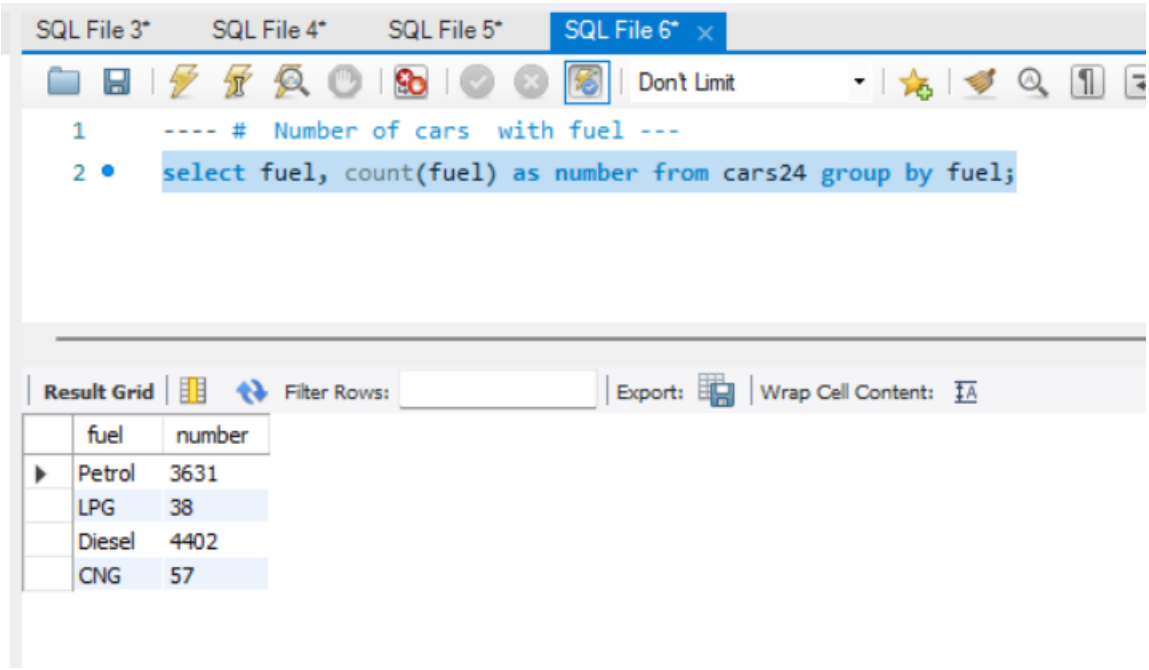
**Select count(Transmission) from cars24 where transmission = ‘manual’;**



**Insight Number 8 –**

- **Number of cars with fuel.**

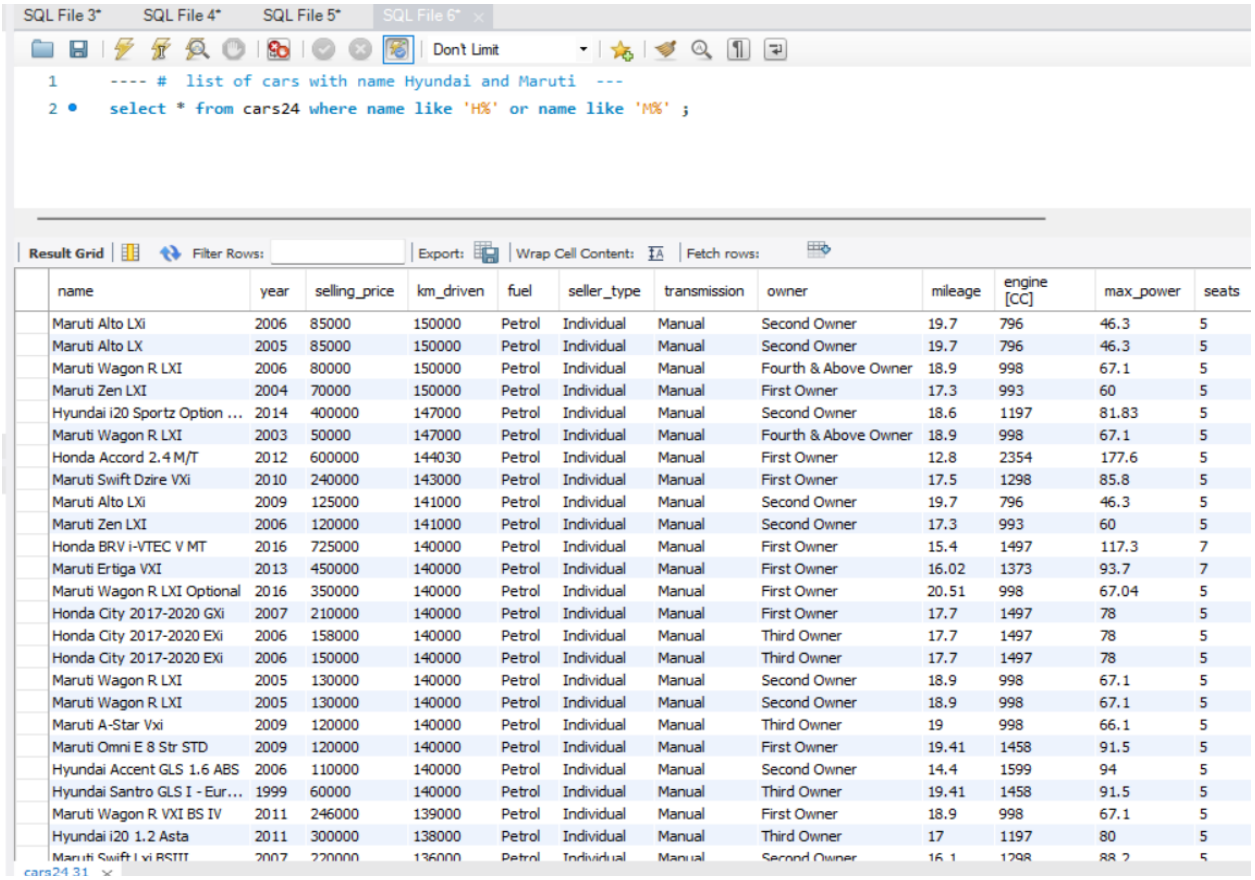
**Select fuel, count(fuel) as number from cars24 group by fuel;**




**Insight Number 9 –**

- **List of cars with name Hyundai and Maruti.**

**Select * from cars24 where name like ‘H%’ or name like ‘M%’;**

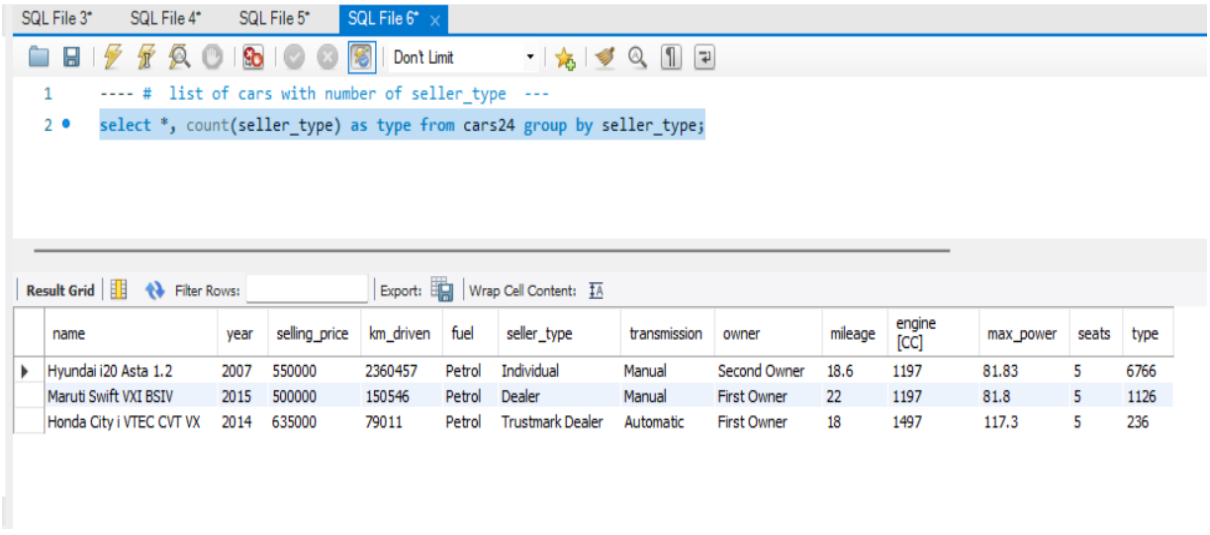



| name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine [CC] | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Maruti Alto LXi | 2006 | 85000 | 150000 | Petrol | Individual | Manual | Second Owner | 19.7 | 796 | 46.3 | 5 |
| Maruti Alto LX | 2005 | 85000 | 150000 | Petrol | Individual | Manual | Second Owner | 19.7 | 796 | 46.3 | 5 |
| Maruti Wagon R LXI | 2006 | 80000 | 150000 | Petrol | Individual | Manual | Fourth & Above Owner | 18.9 | 998 | 67.1 | 5 |
| Maruti Zen LXI | 2004 | 70000 | 150000 | Petrol | Individual | Manual | First Owner | 17.3 | 993 | 60 | 5 |
| Hyundai i20 Sportz Option ... | 2014 | 400000 | 147000 | Petrol | Individual | Manual | Second Owner | 18.6 | 1197 | 81.83 | 5 |
| Maruti Wagon R LXI | 2003 | 50000 | 147000 | Petrol | Individual | Manual | Fourth & Above Owner | 18.9 | 998 | 67.1 | 5 |
| Honda Accord 2.4 M/T | 2012 | 600000 | 144030 | Petrol | Individual | Manual | First Owner | 12.8 | 2354 | 177.6 | 5 |
| Maruti Swift Dzire VXi | 2010 | 240000 | 143000 | Petrol | Individual | Manual | First Owner | 17.5 | 1298 | 85.8 | 5 |
| Maruti Alto LXi | 2009 | 125000 | 141000 | Petrol | Individual | Manual | Second Owner | 19.7 | 796 | 46.3 | 5 |
| Maruti Zen LXI | 2006 | 120000 | 141000 | Petrol | Individual | Manual | Second Owner | 17.3 | 993 | 60 | 5 |
| Honda BRV i-VTEC V MT | 2016 | 725000 | 140000 | Petrol | Individual | Manual | First Owner | 15.4 | 1497 | 117.3 | 7 |
| Maruti Ertiga VXI | 2013 | 450000 | 140000 | Petrol | Individual | Manual | First Owner | 16.02 | 1373 | 93.7 | 7 |
| Maruti Wagon R LXI Optional | 2016 | 350000 | 140000 | Petrol | Individual | Manual | First Owner | 20.51 | 998 | 67.04 | 5 |
| Honda City 2017-2020 GXi | 2007 | 210000 | 140000 | Petrol | Individual | Manual | First Owner | 17.7 | 1497 | 78 | 5 |
| Honda City 2017-2020 EXi | 2006 | 158000 | 140000 | Petrol | Individual | Manual | Third Owner | 17.7 | 1497 | 78 | 5 |
| Honda City 2017-2020 EXi | 2006 | 150000 | 140000 | Petrol | Individual | Manual | Third Owner | 17.7 | 1497 | 78 | 5 |
| Maruti Wagon R LXI | 2005 | 130000 | 140000 | Petrol | Individual | Manual | Second Owner | 18.9 | 998 | 67.1 | 5 |
| Maruti Wagon R LXI | 2005 | 130000 | 140000 | Petrol | Individual | Manual | Second Owner | 18.9 | 998 | 67.1 | 5 |
| Maruti A-Star Vxi | 2009 | 120000 | 140000 | Petrol | Individual | Manual | Third Owner | 19 | 998 | 66.1 | 5 |
| Maruti Omni E 8 Str STD | 2009 | 120000 | 140000 | Petrol | Individual | Manual | First Owner | 19.41 | 1458 | 91.5 | 5 |
| Hyundai Accent GLS 1.6 ABS | 2006 | 110000 | 140000 | Petrol | Individual | Manual | Second Owner | 14.4 | 1599 | 94 | 5 |
| Hyundai Santro GLS I - Eur... | 1999 | 60000 | 140000 | Petrol | Individual | Manual | Third Owner | 19.41 | 1458 | 91.5 | 5 |
| Maruti Wagon R VXI BS IV | 2011 | 246000 | 139000 | Petrol | Individual | Manual | First Owner | 18.9 | 998 | 67.1 | 5 |
| Hyundai i20 1.2 Asta | 2011 | 300000 | 138000 | Petrol | Individual | Manual | Third Owner | 17 | 1197 | 80 | 5 |
| Maruti Swift Lxi BSIII | 2007 | 220000 | 136000 | Petrol | Individual | Manual | Second Owner | 16.1 | 1298 | 88.2 | 5 |

## Insight Number 10 –

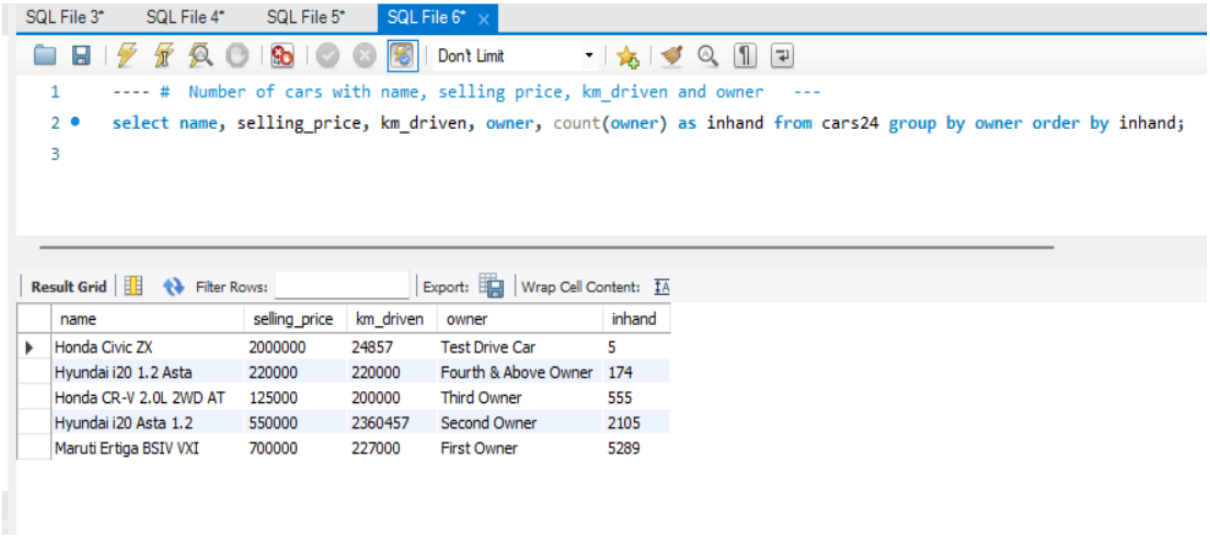
- **List of cars with number of seller_type**

**Select *, count(seller_type) as type from cars24 group by seller_type;**




| name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine [CC] | max_power | seats | type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hyundai i20 Asta 1.2 | 2007 | 550000 | 2360457 | Petrol | Individual | Manual | Second Owner | 18.6 | 1197 | 81.83 | 5 | 6766 |
| Maruti Swift VXI BSIV | 2015 | 500000 | 150546 | Petrol | Dealer | Manual | First Owner | 22 | 1197 | 81.8 | 5 | 1126 |
| Honda City i VTEC CVT VX | 2014 | 635000 | 79011 | Petrol | Trustmark Dealer | Automatic | First Owner | 18 | 1497 | 117.3 | 5 | 236 |

**Insight Number 11 –**

- **Number of cars with name, selling price, km driven and owner.**

**Select name, selling_price, km_driven, owner, count(owner) as inhand from cars24 group by owner order by inhand;**