# Data Analytics SQL Mini-Project

**Insight number 1 -**

**-- Reading the whole table**

**select * from cars24**



**Insight number 2 -**

**-- IN 2012, how many total cars are sold?**

**select count(*) from cars24**
**where year = 2012;**

```
/* IN 2012, how many total cars are sold?*/

select count(*) from cars24
where year = 2012;
```

100 %   ▾  ◂

▦ Results  📑 Messages

| | (No column name) |
|---|---|
| 1 | 651 |

✅ Query executed successfully.                    INBOOK_X1_SLIM\SQLEXPRESS (...  INBOOK_X1_SLIM

**Insight number 3 -**

**-- Range between 500000 to 1000000, what cars are present in this range an asc order?**

**select * from cars24**
**where selling_price between 500000 and 1000000**
**order by selling_price;**

```
/* Range between 500000 to 1000000, what cars are present in this range an asc order?*/

select * from cars24
where selling_price between 500000 and 1000000
order by selling_price;
```

100 %  ◂

⊞ Results  ⊞ Messages

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 878 | Maruti Ertiga ZXI | 2014 | 599000 | 46100 | Petrol | Dealer | Manual | First Owner | 16.0200004577637 | 1373 | 93.6999969482422 | 7 |
| 879 | Maruti Ertiga VDI | 2013 | 599000 | 60000 | Die... | Individual | Manual | Second Owner | 20.7700004577637 | 1248 | 88.7600021362305 | 7 |
| 880 | Ford Ecosport 1.5 Diesel Titanium | 2015 | 599000 | 92651 | Die... | Dealer | Manual | First Owner | 21.7000007629395 | 1498 | 98.9599990844727 | 5 |
| 881 | Ford Ecosport 1.5 Diesel Titanium | 2015 | 599000 | 92651 | Die... | Dealer | Manual | First Owner | 21.7000007629395 | 1498 | 98.9599990844727 | 5 |
| 882 | Mahindra XUV500 W6 2WD | 2013 | 600000 | 91000 | Die... | Individual | Manual | First Owner | 15.1000003814697 | 2179 | 140 | 7 |
| 883 | Toyota Innova 2.5 EV (Diesel) PS 7 Seater... | 2013 | 600000 | 95000 | Die... | Individual | Manual | Second Owner | 12.9899997711182 | 2494 | 100.569999694824 | 7 |
| 884 | Maruti SX4 S Cross 2015-2017 DDiS 200 ... | 2017 | 600000 | 100000 | Die... | Individual | Manual | First Owner | 23.6499996185303 | 1248 | 88.5 | 5 |
| 885 | Mahindra NuvoSport N8 | 2016 | 600000 | 100000 | Die... | Individual | Manual | First Owner | 17.4500007629395 | 1493 | 100 | 7 |
| 886 | Maruti Swift Dzire VDI | 2015 | 600000 | 100000 | Die... | Individual | Manual | First Owner | 26.5900001525879 | 1248 | 74 | 5 |
| 887 | Hyundai i20 Asta 1.4 CRDi | 2014 | 600000 | 100000 | Die... | Individual | Manual | Fourth & Ab... | 22.5400009155273 | 1396 | 88.7300033569336 | 5 |
| 888 | Mahindra TUV 300 T8 AMT | 2016 | 600000 | 90000 | Die... | Individual | Automatic | Second Owner | 18.4899997711182 | 1493 | 100 | 7 |
| 889 | Renault Duster 85PS Diesel RxE | 2016 | 600000 | 90000 | Die... | Individual | Manual | Second Owner | 19.8700008392334 | 1461 | 83.8000030517578 | 5 |
| 890 | Ford EcoSport 1.5 TDCi Titanium Plus BSIV | 2015 | 600000 | 90000 | Die... | Individual | Manual | First Owner | 22.7700004577637 | 1498 | 98.5899963378906 | 5 |
| 891 | Honda Jazz 1.5 V i DTEC | 2015 | 600000 | 90000 | Die... | Individual | Manual | First Owner | 27.2999992370605 | 1498 | 98.5999984741211 | 5 |
| 892 | Maruti Ertiga VDI | 2015 | 600000 | 90000 | Die... | Individual | Manual | Third Owner | 20.7700004577637 | 1248 | 88.7600021362305 | 7 |
| 893 | Chevrolet Tavera Neo 3 LT 9 Seats BSIII | 2014 | 600000 | 90000 | Die... | Individual | Manual | Second Owner | 13.5799999237061 | 2499 | 72.4000015258789 | 9 |
| 894 | Honda City i DTEC SV | 2014 | 600000 | 90000 | Die... | Individual | Manual | First Owner | 26 | 1498 | 98.5999984741211 | 5 |
| 895 | Maruti Swift Dzire ZDI | 2014 | 600000 | 90000 | Die... | Individual | Manual | First Owner | 23.3999996185303 | 1248 | 74 | 5 |
| 896 | Chevrolet Tavera Neo 3 LT 9 Seats BSIII | 2013 | 600000 | 90000 | Die... | Individual | Manual | First Owner | 13.5799999237061 | 2499 | 72.4000015258789 | 9 |
| 897 | Skoda Superb Elegance 2.0 TDI CR AT | 2013 | 600000 | 90000 | Die... | Individual | Automatic | First Owner | 17.2000007629395 | 1968 | 138.100006103516 | 5 |

**Insight number 4 -**

**--Get me all the cars whose selling price is greater the average selling price of all the available cars?**

**select\* from cars24**
**where selling_price>(select avg(cast(selling_price as bigint)) from cars24);**

```sql
/* Get me all the cars whose selling price is greater the average selling price of all the available cars?*/

select* from cars24
where selling_price>(select avg(cast(selling_price as bigint)) from cars24);
```

**Results**  **Messages**

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 263 | Lexus ES 300h | 2019 | 5150000 | 20000 | Petrol | Dealer | Automatic | First Owner | 22.3700008392334 | 2487 | 214.559997558594 | 5 |
| 264 | Honda City VX CVT | 2019 | 1300000 | 20000 | Petrol | Individual | Automatic | First Owner | 17.3999996185303 | 1497 | 117.599998474121 | 5 |
| 265 | Hyundai Verna VTVT 1.6 AT SX Option | 2019 | 1270000 | 20000 | Petrol | Individual | Automatic | First Owner | 17 | 1591 | 121.300003051758 | 5 |
| 266 | Mahindra XUV300 W8 Option BSIV | 2019 | 1132000 | 20000 | Petrol | Individual | Manual | First Owner | 17 | 1197 | 110 | 5 |
| 267 | Honda City i-VTEC CVT ZX | 2017 | 1100000 | 20000 | Petrol | Individual | Automatic | First Owner | 18 | 1497 | 117.599998474121 | 5 |
| 268 | Hyundai Verna VTVT 1.6 AT SX Option | 2017 | 990000 | 20000 | Petrol | Individual | Automatic | First Owner | 17 | 1591 | 121.300003051758 | 5 |
| 269 | Mahindra XUV300 W8 | 2019 | 960000 | 20000 | Petrol | Individual | Manual | First Owner | 17 | 1197 | 108.599998474121 | 5 |
| 270 | Hyundai Verna VTVT 1.6 SX | 2017 | 950000 | 20000 | Petrol | Individual | Manual | First Owner | 17 | 1591 | 121.300003051758 | 5 |
| 271 | Tata Nexon 1.2 Revotron XZ Plus | 2020 | 919999 | 20000 | Petrol | Individual | Manual | First Owner | 17 | 1198 | 108.5 | 5 |
| 272 | Hyundai Verna VTVT 1.6 SX | 2017 | 900000 | 20000 | Petrol | Individual | Manual | First Owner | 17 | 1591 | 121.300003051758 | 5 |
| 273 | Maruti Ertiga BSIV ZXI Plus | 2016 | 850000 | 20000 | Petrol | Individual | Manual | First Owner | 17.5 | 1373 | 91.0999984741211 | 7 |
| 274 | Hyundai i20 1.2 Asta Option | 2018 | 801000 | 20000 | Petrol | Individual | Manual | First Owner | 18.6000003814697 | 1197 | 81.8300018310547 | 5 |
| 275 | Hyundai Verna 1.6 VTVT S Option | 2016 | 760000 | 20000 | Petrol | Individual | Manual | First Owner | 17.0100002288818 | 1591 | 121.400001525879 | 5 |
| 276 | Maruti Ertiga BSIV ZXI Plus | 2016 | 750000 | 20000 | Petrol | Individual | Manual | First Owner | 17.5 | 1373 | 91.0999984741211 | 7 |
| 277 | Maruti Swift ZXI Plus | 2018 | 720000 | 20000 | Petrol | Individual | Manual | First Owner | 22 | 1197 | 81.8000030517578 | 5 |
| 278 | Maruti Dzire ZXI | 2020 | 700000 | 20000 | Petrol | Individual | Manual | First Owner | 23.2600002288818 | 1197 | 88.5 | 5 |
| 279 | Hyundai i20 Active SX Petrol | 2019 | 700000 | 20000 | Petrol | Individual | Manual | First Owner | 17.1900005340576 | 1197 | 81.8600006103516 | 5 |
| 280 | Maruti Swift AMT ZXI Plus BSIV | 2019 | 700000 | 20000 | Petrol | Individual | Automatic | First Owner | 22 | 1197 | 81.8000030517578 | 5 |
| 281 | Maruti Ciaz ZXi | 2016 | 700000 | 20000 | Petrol | Individual | Manual | First Owner | 20.7299995422363 | 1373 | 91.0999984741211 | 5 |
| 282 | Hyundai Elite i20 Sportz Plus CVT BSIV | 2019 | 695000 | 20000 | Petrol | Individual | Automatic | First Owner | 17.3999996185303 | 1197 | 81.8600006103516 | 5 |
| 283 | Hyundai i20 1.2 Asta Option | 2017 | 690000 | 20000 | Petrol | Individual | Manual | First Owner | 18.6000003814697 | 1197 | 81.8300018310547 | 5 |
| 284 | Hyundai i20 1.2 Asta Option | 2017 | 690000 | 20000 | Petrol | Individual | Manual | First Owner | 18.6000003814697 | 1197 | 81.8300018310547 | 5 |

✅ Query executed successfully.    INBOOK_X1_SLIM\SQLEXPRESS (...    INBOOK_X1_SLIM\OBA (63)    masai    00:00:00    2,369 rows

**Insight number 5 -**

**--Get all the cars whose seat more than 5**

**select * from cars24**
**where seats>5;**

```sql
/* Get all the cars whose seat more than 5*/

select * from cars24
where seats>5;
```

100 %

⊞ Results  ⊡ Messages

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Maruti Ertiga BSIV VXI | 2017 | 700000 | 227000 | Petrol | Individual | Manual | First Owner | 17.5 | 1373 | 91.0999984741211 | 7 |
| 2 | Maruti Gypsy King Soft Top | 1997 | 300000 | 186388 | Petrol | Individual | Manual | Second Owner | 14.8000001907349 | 1298 | 80 | 8 |
| 3 | Honda BRV i-VTEC V MT | 2016 | 725000 | 140000 | Petrol | Individual | Manual | First Owner | 15.3999996185303 | 1497 | 117.300003051758 | 7 |
| 4 | Maruti Ertiga VXI | 2013 | 450000 | 140000 | Petrol | Individual | Manual | First Owner | 16.0200004577637 | 1373 | 93.6999969482422 | 7 |
| 5 | Datsun GO Plus T | 2017 | 200000 | 140000 | Petrol | Individual | Manual | First Owner | 19.0200004577637 | 1198 | 67.0500030517578 | 7 |
| 6 | Honda BR-V i-VTEC E MT | 2017 | 595000 | 120000 | Petrol | Individual | Manual | First Owner | 15.3999996185303 | 1497 | 117.300003051758 | 7 |
| 7 | Maruti Ertiga ZXI | 2012 | 450000 | 120000 | Petrol | Individual | Manual | Second Owner | 16.0200004577637 | 1373 | 93.6999969482422 | 7 |
| 8 | Maruti Omni 8 Seater BSII | 2010 | 130000 | 120000 | Petrol | Individual | Manual | Third Owner | 19.7000007629395 | 796 | 35 | 8 |
| 9 | Maruti Omni 8 Seater BSII | 2008 | 100000 | 120000 | Petrol | Individual | Manual | Second Owner | 19.7000007629395 | 796 | 35 | 8 |
| 10 | Maruti Omni 8 Seater BSII | 2012 | 80000 | 120000 | Petrol | Individual | Manual | Second Owner | 19.7000007629395 | 796 | 35 | 8 |
| 11 | Mahindra KUV 100 mFALCON G80 K8 | 2016 | 426000 | 110000 | Petrol | Individual | Manual | First Owner | 18.1499996185303 | 1198 | 82 | 6 |
| 12 | Tata New Safari 4X2 | 2007 | 300000 | 110000 | Petrol | Individual | Manual | Second Owner | 12 | 2092 | 127 | 7 |
| 13 | Maruti Eeco 7 Seater Standard BSIV | 2011 | 180000 | 110000 | Petrol | Individual | Manual | Second Owner | 15.3699998855591 | 1196 | 73 | 7 |
| 14 | Maruti Eeco 7 Seater Standard BSIV | 2016 | 270000 | 100000 | Petrol | Individual | Manual | Third Owner | 15.3699998855591 | 1196 | 73 | 7 |
| 15 | Maruti Eeco 7 Seater Standard BSIV | 2016 | 270000 | 100000 | Petrol | Individual | Manual | Third Owner | 15.3699998855591 | 1196 | 73 | 7 |
| 16 | Maruti Eeco Smiles 7 Seater Standard | 2013 | 204999 | 100000 | Petrol | Individual | Manual | Third Owner | 15.1000003814697 | 1196 | 73 | 7 |
| 17 | Maruti Eeco 7 Seater Standard BSIV | 2011 | 160000 | 100000 | Petrol | Individual | Manual | Second Owner | 15.3699998855591 | 1196 | 73 | 7 |
| 18 | Maruti Ertiga VXI | 2015 | 600000 | 90000 | Petrol | Individual | Manual | First Owner | 16.0200004577637 | 1373 | 93.6999969482422 | 7 |
| 19 | Maruti Ertiga VXI | 2013 | 535000 | 90000 | Petrol | Individual | Manual | Third Owner | 16.0200004577637 | 1373 | 93.6999969482422 | 7 |
| 20 | Maruti Ertiga LXI | 2013 | 430000 | 90000 | Petrol | Individual | Manual | First Owner | 16.0200004577637 | 1373 | 93.6999969482422 | 7 |
| 21 | Maruti Omni E MPI STD BS IV | 2016 | 220000 | 90000 | Petrol | Individual | Manual | First Owner | 16.7999992370605 | 796 | 34.2000007629395 | 8 |
| 22 | Maruti Omni 8 Seater BSII | 2009 | 101000 | 90000 | Petrol | Individual | Manual | Fourth & Ab... | 19.7000007629395 | 796 | 35 | 8 |
| 23 | Maruti Ertiga ZXI | 2015 | 570000 | 80000 | Petrol | Individual | Manual | First Owner | 16.0200004577637 | 1373 | 93.6999969482422 | 7 |

**Insight number 6 -**

**--Top 3 cars that was sold in all the cars?**

**select top 3 CAST(NAME AS NVARCHAR(MAX)) AS car_name,count(*) AS cnt from cars24**
**group by CAST(NAME AS NVARCHAR(MAX))**
**order by cnt desc;**

```sql
/* Top 3 cars that was sold in all the cars?*/

select top 3 CAST(NAME AS NVARCHAR(MAX)) AS car_name,count(*) AS cnt from cars24
group by CAST(NAME AS NVARCHAR(MAX))
order by cnt desc;
```

100 %    ◄

⊞ Results  ▦ Messages

|   | car_name | cnt |
|---|---|---|
| 1 | Maruti Swift Dzire VDI | 162 |
| 2 | Maruti Alto 800 LXI | 82 |
| 3 | Maruti Alto LXi | 80 |

Query executed successfully.    INBOOK-X1-SLIM\SQLEXPRESS (    INBOOK-X1-SLIM\OBA (63)   maaai   00:00:00   3

**Insight number 7 -**

**--Get all the cars whose cars has been driven atmost 20000 kms, IN the desc order which cars has been driven?**

**select * from cars24**
**where km_driven<20000**
**order by km_driven DESC;**

```
/* Get all the cars whose cars has been driven atmost 20000 kms, IN the desc order which cars has been driven?*/

select * from cars24
where km_driven<20000
order by km_driven DESC;
```

Results | Messages

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | sea |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Maruti Eeco 7 Seater Standard BSIV | 2015 | 300000 | 19800 | Petrol | Individual | Manual | First Owner | 15.3699998855591 | 1196 | 73 | 7 |
| 2 | Tata Tigor 1.2 Revotron XZA | 2017 | 525000 | 19723 | Petrol | Dealer | Automatic | First Owner | 20.2999992370605 | 1199 | 84 | 5 |
| 3 | Tata Tigor 1.2 Revotron XZA | 2017 | 525000 | 19723 | Petrol | Dealer | Automatic | First Owner | 20.2999992370605 | 1199 | 84 | 5 |
| 4 | Mahindra KUV 100 G80 K4 Plus 5Str | 2018 | 445000 | 19700 | Petrol | Individual | Manual | First Owner | 18.1499996185303 | 1198 | 82 | 5 |
| 5 | Hyundai Creta 1.4 E Plus | 2019 | 990000 | 19600 | Diesel | Individual | Manual | First Owner | 22.1000003814697 | 1396 | 88.6999969482422 | 5 |
| 6 | Hyundai i20 1.2 Spotz | 2018 | 655000 | 19500 | Petrol | Individual | Manual | First Owner | 18.6000003814697 | 1197 | 81.8300018310547 | 5 |
| 7 | Hyundai Santro Magna | 2019 | 434999 | 19500 | Petrol | Dealer | Manual | First Owner | 20.2999992370605 | 1086 | 68.0699996948242 | 5 |
| 8 | Hyundai Santro Magna | 2019 | 434999 | 19500 | Petrol | Dealer | Manual | First Owner | 20.2999992370605 | 1086 | 68.0699996948242 | 5 |
| 9 | Ford Freestyle Titanium Petrol BSIV | 2018 | 700000 | 19100 | Petrol | Individual | Manual | First Owner | 19 | 1194 | 94.6800003051758 | 5 |
| 10 | Ford Freestyle Titanium Petrol BSIV | 2018 | 700000 | 19100 | Petrol | Individual | Manual | First Owner | 19 | 1194 | 94.6800003051758 | 5 |
| 11 | MG Hector Sharp AT BSIV | 2019 | 1750000 | 19000 | Petrol | Dealer | Automatic | First Owner | 13.960000038147 | 1451 | 141 | 5 |
| 12 | Hyundai Elite i20 Sportz Plus BSIV | 2019 | 700000 | 19000 | Petrol | Individual | Manual | First Owner | 18.6000003814697 | 1197 | 81.8600006103516 | 5 |
| 13 | Maruti Baleno Delta Automatic | 2019 | 685000 | 19000 | Petrol | Individual | Automatic | First Owner | 21.3999996185303 | 1197 | 83.0999984741211 | 5 |
| 14 | Hyundai i20 Active 1.2 S | 2017 | 600000 | 19000 | Petrol | Individual | Manual | First Owner | 17.1900005340576 | 1197 | 81.8600006103516 | 5 |
| 15 | Hyundai i20 1.2 Magna Executive | 2017 | 575000 | 19000 | Petrol | Individual | Manual | First Owner | 18.6000003814697 | 1197 | 81.8300018310547 | 5 |
| 16 | Maruti Ignis 1.2 AMT Zeta BSIV | 2019 | 570000 | 19000 | Petrol | Individual | Automatic | Second Owner | 20.8899993896484 | 1197 | 81.8000030517578 | 5 |
| 17 | Maruti Ignis 1.2 AMT Zeta BSIV | 2019 | 570000 | 19000 | Petrol | Individual | Automatic | Second Owner | 20.8899993896484 | 1197 | 81.8000030517578 | 5 |
| 18 | Volkswagen Polo 2015-2019 1.0 MPI Comfortline | 2018 | 565000 | 19000 | Petrol | Individual | Manual | First Owner | 18.7800006866455 | 999 | 75 | 5 |
| 19 | Maruti Wagon R VXI Optional | 2018 | 380000 | 19000 | Petrol | Individual | Manual | First Owner | 20.5100002288818 | 998 | 67.0400009155273 | 5 |
| 20 | Datsun GO T BSIV | 2016 | 329000 | 19000 | Petrol | Individual | Manual | First Owner | 20.6299991607666 | 1198 | 67 | 5 |

**Insight number 8 -**

**--Fetch all the cars name which is owned  by first owner?**

**select * from cars24**
**where owner LIKE 'First Owner**

```
/* Fetch all the cars name which is owned  by first owner?*/

select * from cars24
where owner LIKE 'First Owner';
```

100 %  ▾  ◄

⊞ Results  ⊡ Messages

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Maruti Ertiga BSIV VXI | 2017 | 700000 | 227000 | Petrol | Individual | Manual | First Owner | 17.5 | 1373 | 91.0999984741211 | 7 |
| 2 | Honda Civic 1.8 S AT | 2007 | 175000 | 218463 | Petrol | Individual | Automatic | First Owner | 12.8999996185303 | 1799 | 130 | 5 |
| 3 | Ford Fiesta 1.4 Duratec ZXI | 2008 | 136000 | 200185 | Petrol | Individual | Manual | First Owner | 16.6000003814697 | 1388 | 68 | 5 |
| 4 | Maruti Swift Dzire 1.2 Vxi BSIV | 2010 | 210000 | 200000 | Petrol | Individual | Manual | First Owner | 17.5 | 1197 | 85.8000030517578 | 5 |
| 5 | Maruti Zen Estilo VXI BSIV | 2010 | 160000 | 200000 | Petrol | Individual | Manual | First Owner | 19 | 998 | 67.0999984741211 | 5 |
| 6 | Hyundai Santro Xing GLS | 2008 | 120000 | 191000 | Petrol | Individual | Manual | First Owner | 17.9200000762939 | 1086 | 62.0999984741211 | 5 |
| 7 | Toyota Etios V | 2011 | 270000 | 167000 | Petrol | Individual | Manual | First Owner | 19.4099998474121 | 1458 | 91.5 | 5 |
| 8 | Toyota Etios V | 2011 | 270000 | 167000 | Petrol | Individual | Manual | First Owner | 19.4099998474121 | 1458 | 91.5 | 5 |
| 9 | Maruti Eeco 5 Seater AC BSIV | 2010 | 160000 | 162000 | Petrol | Individual | Manual | First Owner | 15.3699998855591 | 1196 | 73 | 5 |
| 10 | Hyundai Santro Xing XG | 2004 | 70000 | 158000 | Petrol | Individual | Manual | First Owner | 19.4099998474121 | 1458 | 91.5 | 5 |
| 11 | Maruti Swift VXI BSIV | 2015 | 500000 | 150546 | Petrol | Dealer | Manual | First Owner | 22 | 1197 | 81.8000030517578 | 5 |
| 12 | Tata Indigo GLX | 2011 | 150000 | 150000 | Petrol | Individual | Manual | First Owner | 12.8000001907349 | 1396 | 85 | 5 |
| 13 | Maruti Zen LXI | 2004 | 70000 | 150000 | Petrol | Individual | Manual | First Owner | 17.2999992370605 | 993 | 60 | 5 |
| 14 | Ford Fiesta 1.6 SXI ABS Duratec | 2006 | 130000 | 145000 | Petrol | Individual | Manual | First Owner | 19.4099998474121 | 1458 | 91.5 | 5 |
| 15 | Honda Accord 2.4 M/T | 2012 | 600000 | 144030 | Petrol | Individual | Manual | First Owner | 12.8000001907349 | 2354 | 177.600006103516 | 5 |
| 16 | Maruti Swift Dzire VXi | 2010 | 240000 | 143000 | Petrol | Individual | Manual | First Owner | 17.5 | 1298 | 85.8000030517578 | 5 |
| 17 | Honda BRV i-VTEC V MT | 2016 | 725000 | 140000 | Petrol | Individual | Manual | First Owner | 15.3999996185303 | 1497 | 117.300003051758 | 7 |
| 18 | Maruti Ertiga VXI | 2013 | 450000 | 140000 | Petrol | Individual | Manual | First Owner | 16.0200004577637 | 1373 | 93.6999969482422 | 7 |
| 19 | Maruti Wagon R LXI Optional | 2016 | 350000 | 140000 | Petrol | Individual | Manual | First Owner | 20.5100002288818 | 998 | 67.0400009155273 | 5 |
| 20 | Honda City 2017-2020 GXi | 2007 | 210000 | 140000 | Petrol | Individual | Manual | First Owner | 17.7000007629395 | 1497 | 78 | 5 |
| 21 | Datsun GO Plus T | 2017 | 200000 | 140000 | Petrol | Individual | Manual | First Owner | 19.0200004577637 | 1198 | 67.0500030517578 | 7 |
| 22 | Maruti Omni E 8 Str STD | 2009 | 120000 | 140000 | Petrol | Individual | Manual | First Owner | 19.4099998474121 | 1458 | 91.5 | 5 |
| 23 | Maruti Wagon R VXI BS IV | 2011 | 246000 | 139000 | Petrol | Individual | Manual | First Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 24 | Daewoo Matiz SD | 2001 | 45000 | 137000 | Petrol | Individual | Manual | First Owner | 18.5 | 796 | 53 | 5 |

✅ Query executed successfully.                                INBOOK_X1_SLIM\SQLEXPRESS (...   INBOOK_X1_SLIM\OBA (63)   masai   00:00:00

**Insight number 9 -**

**--Divide the cars into Entry level, Mid level, premium level for the following ranges**
**between 500000-1000000**
**between 1000000-50000000**
**more than 50000000**

**SELECT *,CASE**
**WHEN selling_price BETWEEN 500000 AND 1000000 THEN 'Entry level'**
**WHEN selling_price BETWEEN 1000000 AND 50000000 THEN 'MID level'**
**WHEN selling_price > 50000000 THEN 'Premium level'**
**else 'others'**
**end as 'levels'from cars24**
**order by selling_price;**

```sql
/* Divide the cars into Entry level, Mid level, premium level for the following ranges
between 500000-1000000
between 1000000-50000000
more than 50000000*/

SELECT *,CASE
WHEN selling_price BETWEEN 500000 AND 1000000 THEN 'Entry level'
WHEN selling_price BETWEEN 1000000 AND 50000000 THEN 'MID level'
WHEN selling_price > 50000000 THEN 'Premium level'
else 'others'
end as 'levels'from cars24
order by selling_price;
```

00 %

Results    Messages

| name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats | levels |
|------|------|---------------|-----------|------|-------------|--------------|-------|---------|-----------|-----------|-------|--------|
| 44... Mahindra Bolero 2011-2019 ... | 2013 | 499000 | 80000 | Die... | Individual | Manual | First Owner | 15.960000038147 | 2523 | 63 | 9 | others |
| 44... Nissan Sunny XV D | 2015 | 499000 | 61000 | Die... | Dealer | Manual | Second Owner | 22.7099990844727 | 1461 | 84.8000030517578 | 5 | others |
| 44... Hyundai Grand i10 SportZ E... | 2015 | 499000 | 20000 | Petrol | Individual | Manual | First Owner | 18.8999996185303 | 1197 | 81.8600006103516 | 5 | others |
| 44... Hyundai Santro Magna AMT... | 2019 | 499000 | 5000 | Petrol | Individual | Automatic | First Owner | 20.2999992370605 | 1086 | 68 | 5 | others |
| 44... Hyundai Santro Magna BSIV | 2019 | 500000 | 5000 | Petrol | Individual | Manual | First Owner | 20.2999992370605 | 1086 | 68 | 5 | Entr... |
| 44... Hyundai Santro Magna BSIV | 2019 | 500000 | 5000 | Petrol | Individual | Manual | First Owner | 20.2999992370605 | 1086 | 68 | 5 | Entr... |
| 44... Tata Tiago 1.2 Revotron XZ ... | 2019 | 500000 | 5000 | Petrol | Individual | Manual | First Owner | 23.8400001525879 | 1199 | 84 | 5 | Entr... |
| 44... Tata Tiago 1.2 Revotron XTA | 2018 | 500000 | 5000 | Petrol | Individual | Automatic | First Owner | 23.8400001525879 | 1199 | 84 | 5 | Entr... |
| 44... Toyota Innova 2.5 G (Diesel)... | 2008 | 500000 | 219000 | Die... | Individual | Manual | Second Owner | 12.8000001907349 | 2494 | 102 | 8 | Entr... |
| 44... Tata Safari Storme EX | 2014 | 500000 | 291977 | Die... | Individual | Manual | First Owner | 14 | 2179 | 138.100006103516 | 7 | Entr... |
| 44... Hyundai Santro Magna | 2020 | 500000 | 1000 | Petrol | Individual | Manual | First Owner | 20.2999992370605 | 1086 | 68.0699996948242 | 5 | Entr... |
| 44... Mahindra XUV500 W6 2WD | 2012 | 500000 | 1500000 | Die... | Individual | Manual | First Owner | 15.1000003814697 | 2179 | 140 | 7 | Entr... |
| 44  Tata New Safari DICOR 2.2 | 2008 | 500000 | 179150 | Die | Individual | Manual | Second Owner | 11.5699996948242 | 2179 | 138.100006103516 | 7 | Entr |

Query executed successfully.          INBOOK_X1_SLIM\SQLEXPRESS (...  INBOOK_X1_SLIM\OBA (63)  masai  00:00:00  8,128 rows

**Insight number 10 -**

**--Total cars whose fuel name is petrol?**

**select * from cars24**
**where fuel like'petrol';**

```
/* Total cars whose fuel name is petrol?*/

select * from cars24
where fuel like 'petrol';
```

100 %

Results  Messages

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Hyundai i20 Asta 1.2 | 2007 | 550000 | 2360457 | Petrol | Individual | Manual | Second Owner | 18.6000003814697 | 1197 | 81.8300018310547 | 5 |
| 2 | Maruti Wagon R LXI Minor | 2010 | 194000 | 577414 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 1061 | 67 | 5 |
| 3 | Maruti Wagon R VXI BS IV | 2011 | 229999 | 500000 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 4 | Maruti Wagon R LXI BS IV | 2012 | 220000 | 360003 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 5 | Hyundai Sonata 2.4 GDi MT | 2012 | 550000 | 330000 | Petrol | Individual | Manual | Second Owner | 13.4399995803833 | 2359 | 198.25 | 5 |
| 6 | Hyundai Sonata 2.4 GDi MT | 2012 | 500000 | 330000 | Petrol | Individual | Manual | Second Owner | 13.4399995803833 | 2359 | 198.25 | 5 |
| 7 | Maruti Ertiga BSIV VXI | 2017 | 700000 | 227000 | Petrol | Individual | Manual | First Owner | 17.5 | 1373 | 91.0999984741211 | 7 |
| 8 | Hyundai i20 1.2 Asta | 2011 | 220000 | 220000 | Petrol | Individual | Manual | Fourth & Above Owner | 17 | 1197 | 80 | 5 |
| 9 | Maruti 800 EX | 2004 | 70000 | 220000 | Petrol | Individual | Manual | Second Owner | 16.1000003814697 | 796 | 37 | 4 |
| 10 | Honda Civic 1.8 S AT | 2007 | 175000 | 218463 | Petrol | Individual | Automatic | First Owner | 12.8999996185303 | 1799 | 130 | 5 |
| 11 | Hyundai Verna XXi ABS (Petrol) | 2009 | 340000 | 214000 | Petrol | Individual | Manual | Second Owner | 13.8999996185303 | 1599 | 103.199996948242 | 5 |
| 12 | Renault KWID RXT | 2015 | 210000 | 210000 | Petrol | Individual | Manual | Second Owner | 25.1700000762939 | 799 | 53.2999992370605 | 5 |
| 13 | Maruti Alto LX | 2000 | 108000 | 206000 | Petrol | Individual | Manual | Fourth & Above Owner | 19.7000007629395 | 796 | 46.2999992370605 | 5 |
| 14 | Hyundai i10 Magna 1.1L | 2010 | 187000 | 200400 | Petrol | Individual | Manual | Second Owner | 19.8099994659424 | 1086 | 68.0500030517578 | 5 |
| 15 | Ford Fiesta 1.4 Duratec ZXI | 2008 | 136000 | 200185 | Petrol | Individual | Manual | First Owner | 16.6000003814697 | 1388 | 68 | 5 |
| 16 | Maruti Swift Dzire 1.2 Vxi BSIV | 2010 | 210000 | 200000 | Petrol | Individual | Manual | First Owner | 17.5 | 1197 | 85.8000030517578 | 5 |
| 17 | Maruti Zen Estilo VXI BSIV | 2010 | 160000 | 200000 | Petrol | Individual | Manual | First Owner | 19 | 998 | 67.0999984741211 | 5 |
| 18 | Honda CR-V 2.0L 2WD AT | 2006 | 125000 | 200000 | Petrol | Individual | Automatic | Third Owner | 13.1000003814697 | 1997 | 141.100006103516 | 5 |
| 19 | Maruti Wagon R LX | 2006 | 65000 | 198000 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 20 | Maruti Alto LXi BSIII | 2008 | 100000 | 195000 | Petrol | Individual | Manual | Second Owner | 19.7000007629395 | 796 | 46.2999992370605 | 5 |
| 21 | Hyundai Santro Xing GLS | 2008 | 120000 | 191000 | Petrol | Individual | Manual | First Owner | 17.9200000762939 | 1086 | 62.0999984741211 | 5 |
| 22 | Hyundai Santro AT | 2005 | 120000 | 190000 | Petrol | Individual | Automatic | Second Owner | 19.4099998474121 | 1458 | 91.5 | 5 |
| 23 | Maruti Wagon R LXI | 2005 | 70000 | 188000 | Petrol | Individual | Manual | Fourth & Above Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |

Query executed successfully.    INBOOK_X1_SLIM\SQLEXPRESS (...   INBOOK_X1_SLIM\OBA (63)   masai   00:00:00   3,631 rows

**Insight number 11 -**

**--Find all the cars whose name start with given input string?*/**

**select * from cars24**
**where name like 'mar%';**

```
SQLQuery13.sql - I...X1_SLIM\OBA (63))*  ⊣ ✕   SQLQuery12.sql - not connected*        SQLQuery11.sql - not connected*        SQLQuery10.sql - not connected*

    /* Find all the cars whose name start with given input string?*/

    select * from cars24
    where name like 'mar%';
```

100 %   ◄

⊞ Results 📶 Messages

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Maruti Wagon R LXI Minor | 2010 | 194000 | 577414 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 1061 | 67 | 5 |
| 2 | Maruti Wagon R VXI BS IV | 2011 | 229999 | 500000 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 3 | Maruti Wagon R LXI BS IV | 2012 | 220000 | 360003 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 4 | Maruti Ertiga BSIV VXI | 2017 | 700000 | 227000 | Petrol | Individual | Manual | First Owner | 17.5 | 1373 | 91.0999984741211 | 7 |
| 5 | Maruti 800 EX | 2004 | 70000 | 220000 | Petrol | Individual | Manual | Second Owner | 16.1000003814697 | 796 | 37 | 4 |
| 6 | Maruti Alto LX | 2000 | 108000 | 206000 | Petrol | Individual | Manual | Fourth & Above Owner | 19.7000007629395 | 796 | 46.2999992370605 | 5 |
| 7 | Maruti Swift Dzire 1.2 Vxi BSIV | 2010 | 210000 | 200000 | Petrol | Individual | Manual | First Owner | 17.5 | 1197 | 85.8000030517578 | 5 |
| 8 | Maruti Zen Estilo VXI BSIV | 2010 | 160000 | 200000 | Petrol | Individual | Manual | First Owner | 19 | 998 | 67.0999984741211 | 5 |
| 9 | Maruti Wagon R LX | 2006 | 65000 | 198000 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 10 | Maruti Alto LXi BSIII | 2008 | 100000 | 195000 | Petrol | Individual | Manual | Second Owner | 19.7000007629395 | 796 | 46.2999992370605 | 5 |
| 11 | Maruti Wagon R LXI | 2005 | 70000 | 188000 | Petrol | Individual | Manual | Fourth & Above Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 12 | Maruti Gypsy King Soft Top | 1997 | 300000 | 186388 | Petrol | Individual | Manual | Second Owner | 14.8000001907349 | 1298 | 80 | 8 |
| 13 | Maruti Zen Estilo LXI BS IV | 2010 | 100000 | 180000 | Petrol | Individual | Manual | Second Owner | 19 | 998 | 67.0999984741211 | 5 |
| 14 | Maruti Zen LXI | 2000 | 50000 | 180000 | Petrol | Individual | Manual | Fourth & Above Owner | 17.2999992370605 | 993 | 60 | 5 |
| 15 | Maruti Alto LX | 2011 | 175000 | 175000 | Petrol | Individual | Manual | Second Owner | 19.7000007629395 | 796 | 46.2999992370605 | 5 |
| 16 | Maruti Eeco 5 Seater AC BSIV | 2010 | 150000 | 170000 | Petrol | Individual | Manual | Third Owner | 15.3699998855591 | 1196 | 73 | 5 |
| 17 | Maruti Omni E 8 Str STD | 2010 | 120000 | 170000 | Petrol | Individual | Manual | Second Owner | 19.4099998474121 | 1458 | 91.5 | 5 |
| 18 | Maruti Zen LX | 2003 | 58000 | 170000 | Petrol | Individual | Manual | Third Owner | 17.2999992370605 | 993 | 60 | 5 |
| 19 | Maruti Wagon R LXI | 2006 | 90000 | 168000 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 20 | Maruti Wagon R LXI | 2003 | 55000 | 167000 | Petrol | Individual | Manual | Second Owner | 18.8999996185303 | 998 | 67.0999984741211 | 5 |
| 21 | Maruti Alto LX | 2003 | 100000 | 164000 | Petrol | Individual | Manual | Third Owner | 19.7000007629395 | 796 | 46.2999992370605 | 5 |
| 22 | Maruti Eeco 5 Seater AC BSIV | 2010 | 160000 | 162000 | Petrol | Individual | Manual | First Owner | 15.3699998855591 | 1196 | 73 | 5 |
| 23 | Maruti A-Star Vxi | 2010 | 130000 | 162000 | Petrol | Individual | Manual | Second Owner | 19 | 998 | 66.0999984741211 | 5 |

✅ Query executed successfully.        INBOOK_X1_SLIM\SQLEXPRESS (...   INBOOK_X1_SLIM\OBA (63)   masai   00:00:00   2,448

**Insight number 12 -**

**--Find  5 cars with the highest mileage in desc order?**

**select top 5 * from cars24**
**order by mileage desc;**

```sql
select top 5 * from cars24
order by mileage desc;
```

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Volvo XC90 T8 Excellence BSIV | 2017 | 10000000 | 30000 | Petrol | Individual | Automatic | First Owner | 42 | 1969 | 400 | 4 |
| 2 | Maruti Alto 800 CNG LXI | 2017 | 260000 | 67000 | CNG | Individual | Manual | First Owner | 33.439998626709 | 796 | 40.2999992370605 | 4 |
| 3 | Maruti Alto 800 CNG LXI Optional | 2019 | 330000 | 10000 | CNG | Individual | Manual | Second Owner | 33.439998626709 | 796 | 40.2999992370605 | 4 |
| 4 | Maruti Alto 800 CNG LXI Optional | 2019 | 330000 | 10000 | CNG | Individual | Manual | Second Owner | 33.439998626709 | 796 | 40.2999992370605 | 4 |
| 5 | Maruti Alto 800 LXI CNG | 2020 | 370000 | 16000 | CNG | Individual | Manual | First Owner | 33 | 796 | 47.2999992370605 | 5 |

Query executed successfully.     INBOOK_X1_SLIM\SQLEXPRESS (...   INBOOK_X1_SLIM\OBA (63)   masai   00:00:00   5 rows

**Insight number 13 -**

**--Find the highest engine_cc whose seller_type is Individual?**

**select top 1 * from cars24**
**where seller_type like 'Individual'**
**order by engine_CC;**

```
/* Find the highest engine_cc whose seller_type is Individual?*/

select top 1 * from cars24
where seller_type like 'Individual'
order by engine_CC;
```
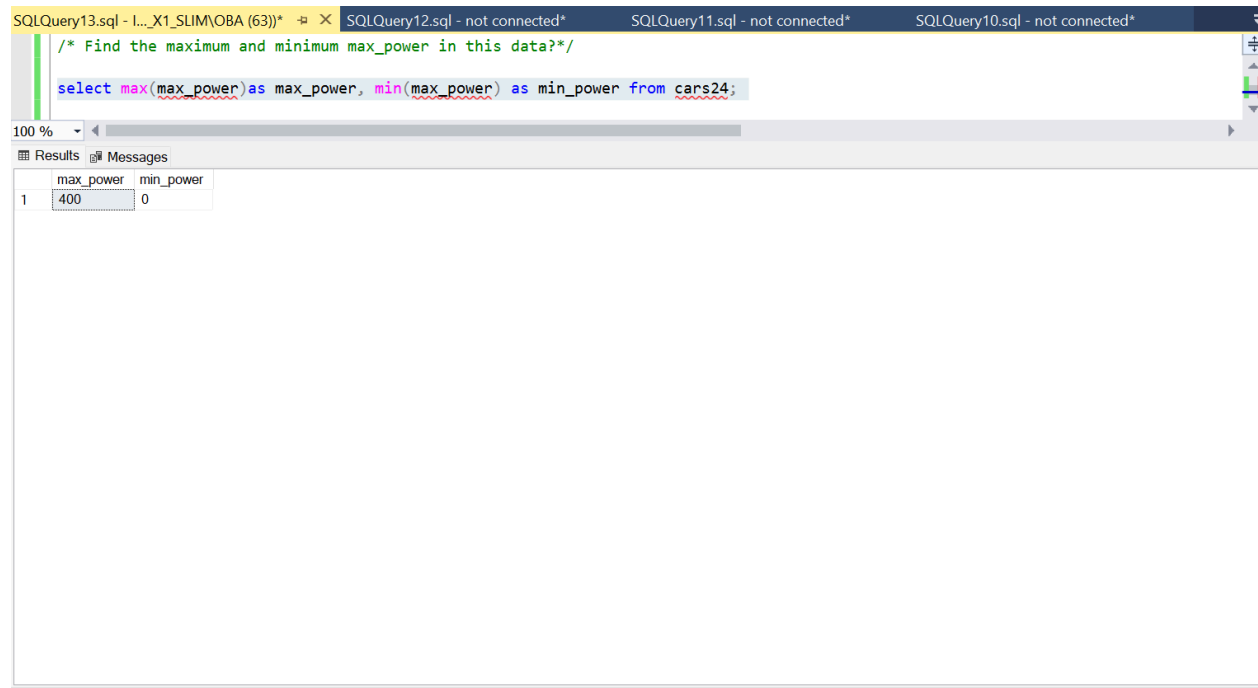
100 % ▾ ◀

⊞ Results 🗎 Messages

| | name | year | selling_price | km_driven | fuel | seller_type | transmission | owner | mileage | engine_CC | max_power | seats |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Tata Nano Lx BSIV | 2012 | 60000 | 90000 | Petrol | Individual | Manual | First Owner | 25.3999996185303 | 624 | 37.4799995422363 | 4 |

⊘ Query executed successfully.  INBOOK_X1_SLIM\SQLEXPRESS (...  INBOOK_X1_SLIM\OBA (63)  masai  00:00:00  1 rows

**Insight number 14 -**

**--Find the maximum and minimum max_power in this data?**

**select max(max_power)as max_power, min(max_power) as min_power from cars24;**

```sql
/* Find the maximum and minimum max_power in this data?*/

select max(max_power)as max_power, min(max_power) as min_power from cars24;
```

100 %  ▾ ◀

⊞ Results  ⊠ Messages

| | max_power | min_power |
|---|---|---|
| 1 | 400 | 0 |

**Insight number 15 -**

**--Find the sum of the mileage in 2017 which is used?**

**select sum(mileage)as total_mileage from cars24**
**where year = 2017;**

```
/* Find the sum of the mileage in 2017 which is used?*/

select sum(mileage)as total_mileage from cars24
where year = 2017;

/* Find all the cars name where selling price is greate than 1000000, and name with honda?*/
```

100 %

**Results** **Messages**

| | total_mileage |
|---|---|
| 1 | 21228.640045166 |

**Insight number 16 -**

**--Find all the cars name where selling_price is greate than 1000000, and name with honda?**

**select count(\*) as total_cars from cars24**
**where selling_price> 1000000 and name like '%honda%';**

```
where year = 2017;

/* Find all the cars name where selling_price is greate than 1000000, and name with honda?*/

select count(*) as total_cars from cars24
where selling_price> 1000000 and name like '%honda%';
```

.00 %   ▾ ◂

⊞ Results ⊪ Messages

| | total_cars |
|---|---|
| 1 | 26 |

✅ Query executed successfully.                                INBOOK X1 SLIM\SQLEXPRESS (...  INBOOK X1 SLIM\OBA (63)  masai  00:00:00  1 r

**Insight number 17 -**

 **--Find how many cars are made in every year?**

**select year,count(*) as made_count from cars24**
**group by year**
**order by year asc;**

```sql
/* Find how many cars are made in every year?*/

select year,count(*) as made_count from cars24
group by year
order by year asc;
```

100 %

**Results**  **Messages**

| | year | made_count |
|---|---|---|
| 1 | 1983 | 1 |
| 2 | 1991 | 1 |
| 3 | 1994 | 3 |
| 4 | 1995 | 2 |
| 5 | 1996 | 3 |
| 6 | 1997 | 11 |
| 7 | 1998 | 10 |
| 8 | 1999 | 18 |
| 9 | 2000 | 22 |
| 10 | 2001 | 10 |
| 11 | 2002 | 27 |
| 12 | 2003 | 49 |
| 13 | 2004 | 62 |
| 14 | 2005 | 97 |
| 15 | 2006 | 124 |
| 16 | 2007 | 183 |
| 17 | 2008 | 214 |
| 18 | 2009 | 246 |
| 19 | 2010 | 394 |
| 20 | 2011 | 592 |
| 21 | 2012 | 651 |
| 22 | 2013 | 670 |