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Market Overview

There were over 300,000 cars sold last year.

Based on the collected data I built price prediction models and what cars characteristics influence the price.

Every buyer, as you know it, has a type of car they are shopping for. A large family might buy a minivan, a contractor might go for a pickup, a student might go for a coup, while a dog owner might want to have a wagon. All these cars have different features that are attractive to a buyer. Hence I decided to divide the data into groups by type of the car:

- Sedan
- SUV
- Pickup
- Truck
- Coupe
- Hatchback
- Convertible
- Van

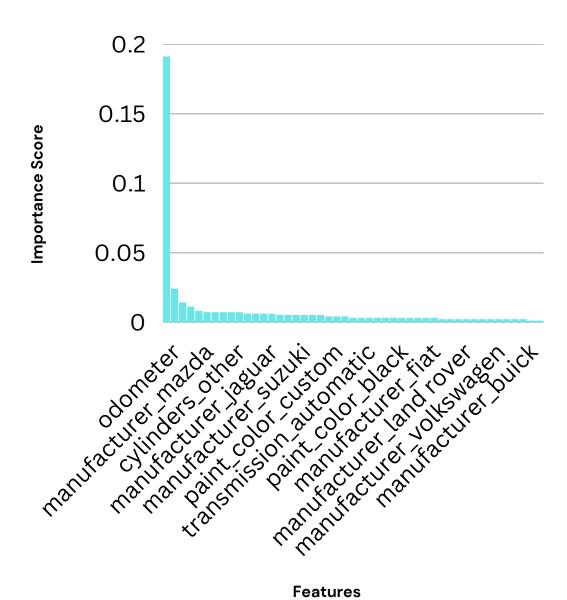
- Wagon
- Minivan
- Bus
- Offroad
- Antiques
- Convertible
- Van
- Wagon
- Minivan
- Bus
- Offroad
- Antiques

As you can see I also separated cars that are 25+ years old because they are considered antiques by definition and they have their own specific features.

You can find below the features that influence price of each car type and also the data on the last year sales.

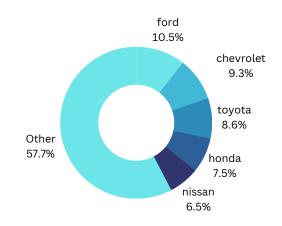
o₂ Sedan

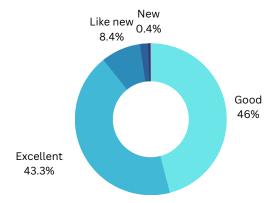
The price of the sedan is driven by features listed below on a chart. Most influential features are on the left.

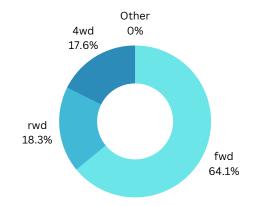


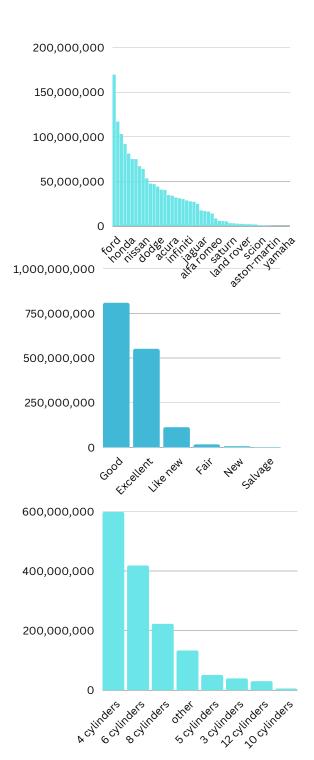
o₂ Sedan

The previous year sales by total quantity.



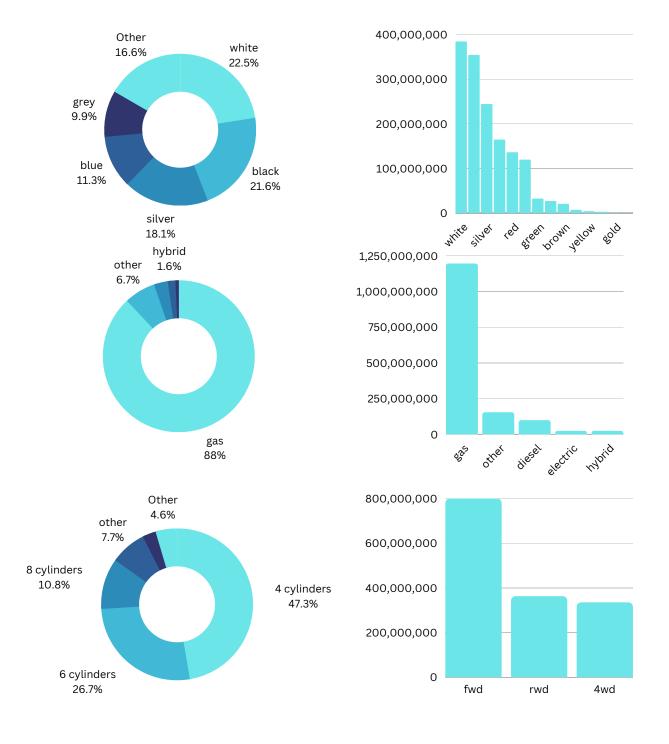






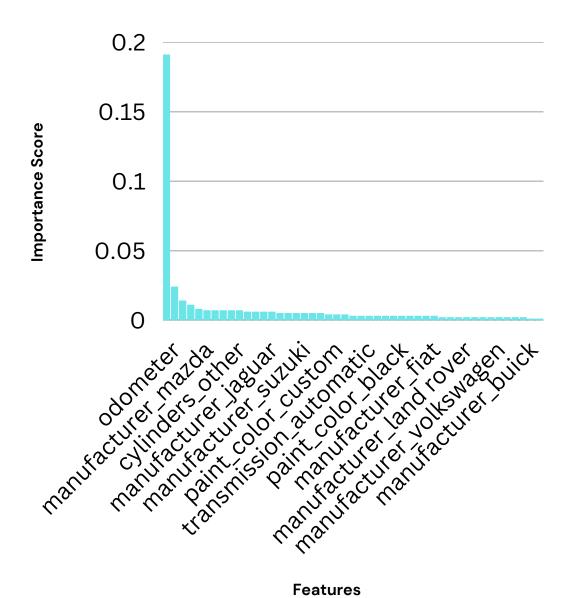
o₂ Sedan

The previous year sales by total quantity.



O3 SUV

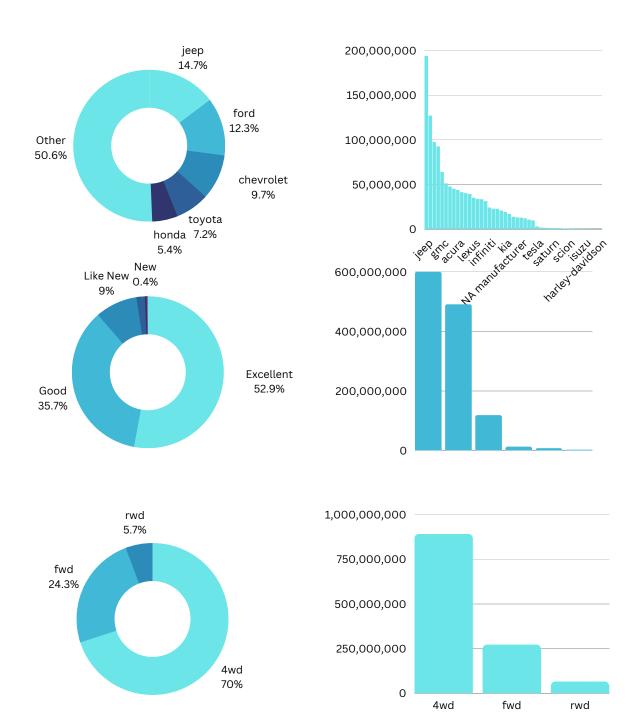
The price of the SUV is driven by features listed below on a chart. Most influential features are on the left.



O3

SUV

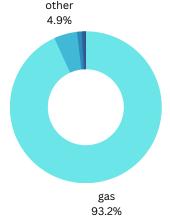
The previous year sales by total quantity.

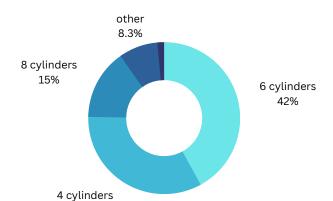


SUV

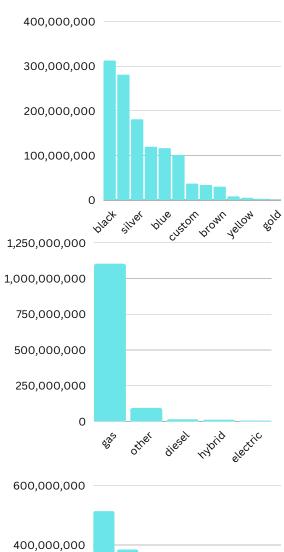
The previous year sales by total quantity.

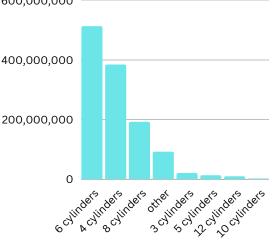
Other 18.8% black 23.1% blue 10.4% white 21.3% silver 16% other





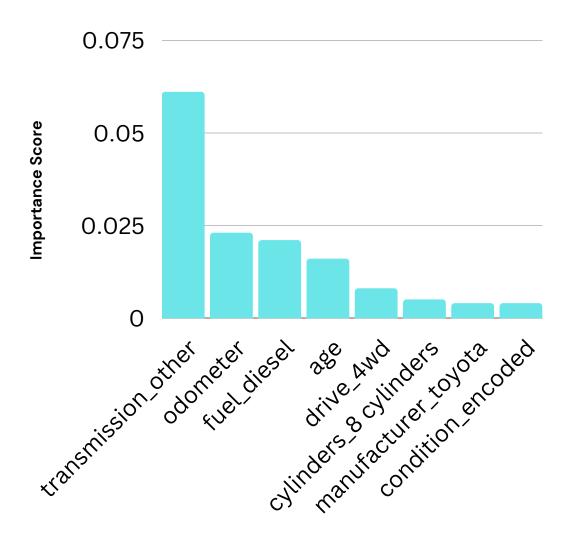
33.2%





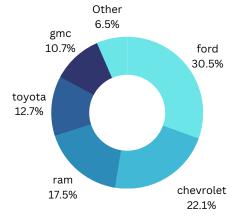
04 Pickup

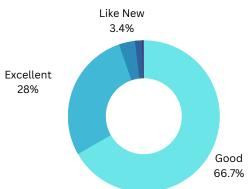
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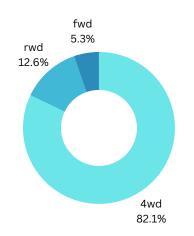


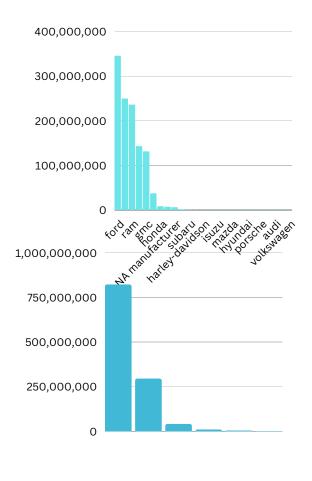
04 Pickup

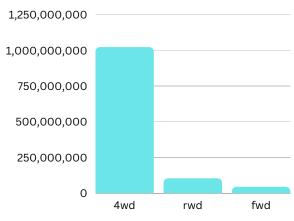
The previous year sales by total quantity.







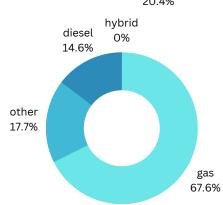


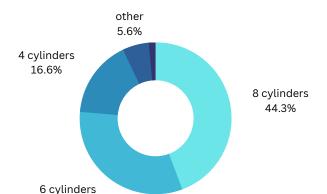


04 Pickup

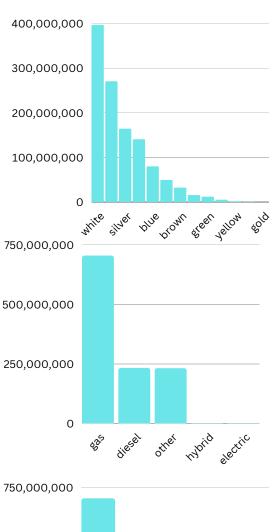
The previous year sales by total quantity.

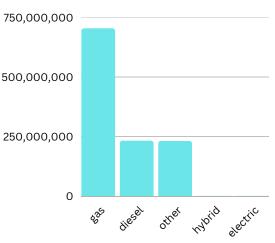
Other 11.2% blue white 7.5% 34% red 12.6% silver 14.4% black 20.4%





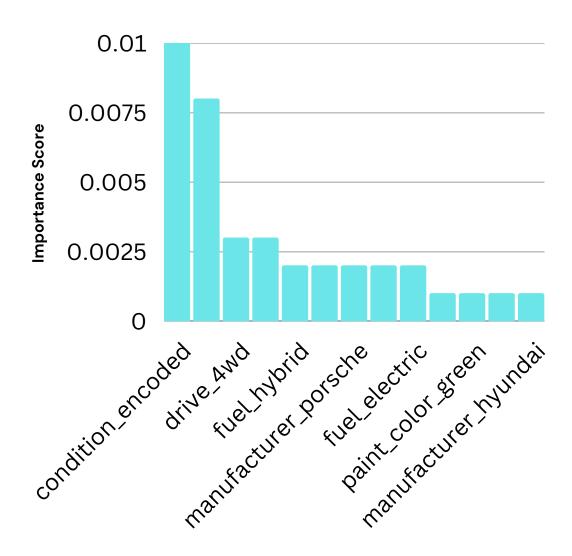
32.1%





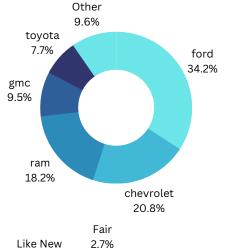
05 Truck

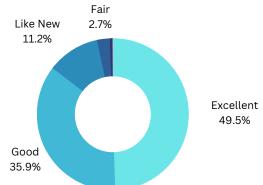
The price of the truck is driven by features listed below on a chart. Most influential features are on the left.

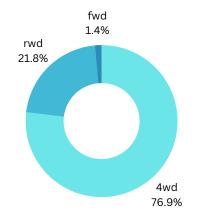


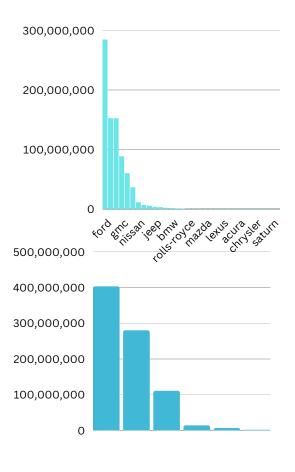
05 Truck

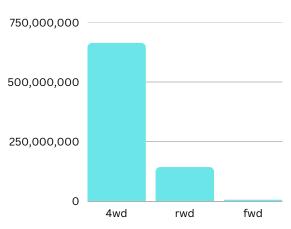
The previous year sales by total quantity.





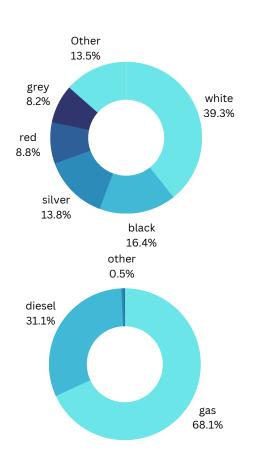


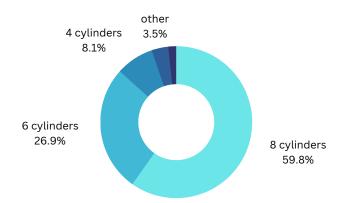


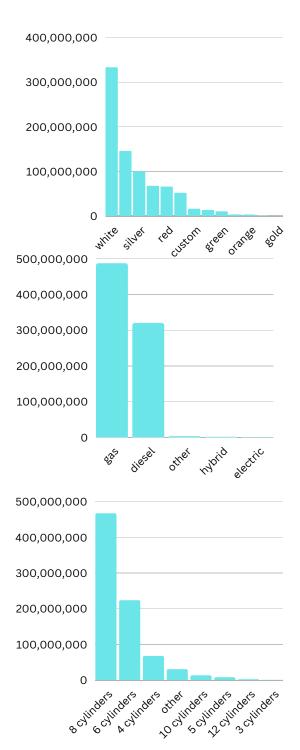


05 Truck

The previous year sales by total quantity.

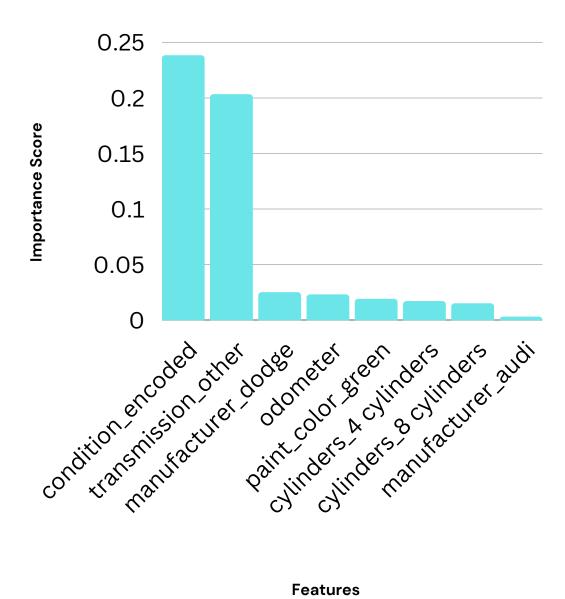






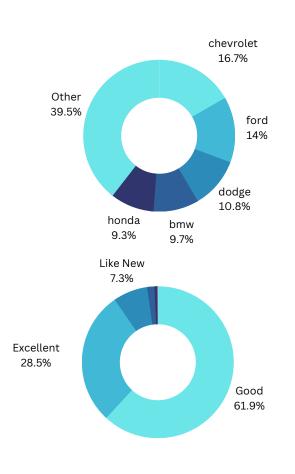
06 Coupe

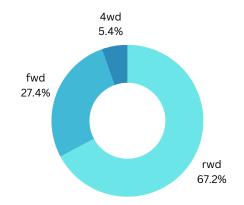
The price of the coupe is driven by features listed below on a chart. Most influential features are on the left.

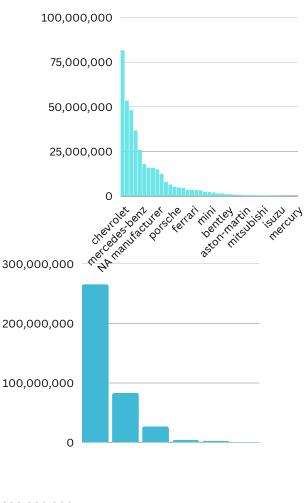


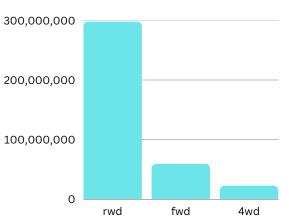
06 Coupe

The previous year sales by total quantity.





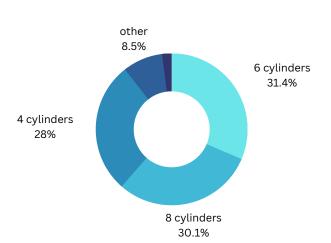


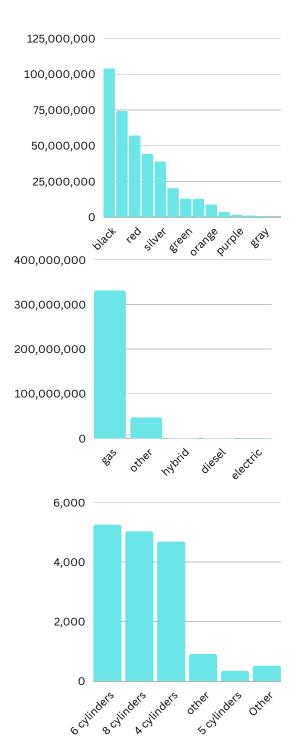


06 Coupe

The previous year sales by total quantity.

Other 16.7% black 27% blue 10.9% silver white 13% 18% red 14.4% other diesel 9.6% 0.2% gas 89.9%

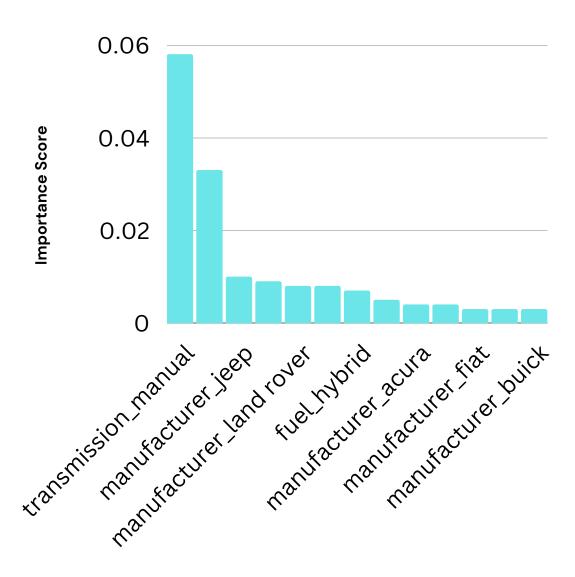




Ο7

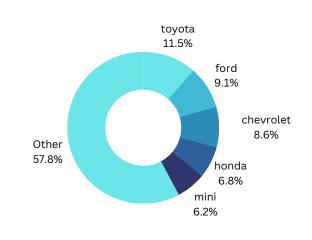
Hatchback

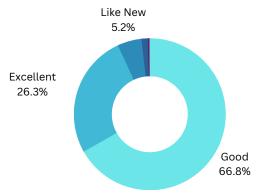
The price of the hatchback is driven by features listed below on a chart. Most influential features are on the left.

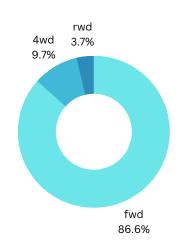


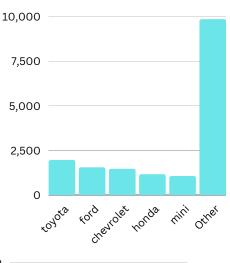
Hatchback

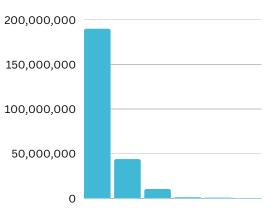
The previous year sales by total quantity.

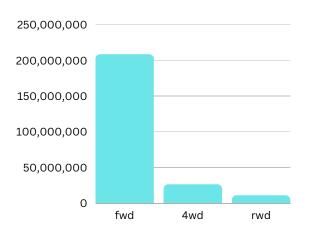








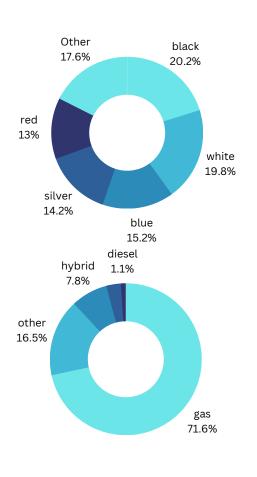


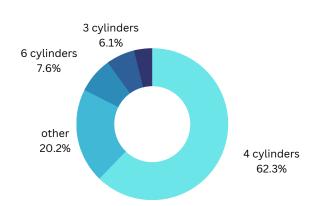


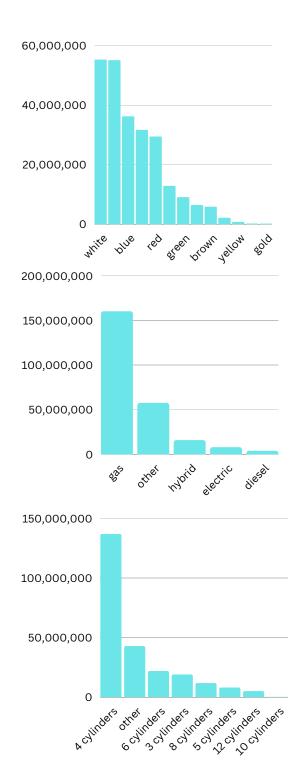
Ο7

Hatchback

The previous year sales by total quantity.

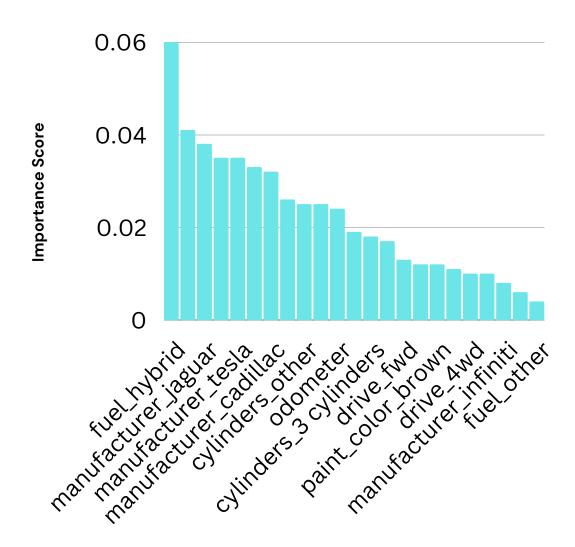






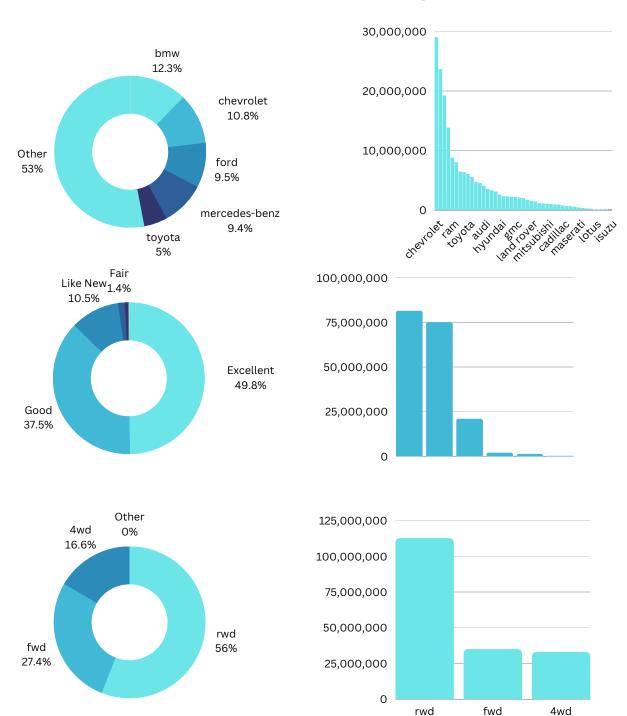
Convertible

The price of the convertible is driven by features listed below on a chart. Most influential features are on the left.



Convertible

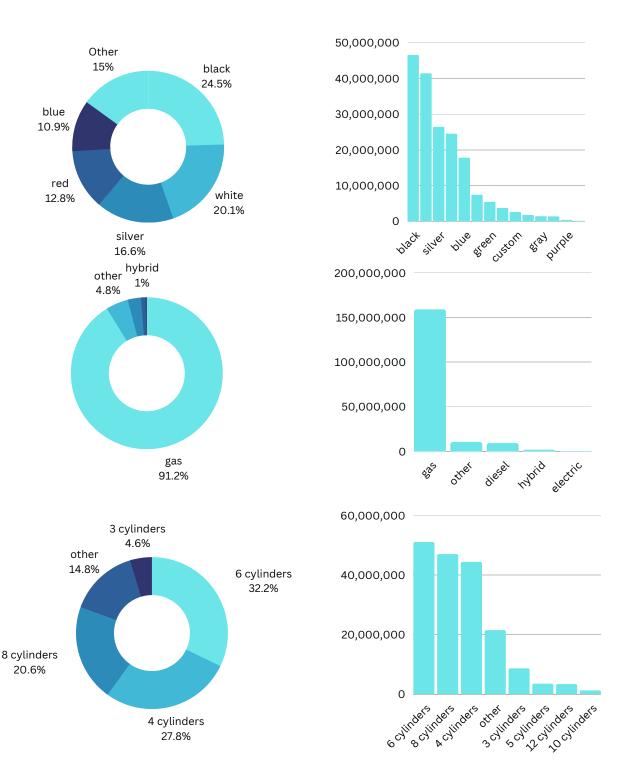
The previous year sales by total quantity.



08 Convertible

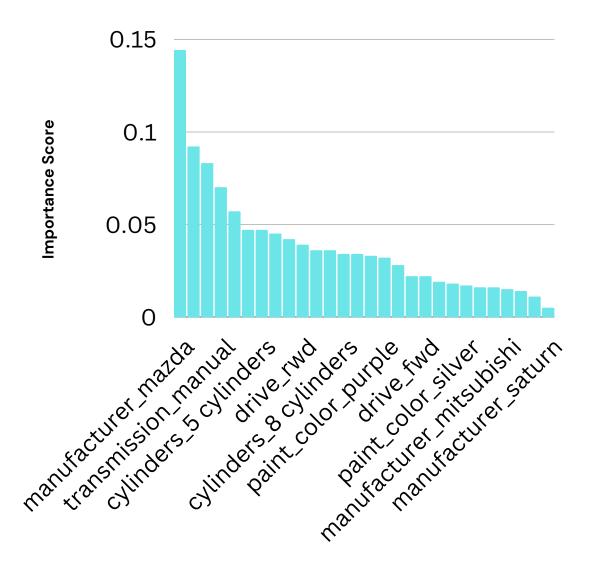
The previous year sales by total quantity.

4 cylinders 27.8%



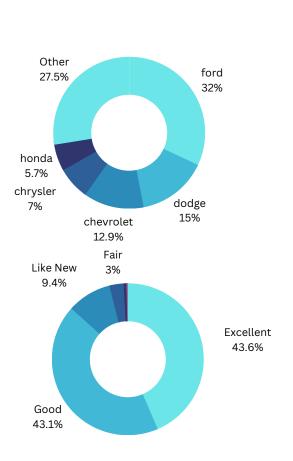
09 Van

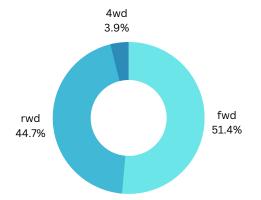
The price of the van is driven by features listed below on a chart. Most influential features are on the left.

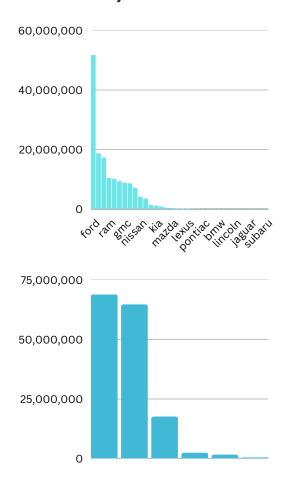


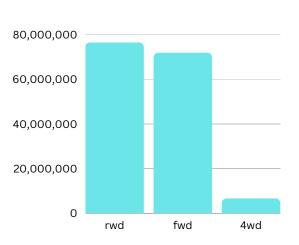
09 Van

The previous year sales by total quantity.



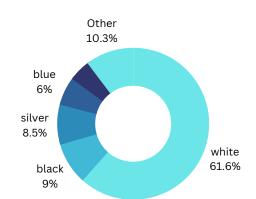


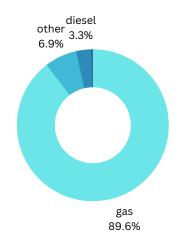


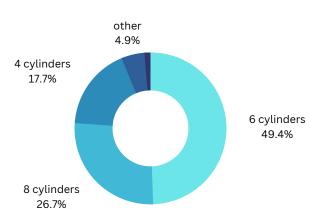


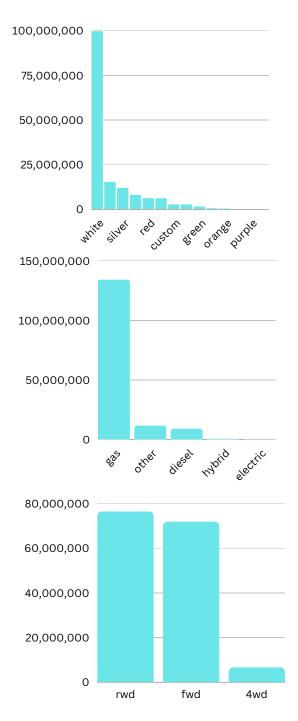
09 Van

The previous year sales by total quantity.



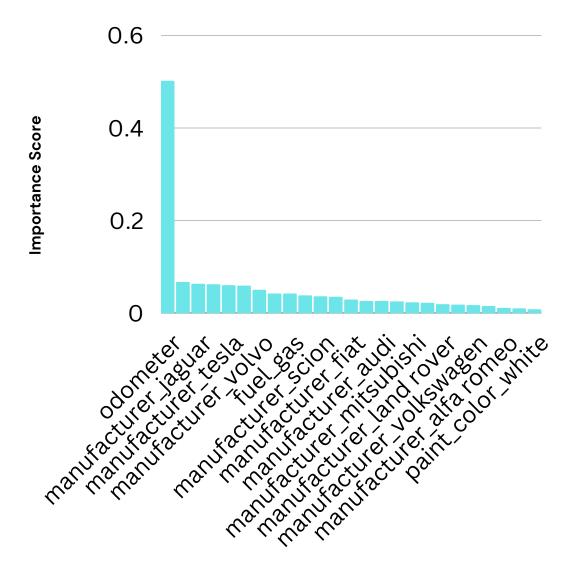






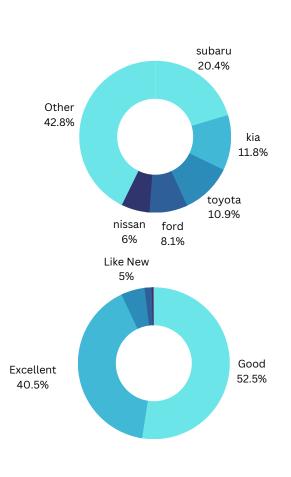
10 Wagon

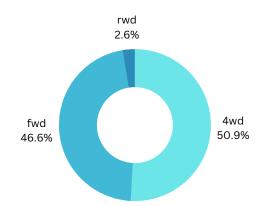
The price of the wagon is driven by features listed below on a chart. Most influential features are on the left.

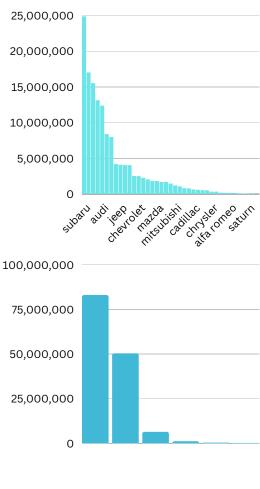


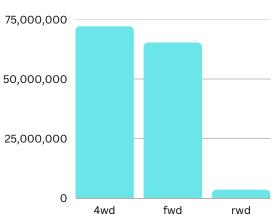
Wagon

The previous year sales by total quantity.





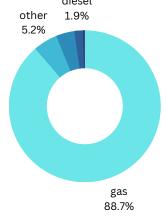


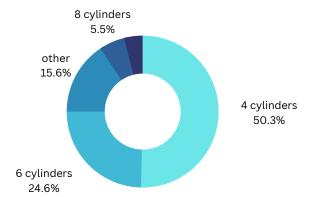


10 Wagon

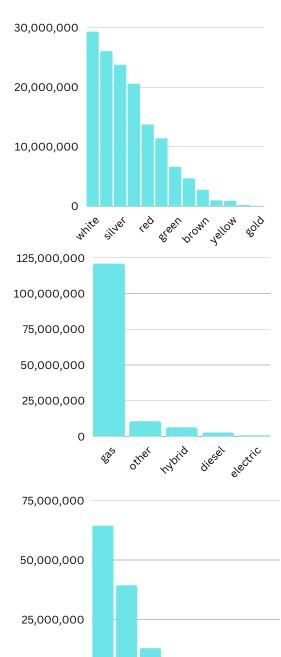
The previous year sales by total quantity.

white Other 19.6% 20.9% grey 9.3% silver 17.9% blue 14.7% black 17.6% diesel other 1.9% 5.2%





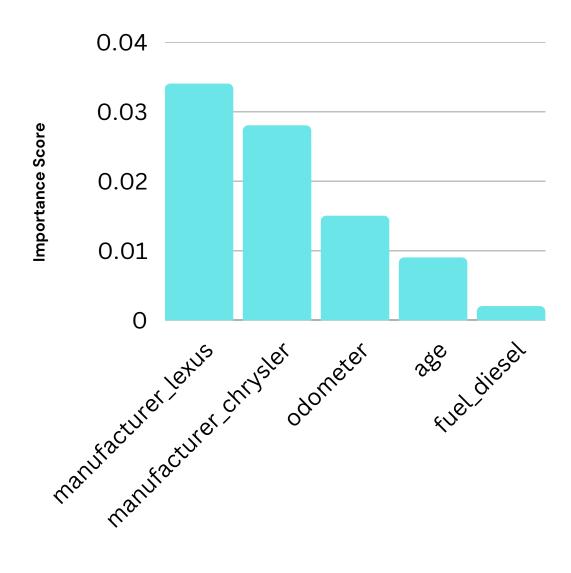
The previous year sales by total \$.



Schinders

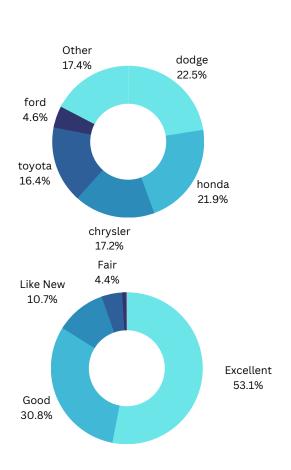
Minivan

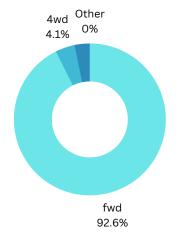
The price of the minivan is driven by features listed below on a chart. Most influential features are on the left.

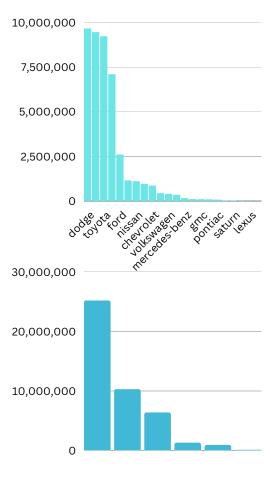


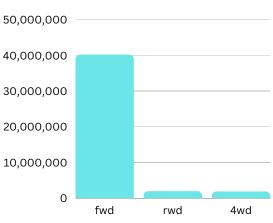
Minivan

The previous year sales by total quantity.



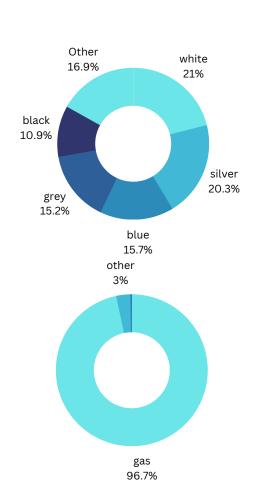


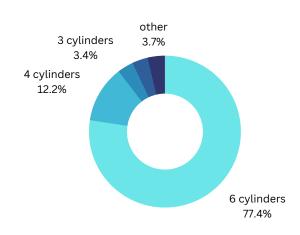


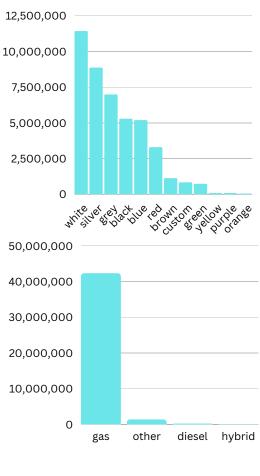


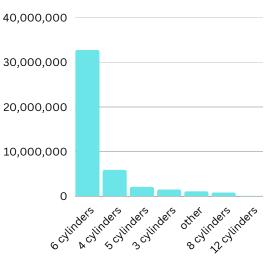
Minivan

The previous year sales by total quantity.



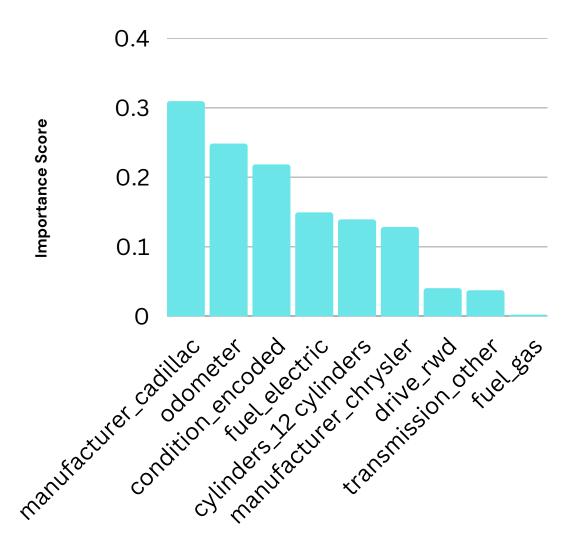






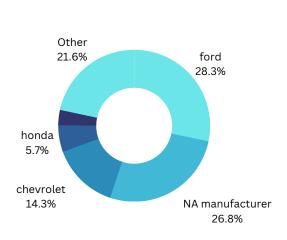
Bus

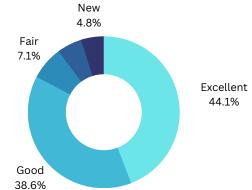
The price of the bus is driven by features listed below on a chart. Most influential features are on the left.

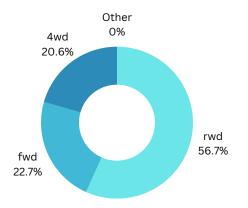


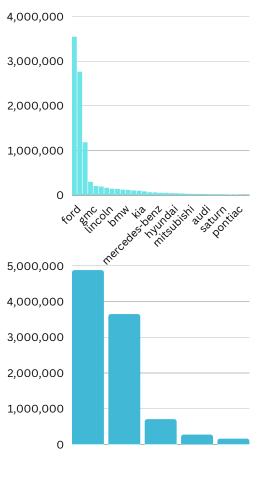
Bus

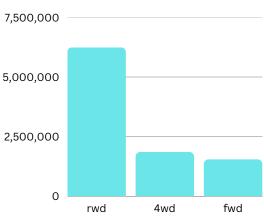
The previous year sales by total quantity.





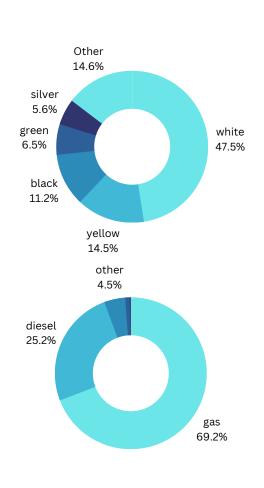


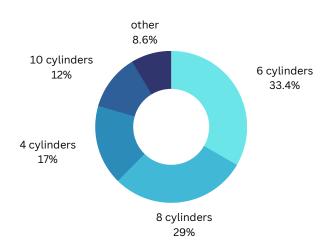


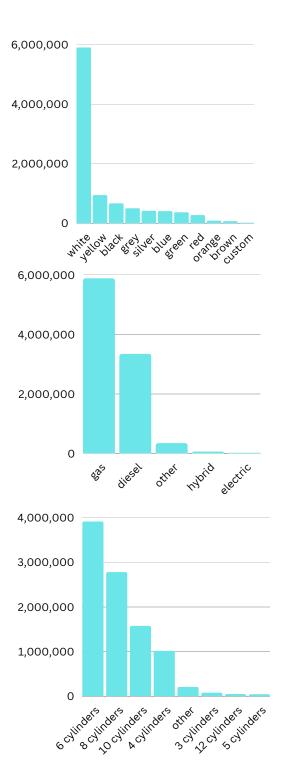


Bus

The previous year sales by total quantity.





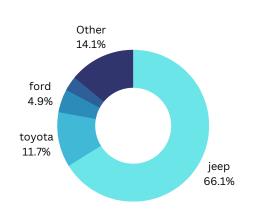


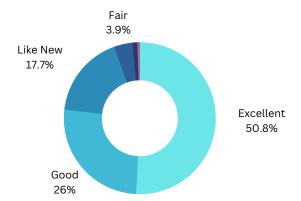
Offroad

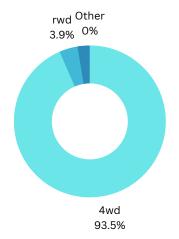
The price of the offroad is driven by 1 feature: the "transmission_other". This feature has an importance score of 4.159. This suggests that the "transmission_other" feature has a relatively high importance in the model's pricing performance.

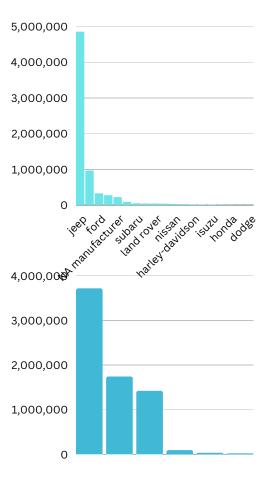
Offroad

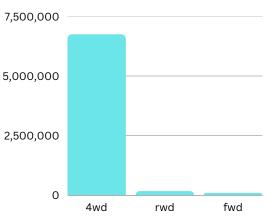
The previous year sales by total quantity.





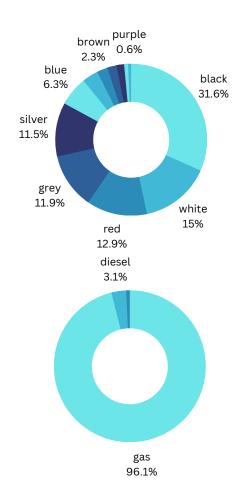


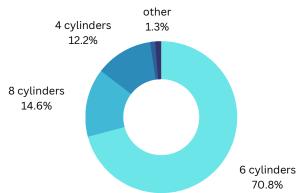


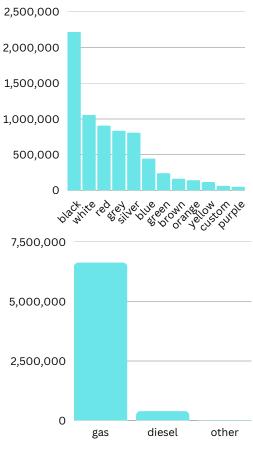


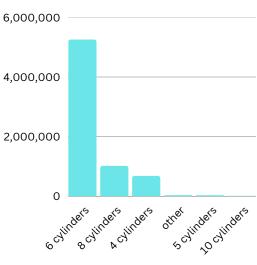
Offroad

The previous year sales by total quantity.



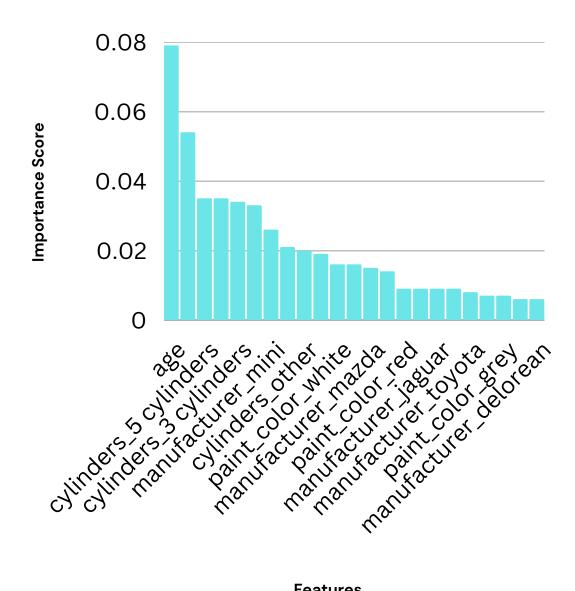






Antiques

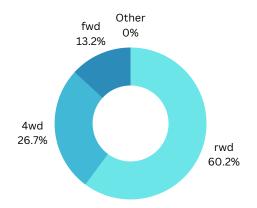
The price of the antiques is driven by features listed below on a chart. Most influential features are on the left.

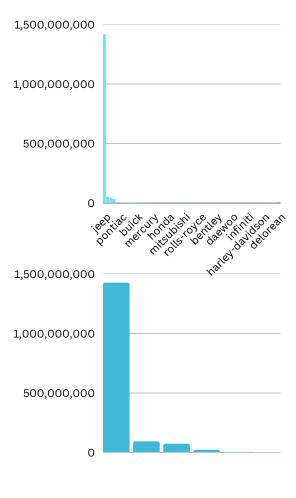


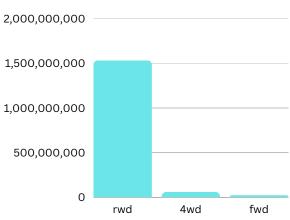
Antiques

The previous year sales by total quantity.

chevrolet 21.2% Other 33.4% ford 19.3% toyota 5.2% NA manufacturer 16.2% Like New 6.3% Fair 13.9% Good 43.3% Excellent 35%







Antiques

The previous year sales by total quantity.

