CAR DEKHO

INTRODUCTION

This data set contains vehicle details in car dekho website and includes information of vehicles such as name of the vehicle, year of purchase, selling_price, km_driven,, fuel type, seller_type, transmission type, owner type, mileage of the vehicle, engine power, max_power, torque, number of seats.

To easily find and classify vehicles to the users.

AIM

The main goal is to find, classify and easily access data of vehicles which can help customers and users. This database contain important data about all car in car dekho website.

OBJECTIVE

1.Data collection

By analysing this database, this database includes all important details about available vehicles. The data was stored in relational database.

2.Data cleaning

The database contains many missing values and duplicate rows, by the cleaning process we can ensure the database integrity.

3.SQL Queries

This database includes SQL queries to execute relevant information by using SELECT, WHERE, DISTINCT, LIMIT, GROUP BY, ORDER BY, and aggregation functions.

DATA OVERVIEW

Field	Type	Null	Key	Default	Extra
Company	varchar(100)	YES		NULL	
Name	text	YES		NULL	
year	int	YES		NULL	
selling_price	int	YES		NULL	
price_category	varchar(50)	YES		NULL	
km_driven	int	YES		NULL	
km_category	varchar(100)	YES		NULL	
fuel	text	YES		NULL	
seller_type	text	YES		NULL	
transmission	text	YES		NULL	
owner	text	YES		NULL	
mileage	int	YES		NULL	
Mileage_category	varchar(100)	YES		NULL	
engine	int	YES		NULL	
max_power	float	YES		NULL	
torque	float	YES		NULL	
seats	int	YES		NULL	
current_date1	date	YES		NULL	

QUESTIONS

1.To find the total number of vehicles.

select count(*) from car_table;

7927

2. Categorize the column transmission with number of vehicle.

select transmission,count(*) from car_table3 group by transmission;

	transmission	count(*)
▶	Manual	19157
	Automatic	2196

3. Categorize the column seats with number of vehicle.

select seats,count(*) from car_table3 group by seats;

	seats	count(*)
▶	5	16781
	7	3052
	6	176
	8	677
	9	228
	4	381
	10	55
	14	3

4. Categorize the column owner with number of vehicle.

select owner,count(*) from car_table3 group by owner;

	owner	count(*)
▶	First Owner	13588
	Second Owner	5791
	Test Drive Car	15
	Third Owner	1492
	Fourth & Above Owner	467

5. Find all details of top ten driven vehicles.

select * from car_table3 order by km_driven desc limit 10;

Company	Name	year	selling_price	price_category	km_driven	km_category	fuel	seller_type	transmission	owner	mileage	Mileage_category	engine	max_power	torque	seats	current_date1
Hyundai	Hyundai i20 Asta 1.2	2007	550000	average budget	2360457	driven above 100k	Petrol	Individual	Manual	Second Owner	18	Average_mileage_vehcle	1197	81.83	114.7	5	2024-08-26
Hyundai	Hyundai i20 Asta 1.2	2007	550000	average budget	2360457	driven above 100k	Petrol	Individual	Manual	Second Owner	18	Average_mileage_vehcle	1197	81.83	114.7	5	2024-08-26
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Mahindra	Mahindra XUV500 W6 2WD	2012	500000	average budget	1500000	driven above 100k	Diesel	Individual	Manual	First Owner	15	Average_mileage_vehcle	2179	140	330	7	2024-08-26
Mahindra	Mahindra XUV500 W6 2WD	2012	500000	average budget	1500000	driven above 100k	Diesel	Individual	Manual	First Owner	15	Average_mileage_vehcle	2179	140	330	7	2024-08-26
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Maruti	Maruti Wagon R LXI Minor	2010	194000	average budget	577414	driven above 100k	Petrol	Individual	Manual	Second Owner	18	Average_mileage_vehcle	1061	67	84	5	2024-08-26
Maruti	Maruti Wagon R LXI Minor	2010	194000	average budget	577414	driven above 100k	Petrol	Individual	Manual	Second Owner	18	Average_mileage_vehcle	1061	67	84	5	2024-08-26
Maruti	Maruti Wagon R LXI Minor	2010	194000	average budget	577414	driven above 100k	Petrol	Individual	Manual	Second Owner	18	Average_mileage_vehcle	1061	67	84	5	2024-08-26
Toyota	Toyota Innova 2.5 EV Diesel PS 7 Seater BSIII	2011	350000	average budget	500000	driven above 100k	Diesel	Individual	Manual	Second Owner	12	Average_mileage_vehcle	2494	100.57	200	7	2024-08-26

6 Find the number of vehicles with selling price below 1 lakh.

select * from car_table3 where selling_price<100000 order by selling_price;

809

7. Find the number of first owner vehicles.

select count(*) from car_table3 where owner="First Owner" order by selling_price;

1358

8. Vehicle with high mileage.

select * from car_table3 where mileage order by mileage desc limit 1;

Volvo XC90 T8 Excellence BSIV

9. Find premium cars in the table.

select * from car_table3 where price_category="premium vehcle";

10. Find the number of Maruti cars.

select count(*) from car_table3 where Name like "Maruti%";

11. Find the number of vehicles driven below 10000 kilometer.

select count(*) from car_table3 where km_category="driven below 10k";

879

12. Average selling price of vehicles with low, average and high mileage.

select Mileage_category,avg(selling_price) from car_table3 group by Mileage_category;

Average_mileage_vehicle	= 592767.0001
High_mileage_vehicle	= 531423.9634
Low_ mileage_vehicle	= 1090338.5354

13. Find vehicles with year before 2000.

select * from car_table3 where year<2000;

CONCLUSION

1.Total number of vehicles.

- The total number of vehicles in the database car_dekho is 7927.

2.Total number of companies.

- The total number of companies in the database is 32.

3.The most of the vehicle in the company.

- Maruti company is the most vehicles in the database.

4.Number of manual and automatic vehicles in transmission category.

- Manual = 6879

- Automatic = 1048

5. Which seater vehicle is most in the database.

- 5 seater vehicle.

6.Most driven vehicle.

- Hyundai i20 Asta 1.2 is the most driven vehicle. This car drived 2360457 kilometers. And its fuel type is petrol.

6.Number of first owner vehicle.

- 5232 first owner vehicles are available in this database.

7.Top mileage vehicle in this database.

- Volvo XC90 T8 Excellence BSIV Has the highest mileage in this table and its mileage is 42.

8.Lowest mileage.
- 9 is the lowest mileage in this table.

9.Number of Petrol, Diesel.
- Petrol vehicles = 3534
- Diesel vehicles = 4304

10.Most expensive vehicle.
- Most expensive vehicle is Volvo XC90 T8 Excellence BSIV the price is 10000000.