CarDekho
BHAROSA KAR KE DEKHO

"ANALYSIS OF SECOND-HAND CAR SALES"

SQL CASE STUDY

Created By

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ABOUT COMPANY

CarDekho is a prominent and reputable company in the automotive industry. Founded in India, CarDekho has established itself as a leading online platform that provides comprehensive information and services related to buying and selling cars. The company offers a user-friendly website and mobile app that allow users to research and compare a wide range of new and used vehicles, read expert reviews, and access pricing information. CarDekho also assists customers in the car buying process by offering services such as insurance, financing, and certified used car listings. With its commitment to transparency and customer satisfaction, CarDekho has become a trusted resource for car enthusiasts and buyers, helping them make informed decisions in the ever-evolving world of automobiles.
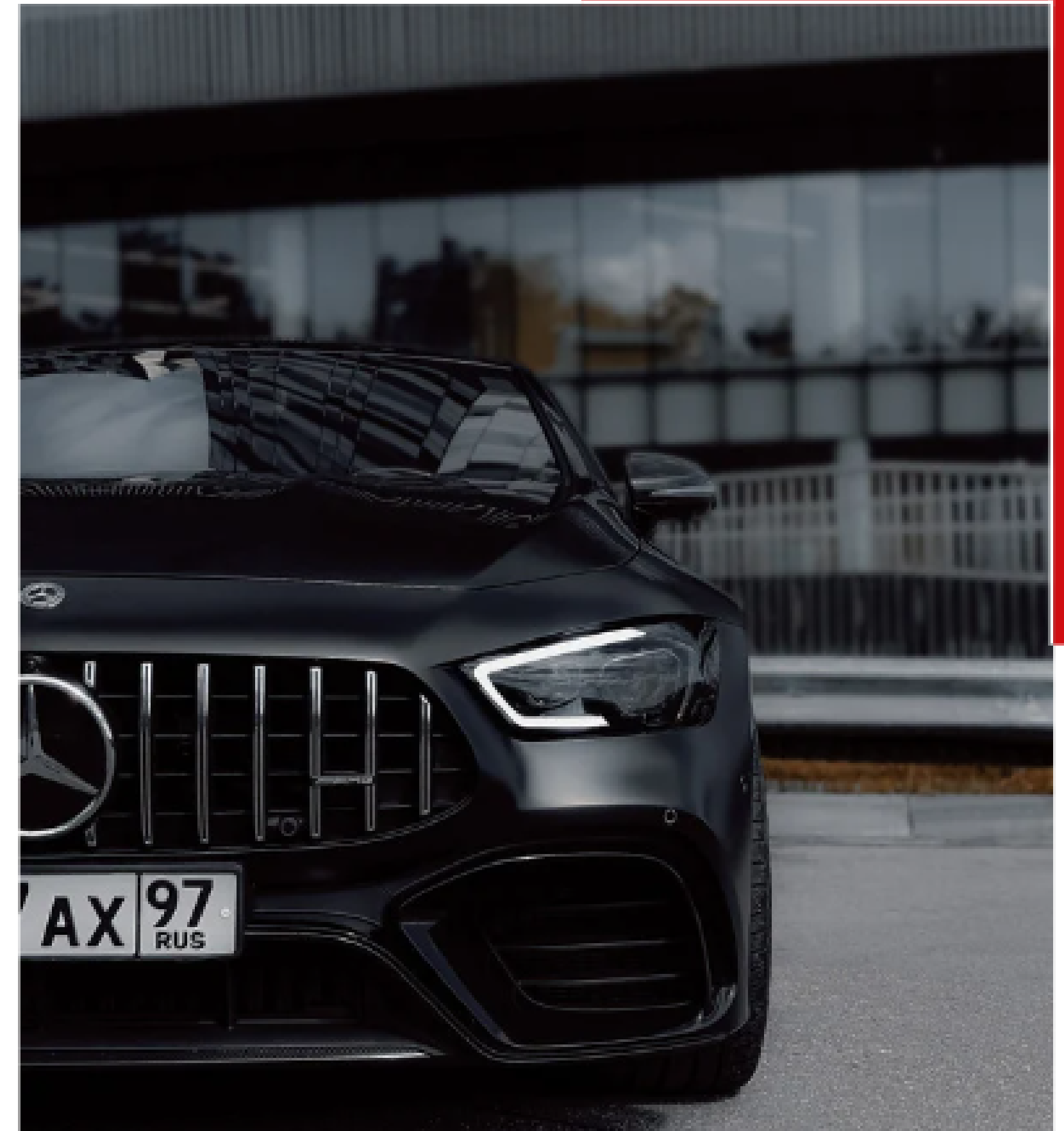
DATA SET DETAILS

Here are the details of the columns in the dataset:

1. **Name**: The make and model of the car.
2. **Year**: The manufacturing year of the car.
3. **Selling_Price**: The price at which the car is being sold.
4. **Km_Driven**: The number of kilometers the car has been driven.
5. **Fuel**: The type of fuel the car uses (e.g., Petrol, Diesel, Electric).
6. **Seller_Type**: The type of seller (e.g., Individual, Dealer).
7. **Transmission**: The transmission type of the car (e.g., Manual, Automatic).
8. **Owner**: The ownership history of the car (e.g., First Owner, Second Owner).
9. **Mileage**: The mileage of the car in kilometers per liter (kmpl).
10. **Engine**: The engine capacity of the car in cubic centimeters (CC).
11. **Max_Power**: The maximum power output of the car's engine in bhp (brake horsepower).
12. **Torque**: The torque of the car's engine in Newton-meters (Nm).
13. **Seats**: The number of seats in the car.

1.WHAT IS THE TOTAL NUMBER OF CARS?

```sql
SELECT COUNT(name) AS Total_number_of_cars
FROM Cardekho;
```

OUTPUT

Total_number_of_cars
8148

2.HOW MANY CARS AVAILABLE IN 2023?

```sql
SELECT COUNT(name) AS NO_OF_CARS_AVAILABLE
FROM Cardekho
WHERE year =  2023;
```

OUTPUT

NO_OF_CARS_AVAILABLE
6

3.HOW MANY CARS IS AVAILABLE IN 2020,2021,2022?

```sql
SELECT year,COUNT(name) AS total FROM Cardekho
WHERE year IN (2020,2021,2022)
GROUP BY year;
```

OUTPUT

year	total
2020	74
2021	7
2022	7

4.PRINT THE TOTAL OF ALL CARS BY YEARS ?

```sql
SELECT year
    ,COUNT(name) AS total
FROM Cardekho
GROUP BY year;
```

OUTPUT

year	total
1983	1
1991	1
1994	3
1995	2
1996	3
1997	11
1998	10
1999	18
2000	22

OUTPUT

year	total
2001	10
2002	27
2003	49
2004	62
2005	97
2006	124
2007	183
2008	214
2009	246

OUTPUT

year	total
2019	583
2020	74
2021	7
2022	7
2023	6

OUTPUT

year	total
2010	394
2011	592
2012	651
2013	670
2014	621
2015	776
2016	859
2017	1018
2018	807

5.HOW MANY DISEL CARS WILL BE THERE IN 2020?

```sql
SELECT year
      , COUNT(fuel) AS total
FROM Cardekho
WHERE fuel ="Diesel" AND year =2020;
```

OUTPUT

year	total
2020	20

6.HOW MANY PETROL CARS WILL BE THERE IN 2020?

```sql
SELECT year
    , COUNT(fuel) AS total FROM Cardekho
WHERE fuel ="Petrol" AND year =2020;
```

OUTPUT

year	total
2020	51

7.PRINT ALL THE FUEL CARS BY YEARS?

```sql
SELECT year
      ,fuel
FROM Cardekho
GROUP BY year;
```

OUTPUT

year	fuel
1983	Diesel
1991	LPG
1994	Diesel
1995	Diesel
1996	Diesel
1997	Diesel
1998	Diesel
1999	Petrol
2000	Diesel

OUTPUT

year	fuel
2001	Petrol
2002	Petrol
2003	Petrol
2004	Diesel
2005	Diesel
2006	Petrol
2007	Diesel
2008	Diesel
2009	Diesel

OUTPUT

year	fuel
2010	Petrol
2011	Diesel
2012	Diesel
2013	Diesel
2014	Diesel
2015	Diesel
2016	Diesel
2017	Diesel
2018	Diesel

OUTPUT

year	fuel
2019	Petrol
2020	Diesel
2021	Diesel
2022	Petrol
2023	Petrol

8.WHICH YEAR HAS MORE THAN 100 CARS?

```sql
SELECT year
      ,COUNT(name) AS cars
FROM Cardekho
GROUP BY year
HAVING  COUNT(name) >100;
```

OUTPUT

year	cars
2006	124
2007	183
2008	214
2009	246
2010	394
2011	592
2012	651
2013	670
2014	621

OUTPUT

year	cars
2015	776
2016	859
2017	1018
2018	807
2019	583

9.TOTAL NUMBER OF CARS BETWEEN THE YEAR 2015 AND 2023?

```sql
SELECT year
      ,COUNT(name) AS total_no_of_cars
FROM Cardekho
WHERE year BETWEEN 2015 AND 2023
GROUP BY year;
```

OUTPUT

year	total_no_of_cars
2015	776
2016	859
2017	1018
2018	807
2019	583
2020	74
2021	7
2022	7
2023	6

10. ALL CARS DETAIL BETWEEN 2015 AND 2023?

```sql
SELECT *
FROM Cardekho
WHERE year BETWEEN 2015 AND 2023
GROUP BY year;
```

OUTPUT

N...	year	selli...	km_...	fuel	selle...	tran...	owner	mile...	engine	max...	torque	seats
Audi ...	2015	1750...	37000	Diesel	Dealer	Auto...	First ...	18.25...	1968 ...	187.7...	400N...	5
Audi ...	2016	1898...	46000	Diesel	Dealer	Auto...	First ...	18.25...	1968 ...	187.7...	400N...	5
Audi ...	2017	2600...	70000	Diesel	Indivi...	Auto...	First ...	20.38...	1968 ...	143 bhp	320N...	5
Audi ...	2018	3000...	20000	Diesel	Indivi...	Auto...	First ...	20.38...	1968 ...	143 bhp	320N...	5
Audi ...	2019	6223...	7800	Petrol	Dealer	Auto...	Test ...	15.26...	1798 ...	187.7...	320N...	5
BMW...	2020	7200...	5000	Diesel	Indivi...	Auto...	First ...	13.38...	2993	265 bhp	620N...	7
Hyun...	2021	1950...	8000	Diesel	Indivi...	Auto...	First ...	13.38...	2993 ...	265 bhp	620N...	5
Marut...	2022	425000	1994	Petrol	Dealer	Manual	First ...	19.47...	999 CC	113.9...	178Nm	5
Marut...	2023	410000	10000	Petrol	Indivi...	Manual	First ...	19.03...	999 CC	71.01...	96Nm	5

Thank You

Please feel free to share your feedback in comments

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