



**Car Dekho**

Badthe India ka Bharosa

# CAR DEALING ANALYSIS

Presented by:

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**SQL PROJECT**

# OBJECTIVE

- 1 **Optimize Database Management:** Efficiently organize and manage car inventory data and implement robust MySQL queries to handle large datasets with high performance.
- 2 **Enhance User Experience:** Develop dynamic and responsive queries to deliver fast search results and ensure accurate data retrieval for reliable and relevant car listings.
- 3 **Facilitate Data Analysis and Reporting:** Enable comprehensive data analysis to identify market trends, and generate detailed reports to support strategic decision-making and business planning.

# Database Schema

car_analysis	
◆	Name TEXT
◆	year INT
◆	selling_price INT
◆	km_driven INT
◆	fuel TEXT
◆	seller_type TEXT
◆	transmission TEXT
◆	owner TEXT
◆	mileage TEXT
◆	engine TEXT
◆	max_power TEXT
◆	torque TEXT
◆	seats INT

# 1) Read Cars Data.

**Query: select \* from car\_analysis;**

Name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine	max_power	torque	seats
Maruti Alto 800 LXI Opt	2023	410000	10000	Petrol	Individual	Manual	First Owner	19.03 kmpl	999 CC	71.01bhp	96Nm	5
Skoda Slavia 1.0 TSI Ambition	2023	1350000	10000	Petrol	Individual	Manual	First Owner	14.08 kmpl	1956 CC	167.67bhp	350Nm	5
BMW 3 Series Gran Limousine 320Ld Luxury Line	2023	5800000	1000	Diesel	Dealer	Automatic	First Owner	18.15 kmpl	998 CC	118.35bhp	172Nm	5
MG ZS EV Exclusive	2023	2650000	10000	Electric	Dealer	Automatic	First Owner	32.52 kmpl	998 CC	58.33bhp	78Nm	5
Tata Punch Adventure	2023	715000	10000	Petrol	Individual	Manual	First Owner	12.15 kmpl	1451 CC	141bhp	250Nm	5
Maruti S-Presso VXi Plus	2023	450000	30171	Petrol	Individual	Manual	First Owner	19.03 kmpl	999 CC	71.01bhp	96Nm	5
Maruti S-Presso LXi	2022	425000	1994	Petrol	Dealer	Manual	First Owner	19.47 kmpl	999 CC	113.98bhp	178Nm	5
Hyundai Creta SX Turbo	2022	1895000	22000	Petrol	Individual	Automatic	First Owner	12.15 kmpl	1997 CC	296.3bhp	400Nm	5
Renault Kiger RXT AMT Opt DT	2022	842000	6424	Petrol	Individual	Automatic	First Owner	14.08 kmpl	1956 CC	167.67bhp	350Nm	5
Renault KWID CLIMBER	2022	567000	5148	Petrol	Dealer	Manual	First Owner	18.15 kmpl	998 CC	118.35bhp	172Nm	5
Mahindra XUV300 W8 Diesel Sunroof	2022	1197000	5030	Diesel	Individual	Manual	Second O...	32.52 kmpl	998 CC	58.33bhp	78Nm	5
Mahindra XUV700 AX5 Diesel AT	2022	2275000	28000	Diesel	Individual	Automatic	First Owner	12.15 kmpl	1451 CC	141bhp	250Nm	5
Renault Triber RXT	2022	800000	10000	Petrol	Individual	Manual	Second O...	21.01 kmpl	1197 CC	81.80bhp	113Nm	5
Hyundai Creta SX Diesel AT	2021	1950000	8000	Diesel	Individual	Automatic	First Owner	13.38 kmpl	2993 CC	265 bhp	620N...	5
Renault KWID CLIMBER	2021	567000	5868	Petrol	Individual	Manual	First Owner	18.15 kmpl	998 CC	118.35bhp	172Nm	5
Nissan Magnite XV Premium	2021	850000	2963	Petrol	Individual	Manual	First Owner	32.52 kmpl	998 CC	58.33bhp	78Nm	5
Renault Triber RXZ	2021	785000	11192	Petrol	Individual	Manual	Second O...	12.15 kmpl	1451 CC	141bhp	250Nm	5

**2) Total Cars To get a count of total records.**

**Query: select count(\*) Total\_Cars from Car\_analysis;**

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Total_Cars			
▶	7927			

**3) The Manager asked the employee how many cars will be available in 2023?**

```
select count(*) Total_Cars_2023 from  
Car_analysis where year=2023;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Total_Cars_2023			
▶	6			

**4)The Manager asked the employee How many cars is available in 2020,2021,2022.**

```
select year,count(*)Available_cars from Car_analysis  
where year in (2020,2021,2022)  
group by year order by year asc;
```

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

	year	Available_cars
▶	2020	74
	2021	7
	2022	7

**5)Clint asked me to print the total of all cars by year. I don't see all the details.**

```
select year,count(*) Total_Cars from Car_analysis  
group by year order by year asc;
```

	year	Total_Cars
▶	1994	2
	1995	1
	1996	2
	1997	9
	1998	9
	1999	14
	2000	16
	2001	6
	2002	19
	2003	37
	2004	51
	2005	76
	2006	102
	2007	173
	2008	201
	2009	231
	2010	375
	2011	570

**6) Clint asked to car dealer agent how many diesel cars will there be in 2020.**

```
select count(*) diesel_cars_2020 from Car_analysis  
where fuel='Diesel' and year=2020;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	diesel_cars_2020			
▶	20			

**7)Clint requested a car dealer agent how many petrol cars will there be in 2020?**

```
select count(*) Petrol_cars_2020 from Car_analysis  
where fuel='Petrol' and year=2020;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Petrol_cars_2020			
▶	51			

**8) Manager said there were more than 100 cars in a given year, which year had more than 100 cars?**

```
select year,count(*) More_than_100 from Car_analysis  
group by year  
having More_than_100>100 order by year asc;
```

	year	More_than_100
▶	2006	102
	2007	173
	2008	201
	2009	231
	2010	375
	2011	570
	2012	621
	2013	668
	2014	620
	2015	775
	2016	856
	2017	1010
	2018	806
	2019	583

**9)The manager said to the employee all cars count details between 2015 and 2023; we need a complete list.**

```
select count(*) as All_Cars_in_2015_and_2023 from  
Car_analysis  
where year between 2015 and 2023;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	All_Cars_in_2015_and_2023			4124

**10) Retrieve all cars that have a selling price between 5,000000 and 10,000000**

```
select * from Car_analysis where  
    selling_price  
between 300000 and 500000;
```

**11) Retrieve the number of cars for each type of fuel.**

```
select fuel,count(*) Total_cars from Car_analysis  
group by fuel;
```

	fuel	Total_cars
▶	Petrol	3534
	Diesel	4304
	Electric	1
	CNG	53
	LPG	35

**12) Retrieve the top 10 most expensive cars, along with their selling prices, years, and fuel types.**

```
select * from Car_analysis order by  
selling_price desc limit 10;
```

	Name	year	selling_price	km_driven	Fuel	seller_type	transmission	owner	mileage	engine	max_power	torque	seats
▶	Volvo XC90 T8 Excellence BSIV	2017	10000000	30000	Petrol	Individual	Automatic	First Owner	42.0 kmpl	1969 CC	400 bhp	640Nm@ 1740rpm	4
	BMW X7 xDrive 30d DPE	2020	7200000	5000	Diesel	Individual	Automatic	First Owner	13.38 kmpl	2993 CC	265 bhp	620Nm@ 1500-2500rpm	7
	Audi A6 35 TFSI Matrix	2019	6523000	23600	Petrol	Dealer	Automatic	Test Drive Car	15.26 kmpl	1798 CC	187.74 bhp	320Nm@ 1400-4100rpm	5
	Audi A6 35 TFSI Matrix	2019	6223000	7800	Petrol	Dealer	Automatic	Test Drive Car	15.26 kmpl	1798 CC	187.74 bhp	320Nm@ 1400-4100rpm	5
	BMW 6 Series GT 630d Luxury Line	2018	6000000	28156	Diesel	Dealer	Automatic	First Owner	17.09 kmpl	2993 CC	261.4 bhp	620Nm@ 2000-2500rpm	4
	BMW 6 Series GT 630d Luxury Line	2018	6000000	28156	Diesel	Dealer	Automatic	First Owner	17.09 kmpl	2993 CC	261.4 bhp	620Nm@ 2000-2500rpm	4
	BMW 6 Series GT 630d Luxury Line	2018	6000000	27000	Diesel	Dealer	Automatic	First Owner	17.09 kmpl	2993 CC	261.4 bhp	620Nm@ 2000-2500rpm	4
	Mercedes-Benz S-Class S 350 CDI	2017	6000000	37000	Diesel	Dealer	Automatic	First Owner	13.5 kmpl	2987 CC	254.79 bhp	620Nm@ 1600-2400rpm	5
	Mercedes-Benz S-Class S 350 CDI	2017	6000000	37000	Diesel	Dealer	Automatic	First Owner	13.5 kmpl	2987 CC	254.79 bhp	620Nm@ 1600-2400rpm	5
	Mercedes-Benz S-Class S 350 CDI	2017	6000000	37000	Diesel	Dealer	Automatic	First Owner	13.5 kmpl	2987 CC	254.79 bhp	620Nm@ 1600-2400rpm	5

**13) Retrieve all cars that have been driven less than 10,000 kilometers, have a selling price between 500000 and 1000000 dollars and are being sold by individual sellers.**

```
select * from Car_analysis where km_driven<10000 and  
selling_price between 500000 and 1000000;
```

**14) Retrieve the top 5 cars with the highest mileage and their corresponding fuel types.**

```
select distinct(name),fuel,mileage from Car_analysis  
order by mileage desc limit 5;
```

	name	fuel	mileage
▶	Jeep Wrangler 2016-2019 3.6 4X4	Petrol	9.5 kmpl
	Honda Accord V6 AT	Petrol	9.0 kmpl
	Volvo S60 D4 SUMMUM	Diesel	9.0 kmpl
	Volvo XC90 T8 Excellence BSIV	Petrol	42.0 kmpl
	Maruti Alto 800 CNG LXI	CNG	33.44 km/kg

**15) Retrieve the top 10 cars with the highest maximum power output and their corresponding fuel types.**

**select distinct Name, max\_power as Max\_Power,fuel as Fuel from Car\_analysis;**

	Name	Max_Power	Fuel
▶	Maruti Alto 800 LXI Opt	71.01bhp	Petrol
	Skoda Slavia 1.0 TSI Ambition	167.67bhp	Petrol
	BMW 3 Series Gran Limousine 320Ld Luxury Line	118.35bhp	Diesel
	MG ZS EV Exclusive	58.33bhp	Electric
	Tata Punch Adventure	141bhp	Petrol
	Maruti S-Presso VXi Plus	71.01bhp	Petrol
	Maruti S-Presso LXi	113.98bhp	Petrol
	Hyundai Creta SX Turbo	296.3bhp	Petrol
	Renault Kiger RXT AMT Opt DT	167.67bhp	Petrol
	Renault KWID CLIMBER	118.35bhp	Petrol
	Mahindra XUV300 W8 Diesel Sunroof	58.33bhp	Diesel
	Mahindra XUV700 AX5 Diesel AT	141bhp	Diesel
	Renault Triber RXT	81.80bhp	Petrol
	Hyundai Creta SX Diesel AT	265 bhp	Diesel
	Nissan Magnite XV Premium	58.33bhp	Petrol
	Renault Triber RXZ	141bhp	Petrol
	Hyundai Tucson Platinum AT	81.80bhp	Petrol
		100.00bhp	Petrol

# OUR CONTACTS



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*Thank  
You*