
CARDEKHO

Project Overview

The Car Dekho MySQL portfolio project aims to develop a robust and scalable database system to enhance the performance and efficiency of the Car Dekho platform. The project primarily focuses on designing and implementing a MySQL database to store and manage critical information related to cars, clients, dealers, Managers, and transactions.

Tool Use

MySQL (For Analysis)
Canva(For Presentation)

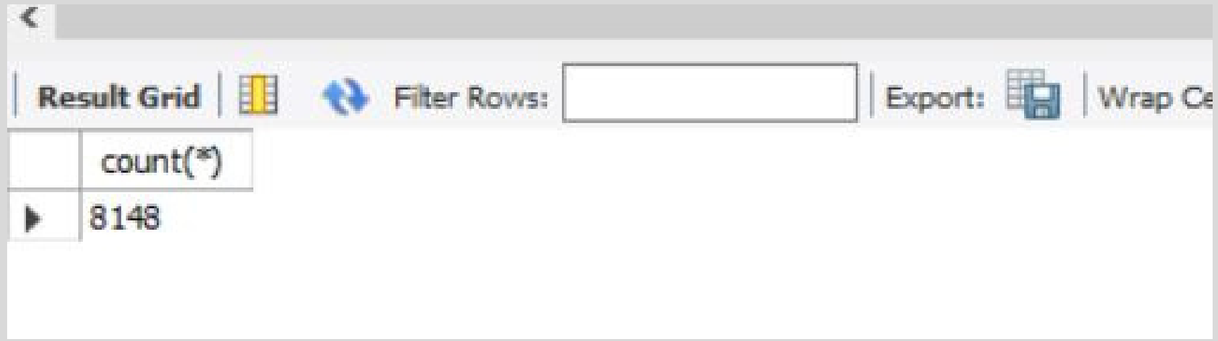
Columns in Database

Info | Tables | Columns | Indexes | Triggers | Views | Stored Procedures | Functions | Grants | Events

Table	Column	Type	Default Value	Nullable	Character Set	Collation	Privileges	Extra	Comments
car_dekho	Name	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	year	int		YES			select,insert,update,references		
car_dekho	selling_price	int		YES			select,insert,update,references		
car_dekho	km_driven	int		YES			select,insert,update,references		
car_dekho	fuel	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	seller_type	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	transmission	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	owner	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	mileage	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	engine	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	max_power	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	torque	text		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references		
car_dekho	seats	int		YES			select,insert,update,references		

Insights

```sql
-- Total cars: To get a count of total records
select count(*) from car_dekho;
```

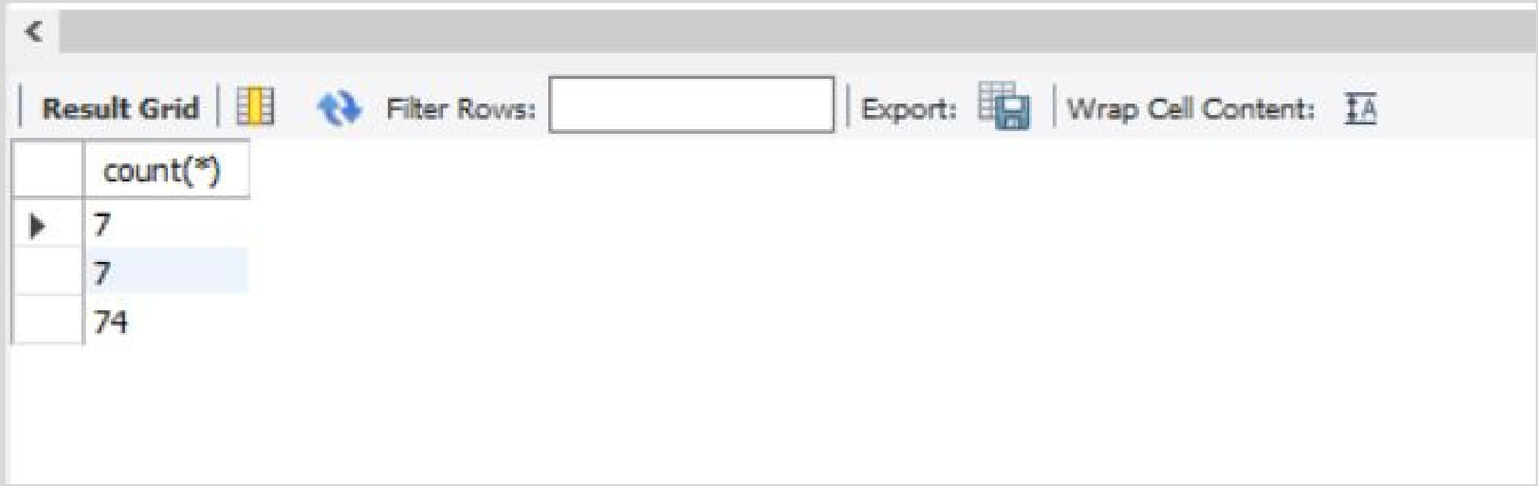


Insights

```sql
-- The manager asked the employee How many cars will be available in 2023?
select count(*) from car_dekho where year =2023;
```

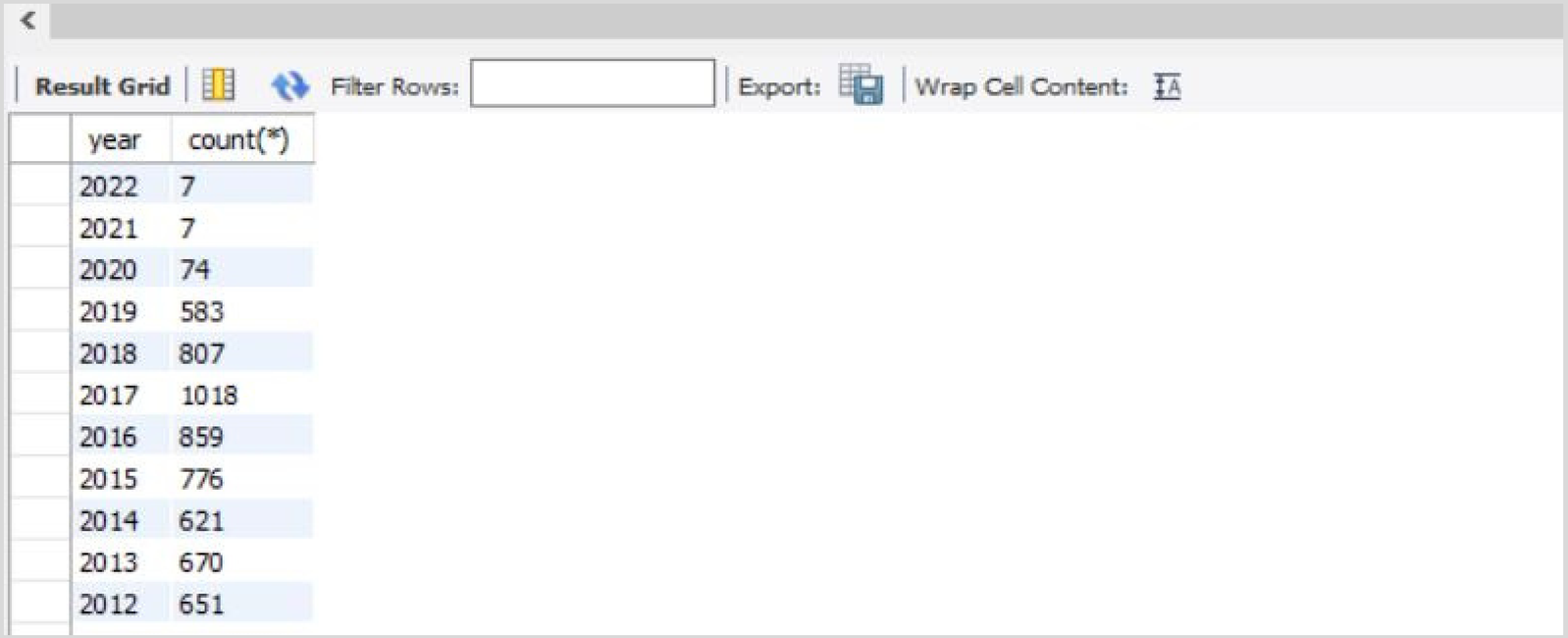
Insights

```
15      -- The manager asked the employee how many cars is available in 2020, 2021 and 2022?
16
17 •    select count(*) from car_dekho where year in (2020,2021,2022) group by year;
```



Insights

```sql
-- Client asked me to print the total of all cars by year.
select year,count(*) from car_dekho group by year;
```



year	count(*)
2022	7
2021	7
2020	74
2019	583
2018	807
2017	1018
2016	859
2015	776
2014	621
2013	670
2012	651

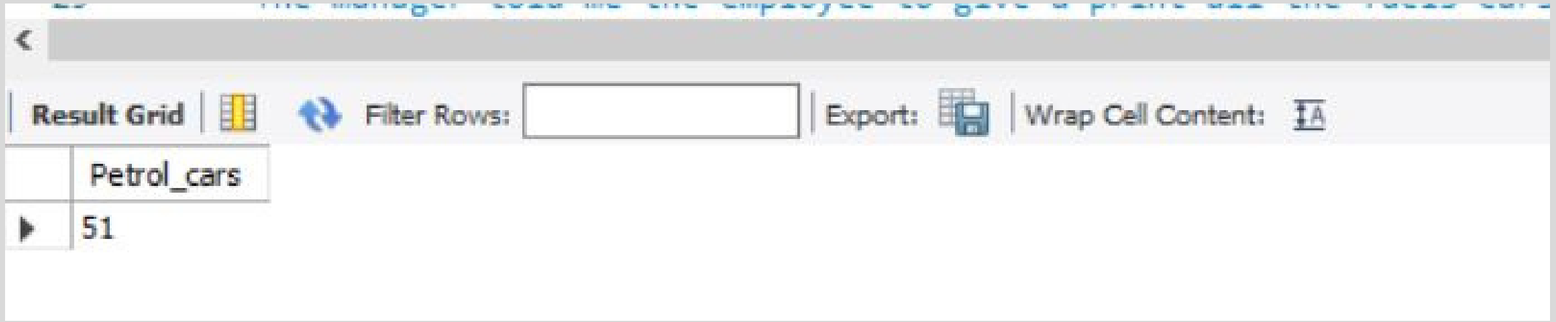
Insights

```
-- Client asked the car dealer agent How many diesel cars will there be in 2020?

select count(*) as diesel_cars from car_dekho where year="2020" and fuel="Diesel";
```

Insights

```
-- client requested a car dealer agent how many petrol cars will there be in 2020?
select count(*) as Petrol_cars from car_dekho where year="2020" and fuel="Petrol";
```



Insights

```sql
-- The manager told me the employee to give a print all the fuels cars(petrol,diesel and
-- cng ) come by all year.

SELECT
    year,
    COUNT(CASE WHEN fuel = 'petrol' THEN 1 ELSE NULL END) AS fuel_list_petrol,
    COUNT(CASE WHEN fuel = 'diesel' THEN 1 ELSE NULL END) AS fuel_list_diesel,
    COUNT(CASE WHEN fuel = 'cng' THEN 1 ELSE NULL END) AS fuel_list_cng
FROM
    car_dekho
WHERE
    fuel IN ('petrol', 'diesel','cng')
GROUP BY
    year;
```

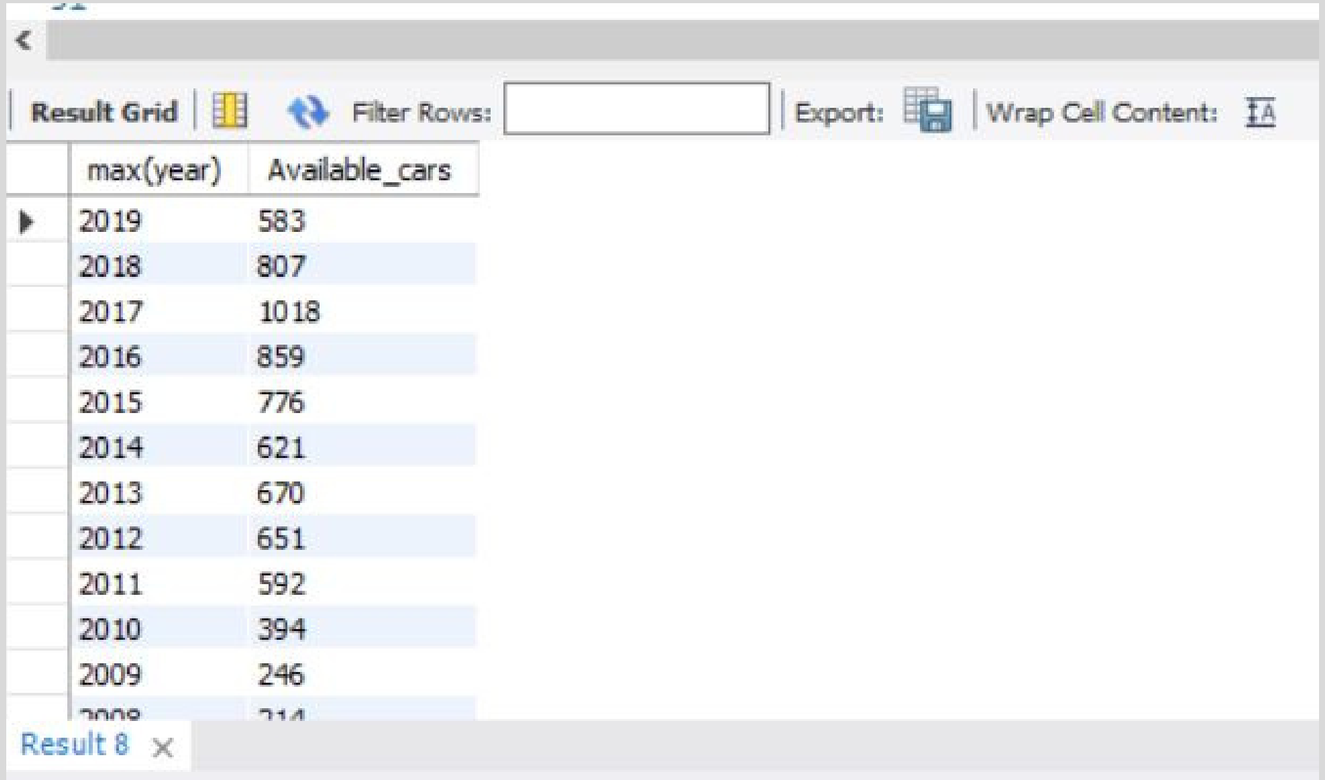
year	fuel_list_petrol	fuel_list_diesel	fuel_list_cng
2023	4	1	0
2022	5	2	0
2021	5	2	0
2020	51	20	3
2019	352	224	7
2018	394	408	5
2017	432	577	9
2016	429	424	6
2015	278	494	2
2014	202	415	4
2013	203	462	3

Result 7

Insights

```sql
-- Manager said there were more than 100 cars in a given year, which year had more
-- than 100 cars?

select max(year),count(*) as Available_cars from car_dekho group by
year having count(*)>100;
```



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

max(year)	Available_cars
2019	583
2018	807
2017	1018
2016	859
2015	776
2014	621
2013	670
2012	651
2011	592
2010	394
2009	246

Result 8

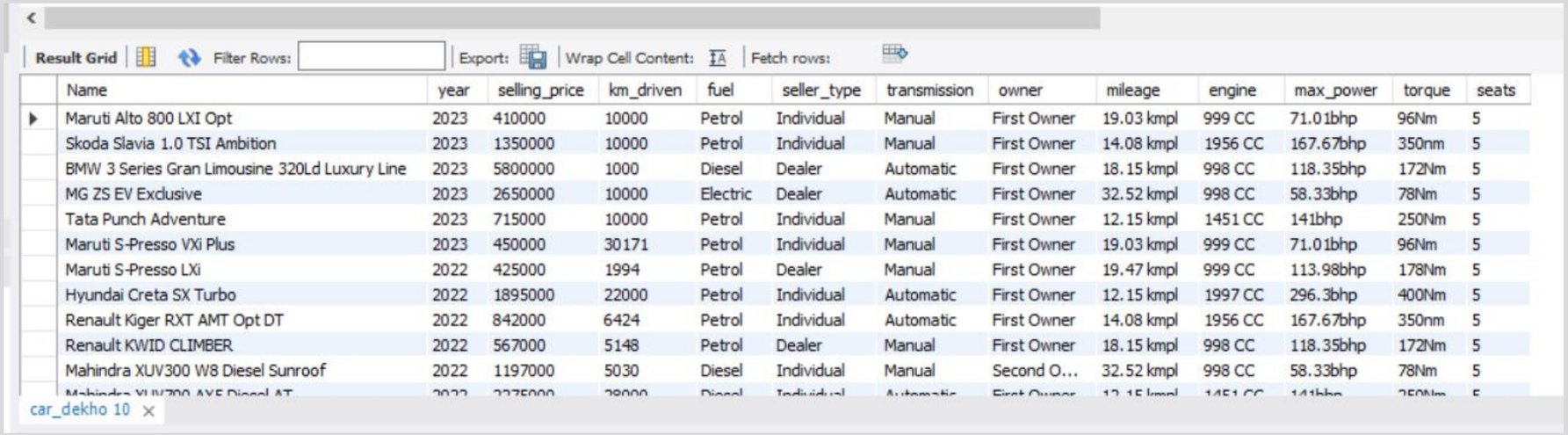
Insights

```
51
52      -- The manager said to the employee all cars count details between 2015 and 2023,
53      -- we need a complete list
54
55      select count(*) as car_list from car_dekho where year between 2015 and 2023;
56
```

Insights

```
-- The Manager said to the employee all the cars details between 2015 to 2023 we need
-- complete list

select * from car_dekho where year between 2015 and 2023;
```



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

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

car_dekho 10

Conclusion

The CarDekho MySQL Portfolio Project is a database-focused initiative aimed at optimizing and enhancing the performance of the CarDekho platform. This project involves the design and implementation of a MySQL database to efficiently manage and organize crucial data related to cars, users, dealers, and transactions.