

CAR DEKHO

-----Exploratory Analysis -----

1). Overall distribution of cars by their manufacturing year?

Query:

```
SELECT year, COUNT(*) AS num_cars
FROM Car_dekho
GROUP BY year
ORDER BY num_cars DESC;
```

Result:

	year	num_cars
▶	2017	1010
	2016	856
	2018	806
	2015	775
	2013	668

2). Selling price variation based on the number of kilometers driven?

Query:

```
SELECT
    CASE
        WHEN km_driven < 50000 THEN 'Less than 50k km'
        WHEN km_driven BETWEEN 50000 AND 100000 THEN '50k - 100k km'
        ELSE 'More than 100k km'
    END AS km_range,
    AVG(selling_price) AS avg_selling_price
FROM Car_dekho
GROUP BY km_range;
```

Result:

	km_range	avg_selling_price
▶	Less than 50k km	967561.3288
	50k - 100k km	486789.2361
	More than 100k km	416156.9095

3). Most common fuel type among the listed cars?

Query:

```
SELECT fuel, COUNT(*) AS num_cars
FROM Car_dekho
GROUP BY fuel
ORDER BY num_cars DESC
LIMIT 1;
```

Result:

	fuel	num_cars
▶	Diesel	4304

4). Average mileage of cars?

Query:

```
SELECT AVG(CAST(REPLACE(mileage, ' kmp1', '') AS DECIMAL)) AS avg_mileage
FROM Car_dekho;
```

Result:

	avg_mileage
▶	19.4452

5). Distribution of cars based on the number of seats?

Query:

```
SELECT seats, COUNT(*) AS num_cars
FROM Car_dekho
GROUP BY seats
ORDER BY num_cars DESC;
```

Result:

	seats	num_cars
▶	5	6274
	7	1120
	8	236
	4	133
	9	80

6). Number of cars listed by individual sellers vs dealers?

Query:

```
SELECT seller_type, COUNT(*) AS num_cars  
FROM Car_dekho  
GROUP BY seller_type;
```

Result:

	seller_type	num_cars
▶	Individual	6578
	Dealer	1113
	Trustmark Dealer	236