

03/23/2025

# ***CAR FEATURE ANALYSIS USING EXCEL***

---

*Find Your Perfect Ride Today*

MADHURA VIRKAR





# AGENDA

1. General Data Analysis
2. KPI-Based Analysis
3. Pivot Table Analysis
4. Analysis using SUMIFS, COUNTIFS, AVERAGEIFS, MINIFS, MAXIFS



# 1. GENERAL DATA ANALYSIS

**01** *What is the average price of all listed cars?*

Total cars listed	Average price
2017	10.52 Lakh



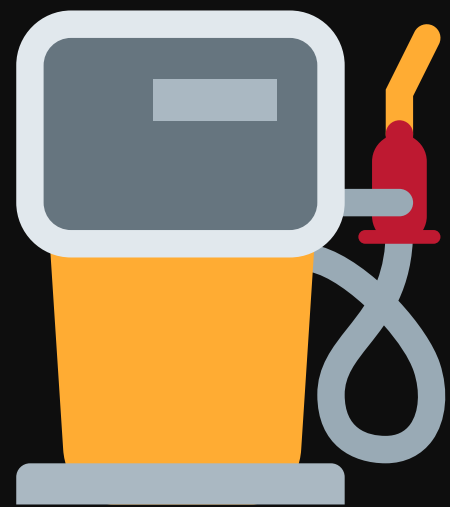
## 02 *How many cars are available for sale in each city?*

City	No. of cars	City	No. of cars
Ahmedabad	57	Jaipur	147
Bangalore	112	Kochi	217
Chennai	188	Kolkata	185
Coimbatore	204	Mumbai	299
Delhi	159	Pune	226
Hyderabad	223		

03 *What is the most common fuel type in the dataset?*

**Most common fuel type**

**Diesel**



**Diesel**





## 04 *How many cars are automatic vs. manual transmission?*

Cars	
Automatic	Manual
647	1370



**05** *What is the average mileage of diesel cars compared to petrol cars?*

Mileage	
Diesel	Petrol
18.09	16.26



**06** *Which car has the highest power output?*

**Car with Highest power output**

Bentley Flying Spur W12





**07** *Which car has the lowest mileage?*

**Car with lowest mileage**

Lamborghini Gallardo  
Coupe



**08** *What is the average price difference between first-owner and second-owner cars?*

Price difference	
First owner	Second owner
11.36	7.49



09

*What is the total number of cars available in Mumbai?*

**No. of cars in Mumbai**

**299**



**10** *Which brand has the highest number of cars listed?*

**Brand having highest number of cars**

**Maruti**

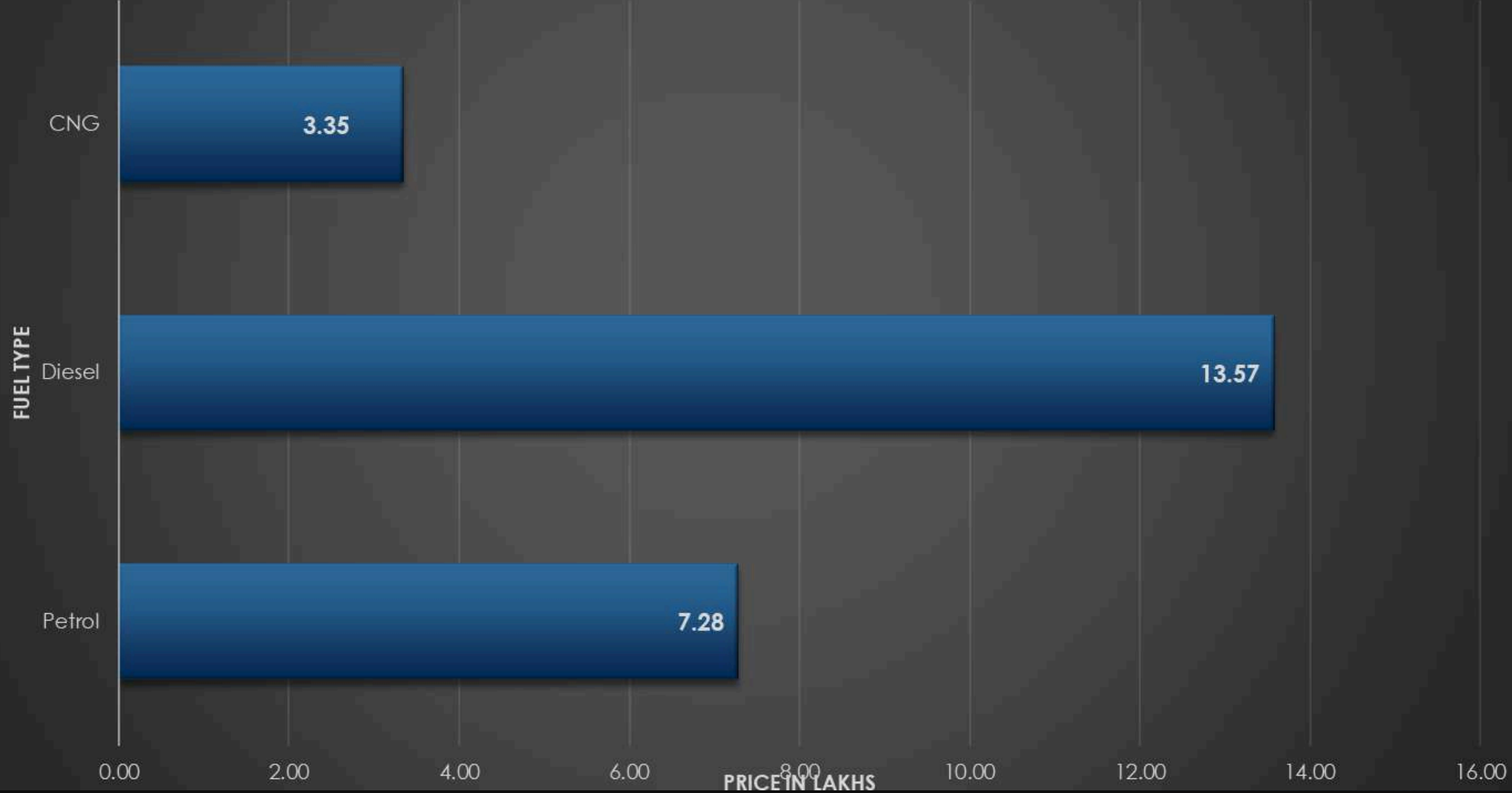




# 2. KPI-BASED ANALYSIS

**11** *What is the average price of petrol vs. diesel vs. CNG cars?*

Average price comparison



Petrol	Diesel	CNG
7.28	13.57	3.35



12 **11. What is the average kilometers driven for first-owner cars vs. second-owner cars?**

55570.15

73714.98

First  
owner

Second  
owner

Car  
ownership

First  
owner

Second  
owner

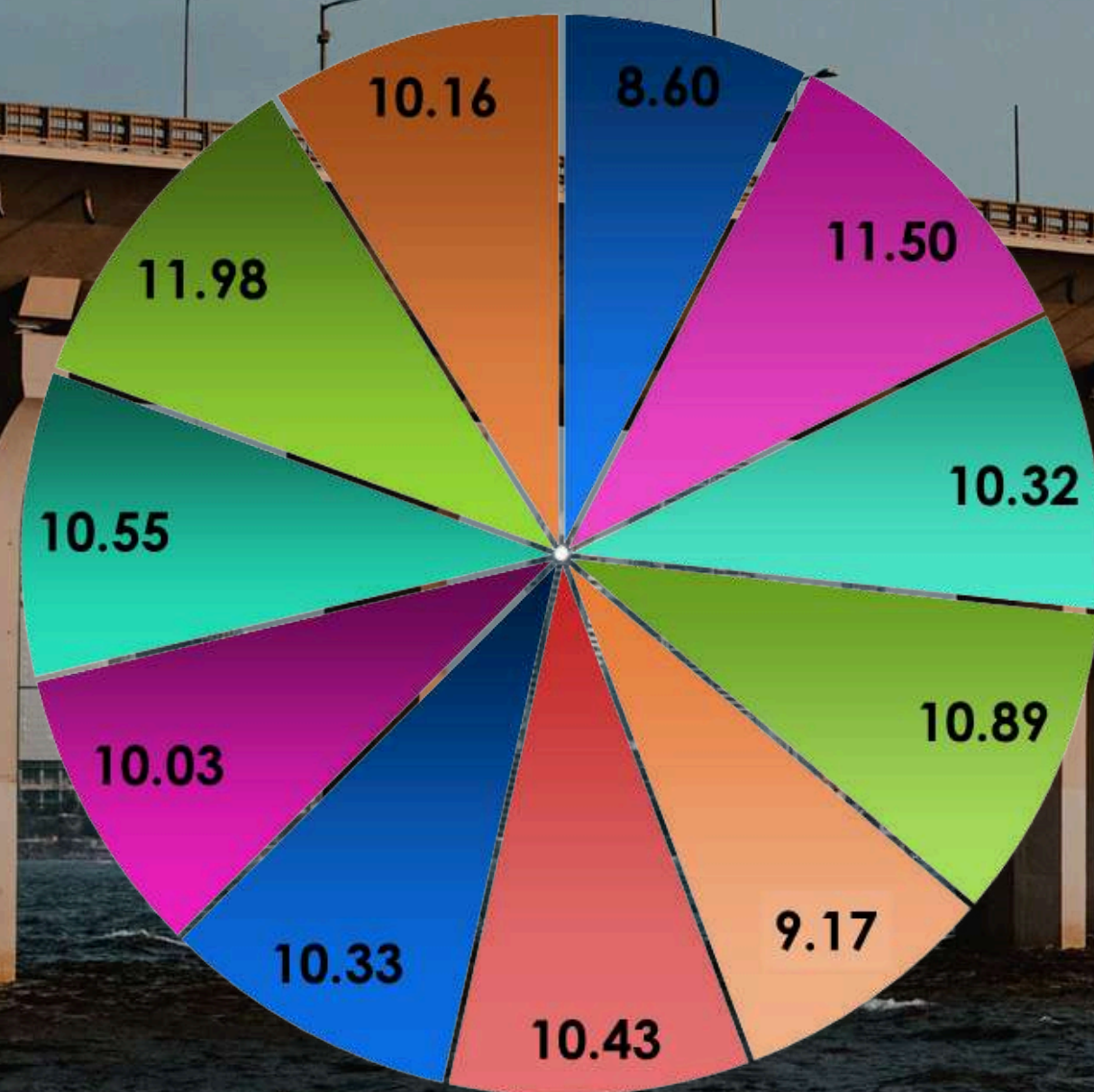
55570.15

73714.98



## 13 11. Which city has the highest average car price?

Citywise price comparison



- Ahmedabad
- Bangalore
- Chennai
- Coimbatore
- Delhi
- Hyderabad
- Jaipur
- Kochi
- Kolkata
- Mumbai
- Pune

**Mumbai has highest price as 11.98 Lakh**



## 14 What is the average power (bhp) of cars in each fuel type?



Fuel Type

CNG

68.12  
bhp

Diesel

128.03  
bhp

Electric

57.00  
bhp

LPG

63.08  
bhp

Petrol

112.39  
bhp



## 15 What is the average seating capacity of cars in the dataset?

2

Lamborghini  
Smart

4

Mini  
Porsche

5

Ambassador	Renault	Ford	Bentley
Volkswagen	Skoda	Hindustan	BMW
Volvo	Nissan	Honda	
Tata	OpelCorsa	Hyundai	
Maruti	Jaguar	Fiat	
Mercedes-Benz	Jeep	Audi	

6

Chevrolet	Isuzu	Mitsubishi
Datsun	Land	Toyota

7

Force  
Mahindra

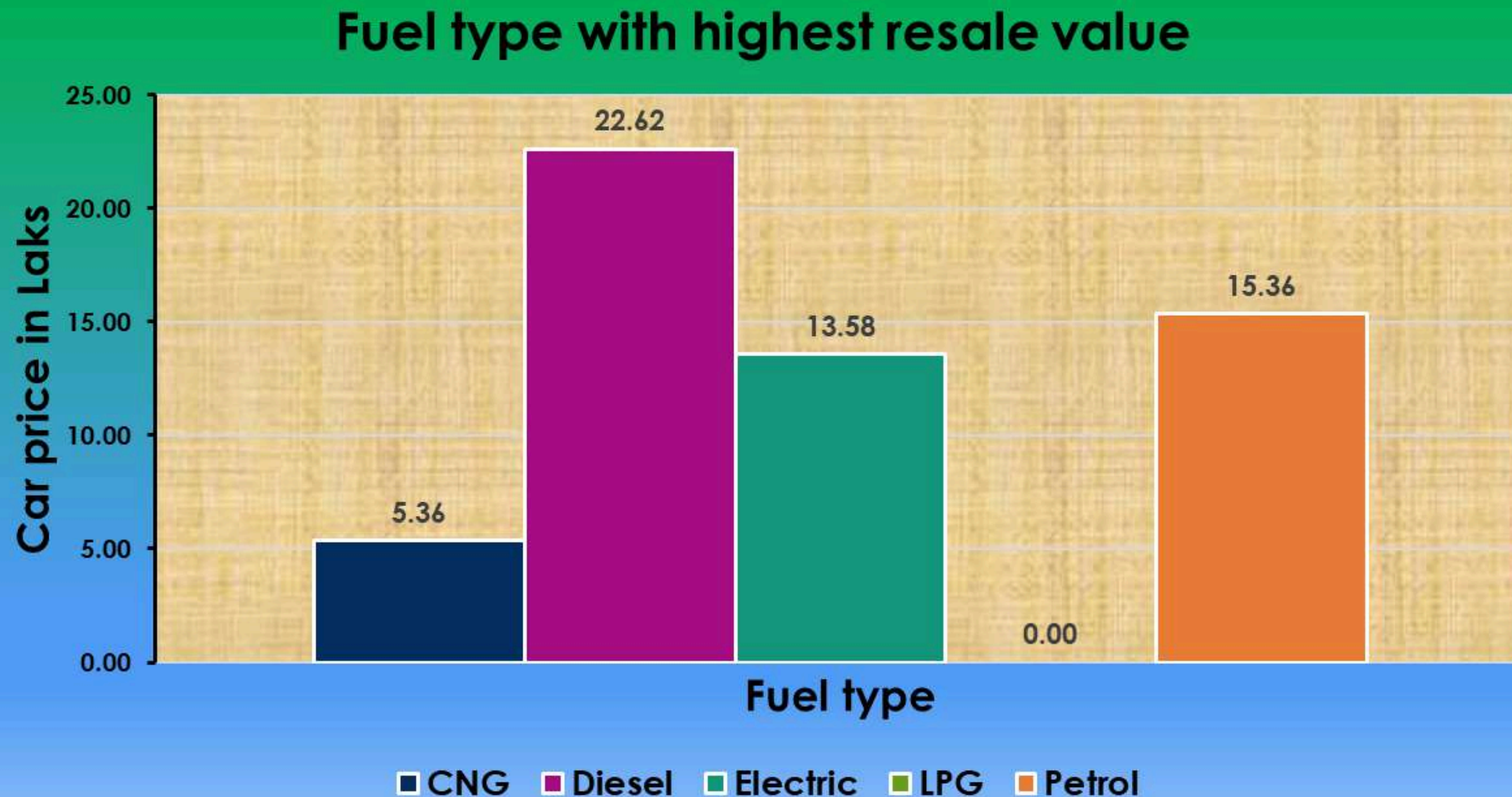
16

**11. What is the price difference between new and used cars for those with "New Price" available?**





17 ***Which fuel type has the highest resale value (average used car price)?***

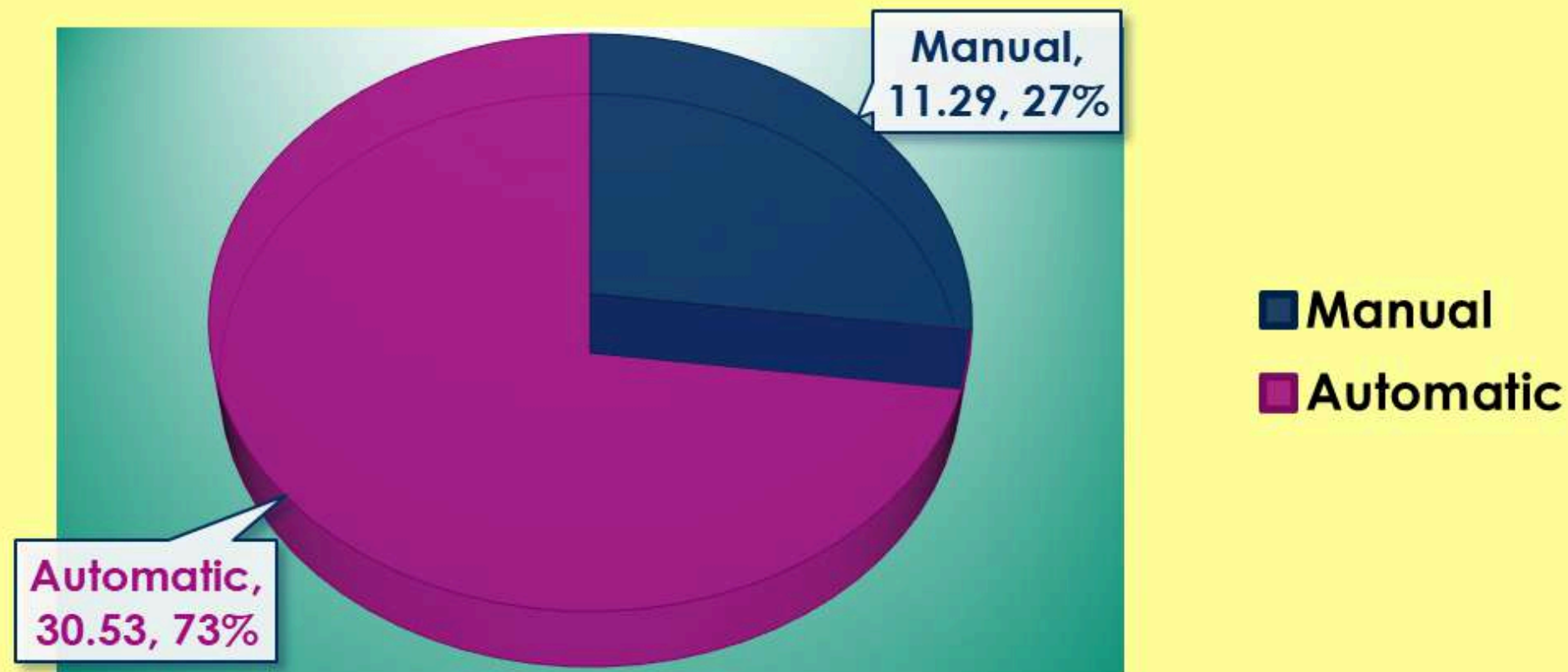


Diesel cars have more resale value



**18** Which transmission type (manual or automatic) has a higher resale value on average?

TRANSMISSION TYPE RESALE VALUE



Automatic cars have more resale value





## 19 What is the price trend for newer vs. older cars?





# 3. PIVOT TABLE ANALYSIS

**20** PivotTable showing the total number of cars per city.



Row Labels ▼	Count of Name
Ahmedabad	57
Bangalore	112
Chennai	188
Coimbatore	204
Delhi	159
Hyderabad	223
Jaipur	147
Kochi	217
Kolkata	185
Mumbai	299
Pune	226
(blank)	
<b>Grand Total</b>	<b>2017</b>





## 21 *PivotTable showing the sum of prices by fuel type.*

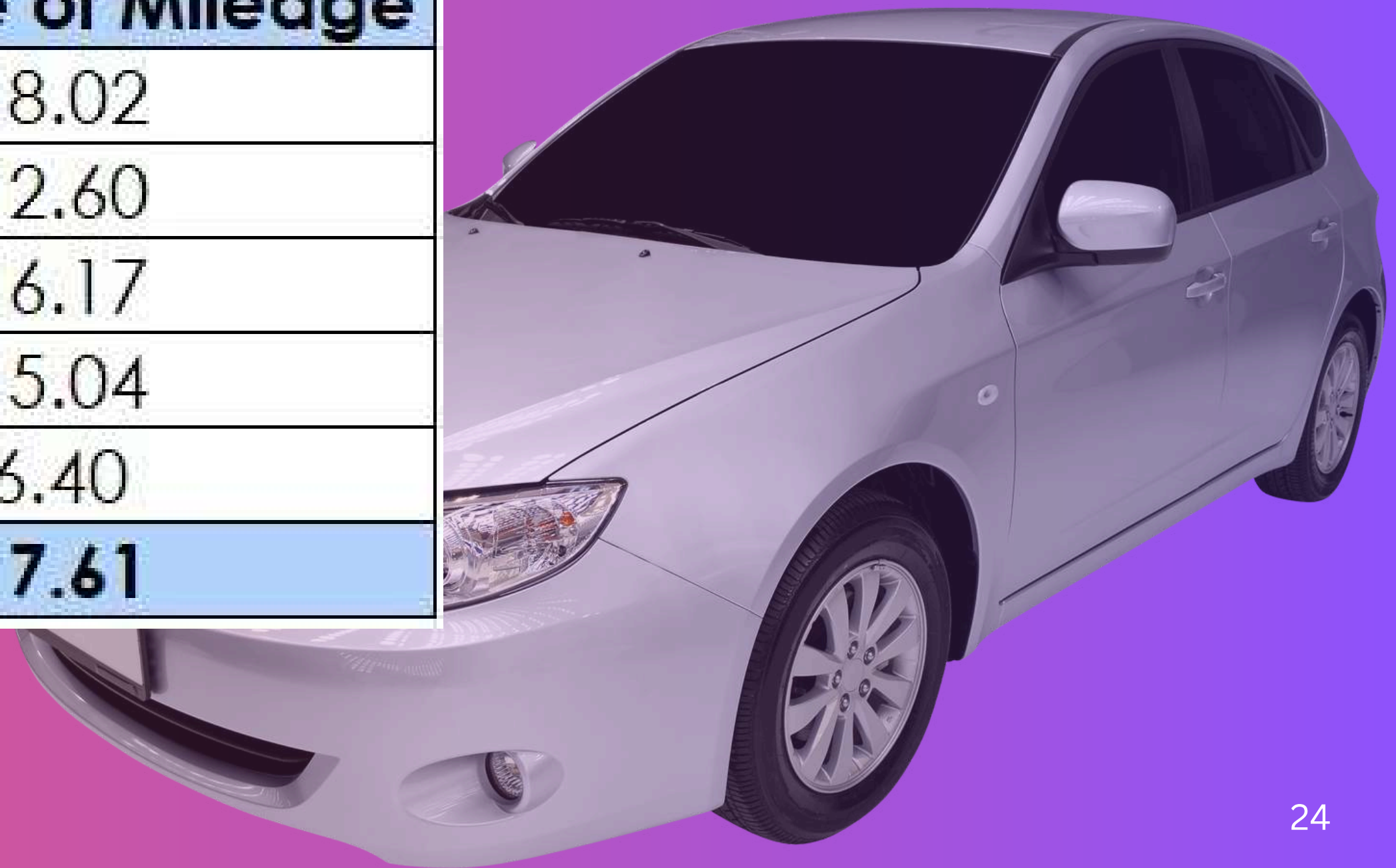
Row Labels	Sum of Price
CNG	60.22
Diesel	13181.12
Electric	25.75
LPG	21.77
Petrol	6202.44
(blank)	
<b>Grand Total</b>	<b>19491.3</b>





## 22 *PivotTable showing the average mileage of cars by owner type.*

Row Labels ▼	Average of Mileage
First	18.02
Fourth & Above	12.60
Second	16.17
Third	15.04
(blank)	6.40
<b>Grand Total</b>	<b>17.61</b>





**23** *PivotTable showing the total number of cars by transmission type.*

Row Label	Count of Name
Automatic	647
Manual	1370
(blank)	
Grand Total	2017





24

***PivotTable showing the total number of cars per year.***

Row Labels	Count of Name	Row Labels	Count of Name
1996	1	2009	69
1998	3	2010	144
1999	1	2011	141
2000	4	2012	165
2001	6	2013	180
2002	9	2014	208
2003	13	2015	200
2004	15	2016	236
2005	27	2017	237
2006	37	2018	128
2007	64	2019	55
2008	74	(blank)	
<b>Grand Total</b>		<b>2017</b>	



# 4. IFS BASED QUESTIONS

25

**Use COUNTIFS to determine how many diesel cars have been driven less than 50,000 km.**

**Cars drove less than  
50,000km**

422



**26** Use **SUMIFS** to calculate the total price of all cars in Pune.

**Total  
price of cars in Pune(Lakhs)**

**1388.75**



**27** Use **AVERAGEIFS** to find the average mileage of manual transmission cars.

**Avg  
mileage of manual cars**

18.60 kmpl



**28** Use **MINIFS** to find the minimum price of diesel cars.

**Minimum  
price of Diesel cars**

60,000





**29** Use **MAXIFS** to find the maximum kilometers driven for a first-owner car.



**Max  
KM driven by first owner**

6500000



**30** Use **COUNTIFS** to determine the number of cars from 2015 or newer.

**No.  
of cars from 2015 to newer**

856







Thank  
You!

