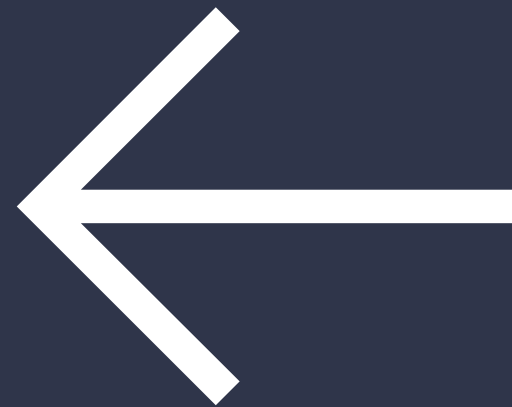


# CHATGPT USE CASE 1: GENERATE PRACTICE DATASETS



Background: I have a student who I'm teaching to be a Data Analyst, and need to generate sample problems for her to practice.

Let's see if ChatGPT can help us!

**ARE YOU READY  
FOR IT?**

**LET'S DIVE IN  
TOGETHER...**




# 1.Be Specific. Don't just ask it to generate a dataset. Specify what you want

IV

I want to create a table that has 10 columns, Column 1 = RowId, Column 2 = Customer Name, Column 3 = Customer ID, Column 4 = City, Column 5 = State, Column 6 = Country, Column 7 = Car Make,Column 8 = Car Type Column 9 = Asking Price, Column 10 = Price Sold, It also has 4 rows which you can randomly choose what to populate it with



Sure, here is an example table with four rows filled with randomly chosen information:



RowId	Customer Name	Customer ID	City	State	Country	Car Make	Car Type	Asking Price	Price Sold
1	John Smith	1234	New York	NY	USA	Toyota	Camry	\$15,000	\$14,000
2	Jane Doe	5678	Los Angeles	CA	USA	Honda	Civic	\$20,000	\$18,000
3	David Lee	9012	Toronto	ON	Canada	BMW	3 Series	\$30,000	\$28,000
4	Michael Kim	3456	London	N/A	UK	Mercedes	E-Class	\$40,000	\$35,000

## 2. Don't ask everything in one prompt, rather build upon your initial prompt.

This is a great start. Here are a few changes I need. First, Rename the Car Type column to Car Model. Second, the price sold can sometimes be higher than the asking price, incorporate that randomly. And last, give me 6 rows now

Sure, here's an updated table with the changes you requested:



RowId	Customer Name	Customer ID	City	State	Country	Car Make	Car Model	Asking Price	Price Sold
1	John Smith	1234	New York	NY	USA	Toyota	Camry	\$15,000	\$16,000
2	Jane Doe	5678	Los Angeles	CA	USA	Honda	Civic	\$20,000	\$22,500
3	David Lee	9012	Toronto	ON	Canada	BMW	3 Series	\$30,000	\$28,000
4	Michael Kim	3456	London	N/A	UK	Mercedes	E-Class	\$40,000	\$42,000
5	Emily Chen	7890	Beijing	N/A	China	Audi	A4	\$25,000	\$25,500
6	Juan Perez	2468	Mexico City	N/A	Mexico	Ford	Mustang	\$35,000	\$36,500

2.5 Not everything will be smooth. Keep experimenting. When I asked for 50 rows, it kept stopping at row 17.



13	Sarah Johnson	6789	Miami	FL	USA	Nissan	Altima	\$20,000	\$21,000
14	Michael Kim	3456	San Francisco	CA	USA	Audi	A6	\$45,000	\$47,000
15	David Lee	9012	Vancouver	BC	Canada	Mercedes	S-Class	\$55,000	\$60,000
16	Amy Chen	2345	Houston	TX	USA	BMW	X5	\$35,000	\$38,000
17	Jane Doe								

Turns out there is a character limit.  
Type "Continue" and it will generate  
more until it reaches the limit again.

continue

RowId	Customer Name	Customer ID	City	State	Country	Car Make	Car Model	 Asking Price	Price Sold
18	James Lee	4567	Houston	TX	USA	BMW	X5	\$55,000	\$58,000
19	Michael Kim	3456	Berlin	N/A	Germany	Porsche	911	\$90,000	\$92,000
20	Laura Chen	7890	Tokyo	N/A	Japan	Honda	CR-V	\$28,000	\$29,500
21	John Smith	1234	Toronto	ON	Canada	Toyota	Camry	\$25,000	\$24,000
22	Sarah Johnson	2345	San Francisco	CA	USA	Tesla	Model X	\$60,000	\$65,000
23	Emily	6789	Vancouver	BC	Canada	Ford	F-150	\$45,000	\$47,000

3. We have our dataset with 50 rows.  
Now it's time to generate some questions to practice on. Choose whatever questions based on your level

for the table with the 50 rows, please generate 10 excel questions of easy difficulty utilizing the one of the following functions: sum, average, count, min, max, len, if, vlookup

Sure, here are 10 Excel questions of easy difficulty based on the table with 50 rows:



1. What is the average asking price of all cars in the table?
2. What is the minimum price sold of all cars in the table?
3. How many cars were sold for more than \$50,000?
4. What is the maximum asking price for a Toyota car in the table?
5. What is the sum of the asking prices for all cars sold to customers in Canada?
6. What is the count of cars sold to customers in the USA?
7. What is the length of the customer name "John Smith" in the table?
8. What is the price sold for the car with the highest asking price?
9. How many cars were sold for more than their asking price?
10. What is the asking price for the car with the lowest price sold?



## 4. Next, let's ask it to generate us the answers with explanations.

can you provide me with an answer to the above questions

Certainly! Here are the answers to the 10 Excel questions of easy difficulty based on the table with 50 rows:



1. What is the average asking price of all cars in the table?

To get the average asking price of all cars in the table, use the ``AVERAGE`` function:

scss

Copy code

```
=AVERAGE(J2:J51)
```

The answer is \$44,800.

2. What is the minimum price sold of all cars in the table?

To get the minimum price sold of all cars in the table, use the ``MIN`` function:

scss

Copy code

```
=MIN(K2:K51)
```

The answer is \$16,000.

## 5. Next, let's ask it to generate us some questions requiring us to create charts

that is awesome! now let's generate 10 questions requiring users to generate some type of chart. The charts should be one of the following types: bar chart, line chart, pie chart, scatter plot, stacked bar chart

Sure, here are 10 questions that require users to generate a chart in Excel:



1. Create a bar chart to show the number of cars sold by each car make.
2. Create a line chart to show the asking price of all cars in the table over time.
3. Create a pie chart to show the distribution of cars sold by country.
4. Create a scatter plot to show the relationship between the asking price and price sold for all cars in the table.
5. Create a stacked bar chart to show the distribution of cars sold by customer name and car make.
6. Create a line chart to show the trend in the price sold for cars sold to customers in Canada over time.
7. Create a bar chart to show the number of cars sold to customers in each city.
8. Create a pie chart to show the distribution of car models sold by car make.
9. Create a stacked bar chart to show the distribution of cars sold by country and car make.

I then read the questions and make sure they make sense.

Ex: I didn't like Question 8 (would result in a messy graph) from the previous slide so I manually changed it.

I repeated the process generating more questions with increasing difficulty.

Just like that, I generated 100+ questions in under an hour for my student.

**SIGN UP TO MY  
NEWSLETTER ON  
MY PROFILE TO GET  
1 USE CASE EVERY  
WEEK**