## ✓ Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

GRADE 100%

# \*Weekly challenge 4\*

LATEST SUBMISSION GRADE 100%

1. In row 1 of the following spreadsheet, the words rank, name, population, and county are called what?

	А	В	С	D
1	Rank	Name	Population	County
2	1	Charlotte	885,708	Mecklenburg
3	2	Raleigh	474,069	Wake (seat), Durham
4	3	Greensboro	296,710	Guilford
5	4	Durham	278,993	Durham (seat), Wake, Orange
6	5	Winston-Salem	247,945	Forsyth
7	6	Fayetteville	211,657	Cumberland
8	7	Cary	170,282	Wake, Chatham
9	8	Wilmington	123,784	New Hanover
10	9	High Point	112,791	Guilford, Randolph, Davidson, Forsyth
11	10	Concord	96,341	Cabarrus

Descriptors

Attributes

Characteristics



 $These words \ are \ attributes, \ referring \ to \ the \ information \ in \ the \ columns \ below. \ An \ attribute \ is \ a \ characteristic$ or quality of data used to label a column in a table.

2. In the following spreadsheet, the observation of Greensboro describes all of the data in row 4.

	А	В	С	D
1	Rank	Name	Population	County
2	1	Charlotte	885,708	Mecklenburg
3	2	Raleigh	474,069	Wake (seat), Durham
4	3	Greensboro	296,710	Guilford
5	4	Durham	278,993	Durham (seat), Wake, Orange
6	5	Winston-Salem	247,945	Forsyth
7	6	Fayetteville	211,657	Cumberland
8	7	Cary	170,282	Wake, Chatham
9	8	Wilmington	123,784	New Hanover
10	9	High Point	112,791	Guilford, Randolph, Davidson, Forsyth
11	10	Concord	96,341	Cabarrus

True

○ False



The observation of Greensboro describes all of the data in row 4. An observation is all of the attributes for something contained in a row of a data table.

	А	В	С	D
1	Rank	Name	Population	County
2	7	Cary	170,282	Wake, Chatham
3	1	Charlotte	885,708	Mecklenburg
4	10	Concord	96,341	Cabarrus
5	4	Durham	278,993	Durham (seat), Wake, Orange
6	6	Fayetteville	211,657	Cumberland
7	3	Greensboro	296,710	Guilford
8	9	High Point	112,791	Guilford, Randolph, Davidson, Forsyth
9	2	Raleigh	474,069	Wake (seat), Durham
10	8	Wilmington	123,784	New Hanover
11	5	Winston-Salem	247,945	Forsyth

Sort range

O Name range

Organize range

Randomize range

#### ✓ Correct

Sort range was used to alphabetize the city names in column B. Sorting a range of data from A to Z helps data analysts organize and find data more quickly.

4. To find the average population of the cities in this spreadsheet, what is the correct AVERAGE function syntax?

1/1 point

	Α	В	С	D
1	Rank	Name	Population	County
2	1	Charlotte	885,708	Mecklenburg
3	2	Raleigh	474,069	Wake (seat), Durham
4	3	Greensboro	296,710	Guilford
5	4	Durham	278,993	Durham (seat), Wake, Orange
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10	9	High Point	112,791	Guilford, Randolph, Davidson, Forsyth
11	10	Concord	96,341	Cabarrus

=AVERAGE(C2:C11)

=AVERAGE(C2-C11)

AVERAGE(C2:C11)

AVERAGE(C2-C11)

#### ✓ Correct

The correct AVERAGE function syntax is =AVERAGE(C2:C11). AVERAGE returns an average of values from a selected range. C2:C11 is the specified range.

5. In the following query, what does FROM tell the database?

1/1 point



O From which field data should be updated

From which filter data should be selected

From which field data should be stored

From which table to select data

✓ Correct

In a query, data analysts use FROM to indicate the table from which the data will be retrieved.

6. You are writing a query that asks a database to retrieve data about the customer with identification number 1057. The column name for customer identification numbers is customer\_id. What is the correct SQL clause?

1/1 point

- WHERE customer\_id is 1057
- WHERE customer\_id = 1057
- WHERE\_customer\_id=1057
- WHERE customer\_id 1057

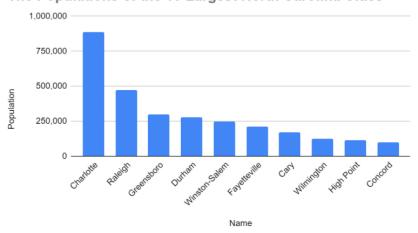


The correct WHERE clause syntax is WHERE customer\_id = 1057. WHERE is used to extract only those records that meet a specified criteria. customer\_id = 1057 tells the database to return only information about the customer whose ID is 1057.

7. A data analyst creates the following visualization to clearly demonstrate how much more populous Charlotte is than the next-largest North Carolina city, Raleigh. It's called a line chart.

1/1 point

# The Populations of the 10 Largest North Carolina Cities



○ True

False

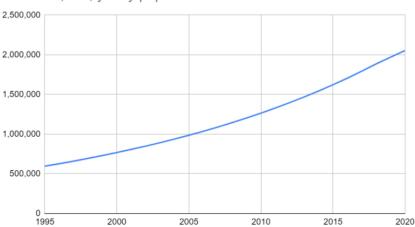
✓ Correct

This is a column chart. A column chart is effective at demonstrating the differences between several items in a specific range of values.

8. A data analyst wants to demonstrate how the population in Charlotte has increased over time. They create the chart below. What is this type of chart called?

1/1 point

## Charlotte, NC, yearly population increase 1995-2020



Area chart

Line chart

Bar chart

✓ Correct

This is a line chart. Line charts are effective for demonstrating trends and patterns, such as how population changes over time.