Congratulations! You passed!

Grade received 100% **To pass** 80% or higher

Go to next item

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?

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
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

0	Descri	ptors

Characteristics

Attributes

O Criteria

⊘ Correct

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.

 $\textbf{2.} \ \ \text{In the following spreadsheet, the observation of Greensboro describes all of the data in row 4.}$

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
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

\odot	True
---------	------

○ False

 \bigcirc Correct

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.

3. If a data analyst wants to list the cities in this spreadsheet alphabetically, instead of numerically, what feature can they use in column B?

1/1 point

	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

Sort range
○ Randomize range
Name range
Organize range
Correct Sort range would be 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. A data analyst types =POPULATION(C2:C11) to find the average population of the cities in this spreadsheet. However, they realize they used the wrong formula. What syntax will correct this function?

1/1 point

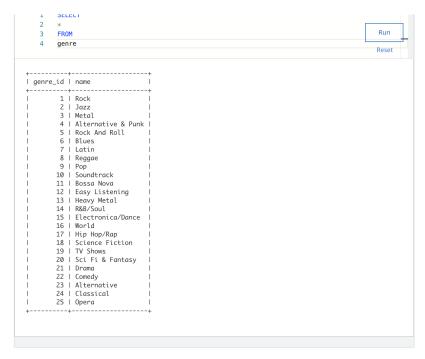
	А	В	С	D
1	Rank	Name	Population	County
2	1	Charlotte	885,708	Mecklenburg
3	2	Raleigh	474,069	Wake (seat), Durham
4	3	Greensboro	296,710	Guilford
5	4	Durham	278,993	Durham (seat), Wake, Orange
6	5	Winston-Salem	247,945	Forsyth
7	6	Fayetteville	211,657	Cumberland
8	7	Cary	170,282	Wake, Chatham
9	8	Wilmington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

=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. You are working with a database table named *genre* that contains data about music genres. You want to review all the columns in the table.

1/1 point

You write the SQL query below. Add a FROM clause that will retrieve the data from the *genre* table.



What is the name of the genre with ID number 3?



O Jazz

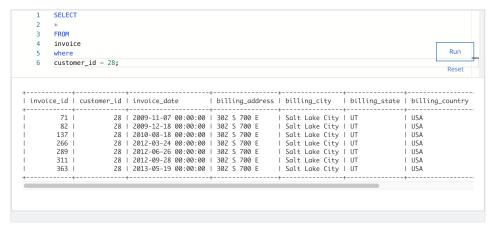
O Blues
O Rock

⊘ Correct

The clause FROM genre will retrieve the data from the genre table. The complete query is SELECT * FROM genre. The FROM clause specifies which database table to query. The name of the genre with ID number 3 is Metal.

6.You are working with a database table that contains invoice data. The *customer_id* column lists the ID number for each customer. You are interested in invoice data for the customer with ID number 28.

You write the SQL query below. Add a WHERE clause that will return only data about the customer with ID number 28.



What is the billing city for the customer with ID number 28?

Buenos Aires

Bangalore

O Dijon

Salt Lake City

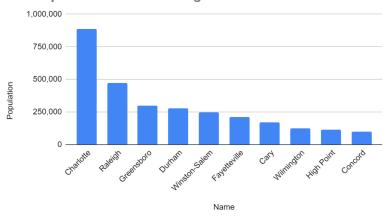
⊘ Correct

The clause where customer_id = 28 will return only data about the customer with ID number 28. The complete query is **SELECT * FROM invoice WHERE customer_id = 28**. The WHERE clause filters results that meet certain conditions. The WHERE clause includes the name of the column, an equals sign, and the value(s) in the column to include. The billing city for the customer with ID number 28 is Salt Lake City.

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

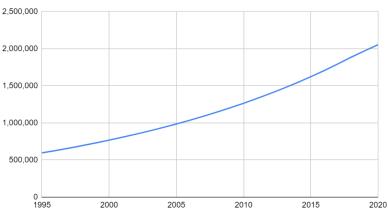
⊘ Correct

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



Bar chart

Oclumn chart

Area chart

Line chart

✓ Correct

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