



✓ **Congratulations! You passed!**
TO PASS 80% or higher

Keep Learning

GRADE
100%

Weekly challenge 4

LATEST SUBMISSION GRADE

100%

1. The column attributes for rank, name, population, and county are located in which row of the following spreadsheet?

1 / 1 point

	A	B	C	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	Gulford
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	Gulford, Randolph, Davidson, Forsyth
11	10	Concord	96,341	Cabarrus

- ☐ 10
- ☐ 2
- ☐ 11
- ☒ 1

✓ **Correct**

The column attributes for rank, name, population, and county are located in row 1. 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.

1 / 1 point

	A	B	C	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	Gulford
5	4	Durham	278,993	Durham (seat), Wake, Orange
6	5	Winston-Salem	247,945	Forsyth
7	6	Fayetteville	211,657	Cumberland
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10	9	High Point	112,791	Gulford, Randolph, Davidson, Forsyth
11	10	Concord	96,341	Cabarrus

- ☒ True
- ☐ False

✓ **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

	A	B	C	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	Gulford
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
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11	10	Concord	96,341	Cabarrus

- ☒ Sort range
- ☐ Name range
- ☐ Organize range
- ☐ Randomize 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 that have used the wrong formula. What syntax will correct this function?

1 / 1 point

	A	B	C	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
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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, FROM is telling the database to filter out data from the Orders table.

1 / 1 point

```
SELECT *
FROM Orders
```

- ☐ True
- ☒ False

✓ **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 244. The column name for customer identification numbers is customer_id. What is the correct SQL clause?

1 / 1 point

- ☐ WHERE customer_id is 244
- ☒ WHERE customer_id = 244
- ☐ WHERE_customer_id=244
- ☐ WHERE customer_id 244

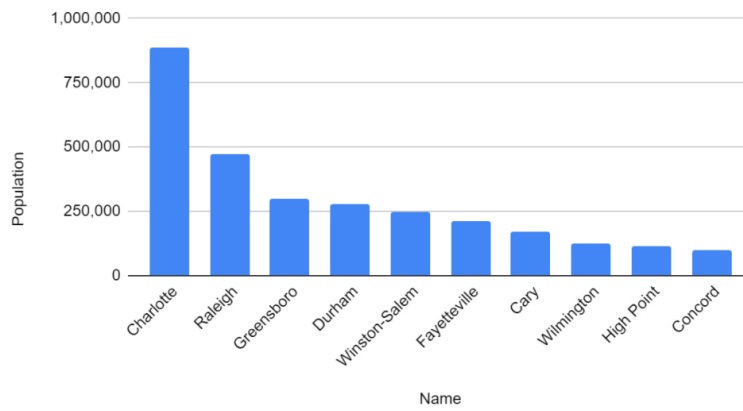
✓ **Correct**

The correct WHERE clause syntax is WHERE customer_id = 244. WHERE is used to extract only those records that meet a specified criteria. customer_id = 244 tells the database to return only information about the customer whose ID is 244.

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

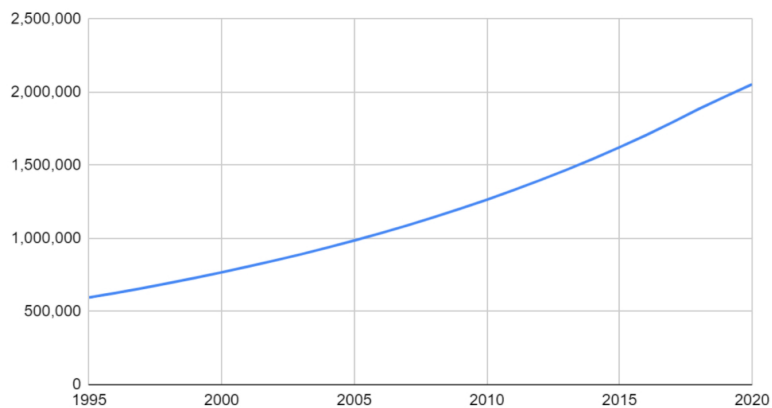
✓ **Correct**

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 this data visualization. This is an example of an area chart.

1 / 1 point

Charlotte, NC, yearly population increase 1995-2020



☐ True

☒ False

✓ **Correct**

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