

Mastering spreadsheet basics

Structured Query Language (SQL)

Data visualization

Weekly challenge 4*

Reading: Glossary: Terms and definitions

10 min

Quiz: Weekly challenge 4*

8 questions

Grade received 87.50%

Latest Submission received 87.50%

Attempts 3 (every 24 hours)

Go to next item

Submit your assignment

Rank Due Name Attempts Population County

1 1 Charlotte 885,708 Mecklenburg

2 Raleigh 474,069 Wake (seat), Durham

3 Greensboro 296,710 Guilford

4 Durham 278,993 Durham (seat), Wake, Orange

5 Winston-Salem 247,945 Forsyth

6 Fayetteville 211,657 Cumberland

7 Cary 170,282 Wake, Chatham

8 Wilmington 123,784 New Hanover

9 High Point 112,791 Guilford, Randolph, Davidson, Forsyth

10 Concord 96,341 Cabarrus

1 / 1 point

Try again

Your grade 87.50%

View Feedback

We keep your highest score

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

Rank

Name

Population

County

1

Charlotte

885,708

Mecklenburg

2

Raleigh

474,069

Wake (seat), Durham

3

Greensboro

296,710

Guilford

4

Durham

278,993

Durham (seat), Wake, Orange

5

Winston-Salem

247,945

Forsyth

6

Fayetteville

211,657

Cumberland

7

Cary

170,282

Wake, Chatham

8

Wilmington

123,784

New Hanover

9

High Point

112,791

Guilford, Randolph, Davidson, Forsyth

10

Concord

96,341

Cabarrus

Characteristics

Descriptors

Criteria

Attributes

Correct

2. Fill in the blank: In row 8 of the following spreadsheet, you can find the ____ of Cary.

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

observation

dataset

criteria

format

Incorrect

Review the video on columns, rows, and cells.

3. Fill in the blank: In the following spreadsheet, the feature sort range can be used to _____ the city names in column B?

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

delete

change

alphabetize

randomize

Correct

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?

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

5.You are working with a database table named *employee* that contains data about employees. You want to review all the columns in the table.

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

1 SELECT *

2 FROM employee

Run

Reset

What is the job title of Andrew Adams?

Sales Manager

General Manager

IT Manager

Sales Support Agent

Correct

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 54.

You write the SQL query below. Add a WHERE clause that will return only data about the customer with ID number 54.

1 SELECT *

2 *

3 FROM

4 invoice

5 WHERE customer_id = 54

6

Run

Reset

After you run your query, use the slider to view all the data presented.

What is the billing address for the customer with ID number 54?

230 Elgin St

1033 N Park Ave

801 W 4th St

110 Raeburn Pl

Correct

The clause **WHERE customer_id = 54** will return only data about the customer with ID number 54. The complete query is **SELECT * FROM invoice WHERE customer_id = 54**. 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 address for the customer with ID number 54 is 110 Raeburn Pl.

7. A data analyst wants to create a visualization that depicts the populations of the top ten most populous cities in North Carolina. What type of chart would be best for this?

A pie chart

A line chart

A column, or bar, chart

A scatter chart

Correct

8. Fill in the blank: A data analyst has to demonstrate how the population in a city has increased over time. In particular, they want to be able to see when the population has exceeded certain thresholds. The chart that would work best for this is a/an ____ chart.

area

bar

column

line

Correct