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Weekly challenge 3

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1. In data analytics, what is data aggregation?

1 / 1 point

- ⦿ The process of gathering data from multiple sources and combining it into a single, summarized collection.
- ○ The process of modifying data in order to make it suitable for analysis.
- ○ The process of ensuring a company's data is properly stored, managed, and maintained.
- ○ The process of moving certain data points to a higher rank or position.

✓ **Correct**
Data aggregation is the process of gathering data from multiple sources and combining it into a single, summarized collection.

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2. A data analyst uses the SUM function to add together numbers from a spreadsheet. However, after getting a zero result, they realize the numbers are actually text. What function can they use to convert the text to a numeric value?

1 / 1 point

- ○ DIGIT
- ⦿ VALUE
- ○ CONVERT
- ○ FIGURE

✓ **Correct**
The analyst can use the VALUE function to convert the text that represents a number to a numeric value.

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3. When using VLOOKUP, there are some common limitations that data analysts should be aware of. One of these limitations is that VLOOKUP only returns the first match it finds, even if there are many possible matches within the column.

1 / 1 point

- ⦿ True
- ○ False

✓ **Correct**
One limitation of VLOOKUP is that it only returns the first match it finds, even if there are many possible matches within the column.

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4. Fill in the blank: When writing a function, a data analyst wraps a table array in dollar signs. This is an _____ , which is used to lock the array so rows and columns don't change if the function is copied.

1 / 1 point

- ⦿ absolute reference
- ○ authentic reference
- ○ accurate reference
- ○ arbitrary reference

✓ **Correct**
Wrapping a table array in dollar signs creates an absolute reference, which locks the array so rows and columns don't change if the function is copied.

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5. The following is a selection from a spreadsheet:

1 / 1 point

	A	B	C
1	**Country**	**Population in 2020 (millions)**	**Growth in population 2000-2020**
2	China	1,439,323,776	13.4 %
3	India	1,380,004,385	37.1 %
4	United States	331,002,651	17.3 %

5	Indonesia	273,523,615	27.7%
6	Pakistan	220,892,340	44.9%
7	Brazil	212,559,417	21.9%
8	Nigeria	206,139,589	66.3%
9	Bangladesh	164,689,383	27.9%
10	Russia	145,934,462	-0.8%

To search for the population of Pakistan, what is the correct VLOOKUP syntax?

○ =VLOOKUP("Pakistan", A2:B10, 3, false)

○ =VLOOKUP(Pakistan, A2:B10, 3, false)

◉ =VLOOKUP("Pakistan", A2:B10, 2, false)

○ =VLOOKUP(Pakistan, A2*B10, 2, false)

✓ **Correct**

To search for the population of Pakistan, the syntax is =VLOOKUP("Pakistan", A2:B10, 2, false). "Pakistan" is the reference. A2:B10 is the table array. The 2 indicates the number of the column from which the value should be returned. And the word false instructs the function to return an exact match.

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6. When creating a SQL query, which JOIN clause returns only records with matching values in two or more database tables? `1 / 1 point`

◉ INNER

○ OUTER

○ LEFT

○ RIGHT

✓ **Correct**

The INNER JOIN clause returns only records with matching values in two or more database tables.

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7. A data analyst writes a query that asks a database to return only distinct values in a specified range, rather than including repeating values. Which function do they use? `1 / 1 point`

○ COUNT

○ RETURN

○ RETURN VALUES

◉ COUNT DISTINCT

✓ **Correct**

When writing SQL queries, an analyst can use the COUNT DISTINCT function to return only distinct values in a range.

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8. Which of the following terms describe a subquery? Select all that apply. `1 / 1 point`

☐ Small query

☑ Nested query

✓ **Correct**
A subquery can also be called an inner query, inner select, or nested query.

☑ Inner query

✓ **Correct**
A subquery can also be called an inner query, inner select, or nested query.

☑ Inner select

✓ **Correct**
A subquery can also be called an inner query, inner select, or nested query.