**Weekly challenge 3**

### 1.

Question 1 In data analytics, what is data aggregation?

**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.

### 2.The VALUE function converts a numeric value into a text string in a spreadsheet.

True

**False**

**Correct**

The VALUE function converts a text string that represents a number into a numeric value.

### 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.

**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.

### 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.

**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.

### 5.The following is a selection from a spreadsheet:

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 Brazil, what is the correct VLOOKUP syntax?

=VLOOKUP(Brazil, A2:B10, 2, false)

**=VLOOKUP("Brazil", A2:B10, 2, false)**

=VLOOKUP(Brazil, A2:B10, 3, false)

=VLOOKUP(Brazil, A2,B10, 3, false)

**Correct**

To search for the population of Brazil, the syntax is =VLOOKUP("Brazil", A2:B10, 2, false). “Brazil” 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.

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

RIGHT

LEFT

OUTER

**INNER**

**Correct**

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

### 7.

A data analyst writes a query that asks a database to return the number of rows in a specified range. Which function do they use?

RANGE

**COUNT**

RETURN RANGE

COUNT DISTINCT

**Correct**

When writing SQL queries, an analyst can use the COUNT function to return the number of rows in a specified range.

### 8.Which of the following terms describe a subquery? Select all that apply.

**Inner query**

**Inner select**

~~Small query~~

**Nested query**