

Keep Learning

GRADE 87.50%

## Weekly challenge 4

LATEST SUBMISSION GRA	ADE
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8	7.5%	
1.	A data analyst is working with a spreadsheet from a furniture company. To use the template for this spreadsheet, click the link below and select "Use Template."  Link to template: Sample Transaction Table	1/1 point
	Or, if you don't have a Google account, download the file directly from the attachment below.	
	Sample Transaction Table - transactional-data-format-csv.csv	
	The analyst inputs a function to find the number of product prices that are less than \$150.00. Which formula will return that result?	
	=SUMIF(G2:G30, "<150")	
	=SUMIF(G2:G30, ">150")	
	● =COUNTIF(G2:G30, "<150")	
	=COUNTIF(G2:G30, ">=150")	
	✓ Correct  The COUNTIF formula =COUNTIF(G2:G30, "<150") will allow the analyst to count all product price values in Column G that are less than \$150.	
2.	You are working in a spreadsheet and uses the SUMIF function in the formula below as part of your analysis.	1/1 point
	=SUMIF(A1:A25, "<10", C1:C25)	
	Which part of this formula is the criteria or condition?	
	=SUMIF	
	C1:C25	
	(a) "<10"	
	( ) A1:A25	
	✓ Correct  The criteria or condition for this SUMIF formula is "<10". This means that if any values in the range A1 through A25 are less than 10, their corresponding values in the range C1 through C25 will be added together.	
3.	The following is a formula with the SUMPRODUCT function:	1 / 1 point
	=SUMPRODUCT(A2:A10,B2:B10).	
	It will add the values from the first range (A2:A10) to the values from the second range (B2:B10). Then, the sums will be multiplied.	
	○ True	
	False	
	✓ Correct  The formula will multiply the first range of values (A2:A10) by the second range of values (B2:B10). Then, the products will be added together.	
4.	You create a pivot table in a spreadsheet containing movie data. To use the template for this spreadsheet, click the link below and select "Use Template."	0 / 1 point
	Link to template: Mayie Data Project	

Or, if you don't have a Google account, download the file directly from the attachment below.

Movie Data Starter Project.xlsx

If you want to find out how many movies there are in each genre, which function in the Values menu would you use to summarize the data? O SUM O MAX O COUNTA COUNT X Incorrect Review the spreadsheet and the section on pivot tables for a refresher. 5. A data analyst uses the following query to perform basic calculations on their data. The variables in the query have the 1 / 1 point following values:  $yes_responses = 10$ ,  $no_responses = 12$ , total surveys = 22. What is the value of the Responses\_Per\_Survey variable? **SELECT** Yes\_Responses, No\_Responses, Total\_Surveys, (Yes\_Responses + No\_Responses) / Total\_Surveys AS Responses\_Per\_Survey FROM Survey\_1 O 11 O 22 1 O 44 ✓ Correct  $The \ value \ of the \ Responses\_Per\_Survey \ variable \ is \ 1. \ In \ this \ query, \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ the \ sum \ of \ the \ analyst \ first \ calculates \ first \ cal$ 

6.You are working with a database table that contains data about music. The table includes columns for track\_id, track\_name, composer, 1/1 point and album\_id. You are only interested in data about the classical musician Johann Sebastian Bach. You want to create new album IDs. You decide to multiply the current album IDs by 10 to create new album IDs, and use the AS command to store them in a new column

Add a statement to your SQL query that calculates a new album Id for each track and stores it in a new column as new\_album\_id.

NOTE: The three dots (...) indicate where to add the statement.

"yes" and "no" responses, then divides the sum by the total surveys.



What is the new album ID for the track with Id number 3490?

✓ Correct

You add the statement album\_id \* 10 As new\_album\_id to calculate a new album ID for each track and store it in a new column as new\_album\_id. The complete query is select track\_id, track\_name,

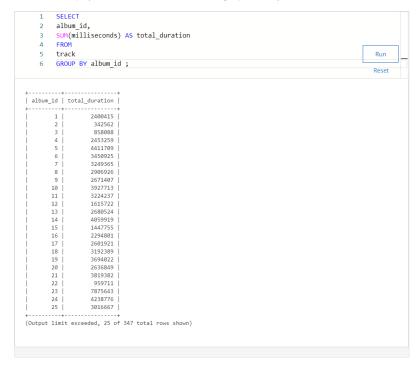
composer, album\_id, album\_id \* 10 As new\_album\_id FROM track WHERE composer = "Johann Sebastian Bach". The AS command gives a temporary name to the new column.

The new Album Id for the track with Id number 3490 is 3350.

7. You are working with a database table that contains data about music. The table includes columns for *album\_id* and *milliseconds* (duration of the music tracks on each album). You want to find out the total duration for each album in milliseconds, and store the result in a new column named *total\_duration*.

1 / 1 point

You write the SQL query below. Add a GROUP BY clause that will group the data by album Id number.



What is the total duration of the album with Id number 2?

- 959711
- 257252
- 858088
- 342562



You add the clause <code>GROUP BY album\_id</code> to group the data by album Id number. The complete query is <code>SELECT album\_id</code>, <code>SUM(milliseconds)</code> AS total\_duration <code>FROM tracks GROUP BY album\_id</code>. The GROUP BY command groups rows that have the same values from a table into summary rows. GROUP BY is always placed as the last command in a <code>SELECT-FROM-WHERE</code> query.

The total duration of the album with ID number 2 is 342562 milliseconds.

8. You are working with a database table that contains invoice data. The table includes columns for *billing\_country* and *total*. You want to know the average total price for the invoices billed to the country of India. You decide to use the AVG function to find the average total, and use the AS command to store the result in a new column called *average\_total*.

1/1 point

 $Add\ a\ statement\ to\ your\ SQL\ query\ that\ calculates\ the\ average\ total\ and\ stores\ it\ in\ a\ new\ column\ as\ average\_total.$ 

NOTE: The three dots (...) indicate where to add the statement.

```
1 SELECT
2 billing_country,
3 AVG(total) AS average_total
4 FROM
5 invoice
6 WHERE
7 billing_country = "India"

Reset

| billing_country | average_total |
| India | 5.78 |
```

What is the average total for India?

O 5.64

6.025.37

5.78

## ✓ Correct

You add the statement AVG(total) AS average\_total to calculate the average total and store it in a new column as average\_total. The complete query is SELECT billing\_country, AVG(total) AS average\_total FROM invoice WHERE billing\_country = "India". The AVG function is an aggregate function that returns the average value of a group of values. The AS command gives a temporary name to the new column.

The average total for India is 5.78.