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ZUM BESTEHEN 80 % oder höher

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BEWERTUNG
80 %

Weekly challenge 4

NEUESTE EINREICHUNGSBEWERTUNG

80%

1. You are using a dataset in a spreadsheet from an advertising firm. Stakeholders have asked you to find the cost that an advertiser would pay for different types of ads. Which function should you use to find the highest cost for an ad?

1 / 1 Punkten

- ☐ SUM
- ☐ AVERAGE
- ☐ MIN
- ☒ MAX

✓ **Richtig**

You should use the MAX function to find the highest cost for an ad. The MAX function returns the largest numeric value from a range of cells.

2. A data analyst is working with a spreadsheet from a furniture company. Click the link to create a copy of the spreadsheet: [Sample Transaction Table](#).

1 / 1 Punkten

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

Sample Transaction Table - transactional-data-format-csv.csv

The syntax of which of the following formulas would allow the analyst to count purchase sizes of two or more?

- ☐ =COUNTIF(G2:G30, ">=2")
- ☐ =SUMIF(H2:H30, "<=4")
- ☒ =COUNTIF(H2:H30, ">=2")
- ☐ =SUMIF(G2:G30, "<=1")

✓ **Richtig**

The COUNTIF formula =COUNTIF(H2:H30, ">=2") has a condition that would allow the analyst to count all purchase size values in Column H that are two or more. The condition is greater than or equal to 2 (">=2"), so this calculation would return a count of "8" because there are 8 values in Column H that are greater than or equal to 1.

3. A data analyst is working in a spreadsheet and uses the SUMIF function in the formula below as part of their analysis.

1 / 1 Punkten

=SUMIF(A1:A25, "<10", C1:C25)

Which part of this formula is the criteria or condition?

- ☒ "<10"
- ☐ C1:C25
- ☐ A1:A25
- ☐ =SUMIF

✓ **Richtig**

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.

4. A data analyst is working in a spreadsheet and uses the SUMPRODUCT function in the formula below as part of their analysis.

1 / 1 Punkten

=SUMPRODUCT(A2:A10,B2:B10)

How does the SUMPRODUCT function calculate the cell ranges identified in the parentheses?

- ☐ It adds the values in the first range, then adds the values in the second range.
- ☐ It multiplies the values in the first range, then multiplies the values in the second range .
- ☒ It multiplies the ranges, then adds the sum of the products of the two ranges.
- ☐ It adds the ranges, then multiplies them by the last value in the second array.

✓ **Richtig**

=SUMPRODUCT(A2:A10,B2:B10) calculates the cell ranges by multiplying each value in the first range by its corresponding value in the second range (the results are the products). Then, the formula adds those products together.

5. A data analyst creates a pivot table in a spreadsheet containing movie data.

0 / 1 Punkten

You may click the link to create a copy of the dataset: [Movie Data Project](#).

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

Movie Data Starter Project.xlsx

If the analyst wants to figure out how much box office revenue each genre earned, which function in the Values menu would they use to summarize the data?

- ☒ COUNTA
- ☐ SUM
- ☐ PRODUCT

☐ AVERAGE

! Falsch

Review the spreadsheet and the section on pivot tables for a refresher.

6. A data analyst uses the following SQL query to perform basic calculations on their data. Which types of operators is the analyst using in this SQL query? Select all that apply.

1 / 1 Punkten

```
SELECT
Yes_Responses,
No_Responses,
Total_Surveys,
(Yes_Responses + No_Responses) / Total_Surveys AS Responses_Per_Survey
FROM
Survey_1
```

☒ Addition

✓ Richtig

The analyst is using the addition operator (+) in this SQL query to calculate the sum of "yes" and "no" responses.

☐ Subtraction

☒ Division

✓ Richtig

The analyst is using the division operator (/) in this SQL query to divide the sum of "yes" and "no" responses by the total number of surveys.

☐ Multiplication

7. In the following SQL query, what calculation does the percent sign (%) perform?

0 / 1 Punkten

```
SELECT
Total_Inventory % Total_Stores AS Overstock
FROM
Shipment_1
```

- ☐ Calculates the remainder when the values in "Total_Inventory" are divided by the values in "Total_Stores"
- ☐ Calculates the total when the values in "Total_Inventory" are divided by the values in "Total_Stores"
- ☐ Calculates the percentage of the "Total_Stores" that have inventory items listed in "Total_Inventory"
- ☒ Calculates the difference between the values in "Total_Inventory" and the values in "Total_Stores"

! Falsch

Review the section on calculations in SQL for a refresher.

8. A data analyst uses the following SQL query to complete a calculation. How should the analyst name the value that this calculation will return?

1 / 1 Punkten

```
SELECT
AVG(salary)
AS "_____"
FROM
employees
```

- ☒ Average_Employee_Salary
- ☐ Total_Employee_Salary
- ☐ Employee_ID
- ☐ Number_of_Employees

✓ Richtig

The analyst should name this column "Average_Employee_Salary" to name the value that this calculation will return. The AVG function is an aggregate function that returns the average value of a group. In this query, the group is "salary."

9. A data analyst uses a GROUP BY statement in a SQL query to aggregate data about visitors to a website. Which of the following queries shows the correct placement of the GROUP BY command?

1 / 1 Punkten

☐

```
GROUP BY
id
SELECT
id,
SUM(visits) AS total_visits
FROM
customers
WHERE
country = 'India'
```

☐

```
SELECT
id,
SUM(visits) AS total_visits
GROUP BY
id
FROM
customers
WHERE
country = 'India'
```

☐

```
SELECT
  id,
  SUM(visits) AS total_visits
FROM
  customers
GROUP BY
  id
WHERE
  country = 'India'
```

☒

```
SELECT
  id,
  SUM(visits) AS total_visits
FROM
  customers
WHERE
  country = 'India'
GROUP BY
  id
```

✓ Richtig

This query shows the correct placement of the GROUP BY command. The GROUP BY command groups rows that have the same values from a table into summary rows. It is always placed as the last command in a SELECT-FROM-WHERE query.

10. Fill in the blank: The data validation process involves checking and rechecking the quality of your data to make sure that it is complete and _____. Select all that apply. 1 / 1 Punkten

☐ cited

☒ secure

✓ Richtig

Data validation involves checking and rechecking the quality of your data to make sure it is complete, accurate, secure, and consistent.

☒ consistent

✓ Richtig

Data validation involves checking and rechecking the quality of your data to make sure it is complete, accurate, secure, and consistent.

☒ accurate

✓ Richtig

Data validation involves checking and rechecking the quality of your data to make sure it is complete, accurate, secure, and consistent.