✓ **Herzlichen Glückwunsch! Sie haben bestanden!**
ZUM BESTEHEN 80 % oder höher

Lernen Sie weiter

BEWERTUNG
97,50 %

Course challenge

NEUESTE EINREICHUNGSBEWERTUNG
97.5%

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1. **Scenario 1, questions 1-5**   `1 / 1 Punkten`

   You've been working at a data analytics consulting company for the past six months. Your team helps restaurants use their data to better understand customer preferences and identify opportunities to become more profitable.

   To do this, your team analyzes customer feedback to improve restaurant performance. You use data to help restaurants make better staffing decisions and drive customer loyalty. Your analysis can even track the number of times a customer requests a new dish or ingredient in order to revise restaurant menus.

   Currently, you're working with a vegetarian sandwich restaurant called Garden. The owner wants to make food deliveries more efficient and profitable. To accomplish this goal, your team will use delivery data to better understand when orders leave Garden, when they get to the customer, and overall customer satisfaction with the orders.

   Before project kickoff, you attend a discovery session with the vice president of customer experience at Garden. He shares information to help your team better understand the business and project objectives. As a follow-up, he sends you an email with datasets.

   Click below to read the email:

   📄 **C3 Scenario 1_Client Email .pdf**   ⧉
       PDF-Datei

   And click below to access the datasets:

Course 3 Final Challenge Data Sets - Customer survey data (1).csv
Course 3 Final Challenge Data Sets - Delivery times_distance (1).csv

   Reviewing the data enables you to describe how you will use it to achieve your client's goals. First, you notice that all of the data is first-party data. What does this mean?

   ○ It's a type of data that's categorized without a set order.

   ◉ It's data that was collected by Garden employees using their own resources.

   ○ It's subjective data that measures qualities and characteristics.

   ○ It's data that was collected from outside sources.

   > ✓ **Richtig**
   > First-party data is data collected by an individual or group using their own resources.

2. **Scenario 1 continued**   `1 / 1 Punkten`

   Next, you review the customer satisfaction survey data:

   You may click the link to create a copy of the dataset: Customer Satisfaction Survey data.

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

CustomerSurveyData - Customer survey data.csv

   The question in column E asks, "Was your order accurate? Please respond yes or no." The responses listed in column E are an example of Boolean data.

   ◉ True

   ○ False

   > ✓ **Richtig**
   > A Boolean data type has only two possible values, such as yes or no.

3. **Scenario 1 continued**   `1 / 1 Punkten`

   Now, you review the data on delivery times and the distance of customers from the restaurant:

   You may click the link to create a copy of the dataset: Delivery Times/Distance

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

DeliveryTimes_DistanceData - Delivery times_distance.csv

   The data in column E shows the duration of each delivery. What type of data is this? Select all that apply.

   ☑ Discrete data

   > ✓ **Richtig**
   > This is an example of discrete data, which is counted and has a limited number of values, and quantitative data, which is specific and measures numerical facts.

   ☐ Continuous data

   ☐ Qualitative data

   ☑ Quantitative data

   > ✓ **Richtig**
   > This is an example of discrete data, which is counted and has a limited number of values. It is also quantitative

data, which is specific and measures numerical facts.

4. **Scenario 1 continued** `1 / 1 Punkten`

The next thing you review is the file containing pictures of sandwich deliveries over a period of 30 days. **This is unstructured data, which means what?**

- ⦿ It's not organized in an easily identifiable manner.
- ◯ It's collected by a group directly from its audience and then sold.
- ◯ It's organized in a certain format.
- ◯ It's objective and measures facts.

> ✓ **Richtig**
> Unstructured data is not organized in an easily identifiable manner.

5. **Scenario 1 continued** `1 / 1 Punkten`

Now that you're familiar with the data, you want to build trust with the team at Garden.

What data-security measures do you employ? Select all that apply.

- ☐ Change their file naming conventions
- ☐ Make personal copies of client files
- ☑ Assign user permissions for files

> ✓ **Richtig**
> Building trust can be achieved by showing a client that you will keep client data safe by using passwords and user permissions.

- ☑ Add passwords to files

> ✓ **Richtig**
> Building trust can be achieved by showing a client that you will keep client data safe by using passwords and user permissions.

6. **Scenario 2, questions 6-10** `0,75 / 1 Punkten`

You've completed this program and are interviewing for a junior data scientist position at a company called Sewati Financial Services.

Click below to review the job description:

> 📄 **C3 Course Challenge Junior Data Scientist Job Description .pdf**
> PDF-Datei ⧉

So far, you've successfully completed the first interview with a recruiter. They arrange your second interview with the team at Sewati Financial Services.

Click below to read the email from the human resources director:

> 📄 **Course 3 Scenario 2_Second Interview Email.pdf**
> PDF-Datei ⧉

You arrive 15 minutes early for your interview. Soon, you are escorted into a conference room, where you meet Kai Harvey, the senior manager of strategy. After welcoming you, he begins the behavioral interview.

Consider and respond to the following question. Select all that apply.

Our data analytics team often surveys clients to get their feedback. If you were on the team, how would you ensure the sample is representative of the population as a whole?

- ☐ Only include participants who can answer survey questions in a timely manner.
- ☐ Include clients with disabilities in the survey sample.
- ☑ Make sure the sample is chosen at random.

> ✓ **Richtig**
> Choosing participants at random, including people with disabilities, and including people of all genders help ensure a survey sample represents the population as a whole.

- ☑ Use a randomized sample of the population that includes all genders.

> ✓ **Richtig**
> Choosing participants at random, including people with disabilities, and including people of all genders help ensure a survey sample represents the population as a whole.

> Sie haben nicht alle korrekten Antworten ausgewählt.

7. **Scenario 2 continued** `1 / 1 Punkten`

Consider and respond to the following question. Select all that apply.

Our data analytics team often uses both internal and external data. Describe the difference between the two.

- ☑ Internal data is typically generated from within the company. External data is generated outside the organization.

> ✓ **Richtig**
> Internal data lives within a company's own systems and is typically generated from within the company. External data lives in and is generated outside the organization.

- ☑ Internal data lives within a company's own systems. External data lives outside the organization.

✓ **Richtig**
Internal data lives within a company's own systems and is typically generated from within the company. External data lives in and is generated outside the organization.

☐ External data lives within a company's own systems. Internal data lives outside the organization.

☐ External data is typically generated from within the company. Internal data is generated outside the organization.

8. **Scenario 2 continued** `1 / 1 Punkten`

Consider and respond to the following question. Select all that apply.

Our analysts often work with the same spreadsheet, but for different purposes. How would you use sorting to help in this situation?

☑ Sort the data to arrange data in a meaningful order

✓ **Richtig**
Sorting data enables data analysts on the same team to use the same dataset for different purposes.

☐ Sort data to highlight the header row.

☐ Sort data to show only the data that meets a specific criteria while hiding the rest

☑ Sort data to make it easier to understand, analyze and visualize

✓ **Richtig**
Sorting data enables data analysts on the same team to use the same dataset for different purposes.

9. **Scenario 2 continued** `1 / 1 Punkten`

Next, your interviewer wants to better understand your knowledge of basic SQL commands. **He asks: How would you write a query that retrieves only data about people with the last name Hassan from the Clients table in our database?**

○
```sql
SELECT DATA
FROM Clients
WHERE 'Hassan'
```

◉
```sql
SELECT *
FROM Clients
WHERE Last_Name='Hassan'
```

○
```sql
SELECT Clients
WHERE Last_Name='Hassan'
FROM *
```

○
```sql
SELECT ALL
WHERE Last_Name 'Hassan'
FROM Clients
```

✓ **Richtig**
To write a query that retrieves only data about people with the last name Hassan from the Clients table, type SELECT * FROM Clients WHERE Last_Name='Hassan'.

10. **Scenario 2 continued** `1 / 1 Punkten`

For your final question, your interviewer explains that Sewati Financial Services needs its clients' trust, and this is an important responsibility for the data analytics team.

He asks you to identify which data analytics practice involves preserving a data subject's information and activity any time a data transaction occurs.

○ Encryption

○ Sharing permissions

◉ Data privacy

○ Bias

✓ **Richtig**
Data privacy involves preserving a data subject's information and activity any time a data transaction occurs.