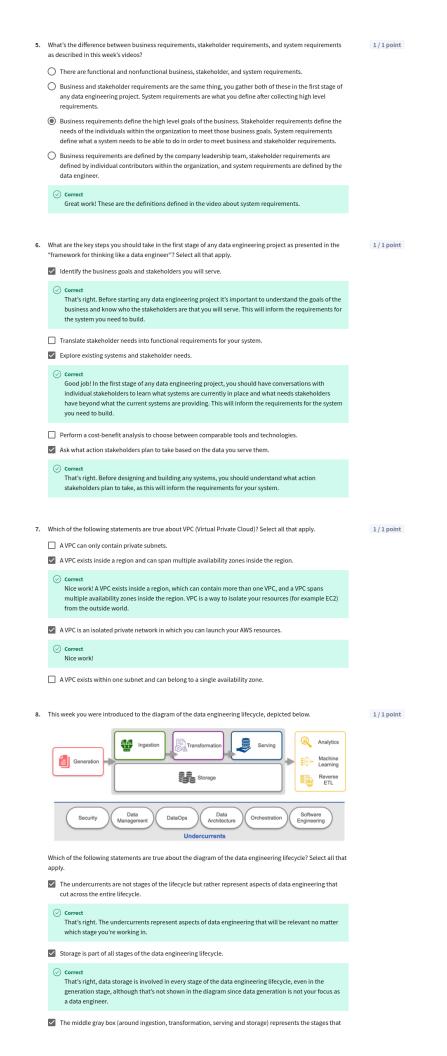
Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 80%. We keep your highest score.

Next item ightarrow

that	t are the key elements of any requirements gathering conversation as discussed in the videos? Select all apply.	1/1po
~	Learn what existing data systems or solutions are already in place.	
⊘	Correct That's right, it's important to first understand any existing systems or solutions before starting your work to modify or replace them. This was described as one of the key elements of requirements gathering in the "Translate Stakeholder Needs into Specific Requirements [2" video	
✓	Learn what problems or pain points there are with existing systems.	
0	Correct Yes, this is important because your stakeholder's pain points with any existing systems will be important to consider when designing a new system. This was described as one of the key elements of requirements gathering in the "Translate Stakeholder Needs into Specific Requirements "L" video	
~	Learn what action stakeholders plan to take based on the data you serve them.	
⊘	Correct Indeed, this is critical because stakeholders may describe their needs using phrases like "real-time" but only when you understand the action they plan to take can you start to translate their needs into actual system requirements. This was described as one of the key elements of requirements gathering in the "Translate Stakeholder Needs into Specific Requirements C" video	
~	dentify any additional stakeholders you will need to talk to.	
⊘	Correct That's right. Oftentimes stakeholder conversations will lead you to discover there are others you need to talk to as well. This was described as one of the key elements of requirements gathering in the " Translate Stakeholder Needs into Specific Requirements [2"] video	
_	th of the following best describes data engineering as defined in this course?	1/1po
-	Data engineering is the development, implementation, and maintenance of systems and processes that take in raw data and produce high-quality, consistent information that supports downstream use cases, such as analysis and machine learning.	
0	Data engineering is about setting up storage systems to store raw data from different sources before serving it to its end-users.	
0	Data engineering is focused on deriving insights from data that can add value for the business	
	Data engineering is about using tools and technologies to build data pipelines that move data through the stages of the data engineering lifecycle.	
⊘	Correct Nice job! The complete definition as stated in this course and in the book also included a second sentence mentioning the undercurrents of the data engineering lifecycle: "Data engineering is the intersection of security, data management, DataOps, data architecture, orchestration, and software engineering."	
Wha	t is the difference between a region and an availability zone on the AWS cloud?	1/1po
0	An availability zone spreads across multiple regions and each region contains one or more data centers.	
	A data center consists of multiple regions and each region consists of multiple availability zones.	
	A data center consists of multiple availability zones and an availability zone is spread across multiple regions.	
•	A region consists of multiple availability zones and an availability zone contains one or more data centers.	
⊘	Correct Each AWS region contains at least 3 isolated and physically separated availability zones. Each availability zone contains a group of one or more discrete data centers with redundant power, networking and physical security.	
_	th of the following statements are correct about virtual servers? Select all that apply.	1/1po
	Multiple virtual servers can share the same underlying physical resources, which helps achieve efficient and cost-effective use of resources.	
0	Correct Nice work! The benefit of this virtualization is that you can create more than one virtual machine that shares the same underlying physical resources.	
~	An Amazon Elastic Compute Cloud or EC2 instance is a virtual server in the AWS Cloud	
⊘	Correct Nice work!	
	A virtual server is an actual physical server that is hosted on the cloud and to which you can connect to virtually through the internet.	
	A virtual server is a software representation or emulation of an actual physical server.	
~		



will be the focus of your work as a data engineer.

Correct
Nice work! These are the stages that are the focus of your work as a data engineer.

Analytics, machine learning, and reverse ETL represent the final stage of the data engineering lifecycle.

1/1 point
You work as a data engineer at a financial institution. You were tasked with building a pipeline to serve data for the data science team of the "clients services" department. You learned that the data scientists are interested in predicting customer churn, or in other words, being able to predict whether a given customer is likely to stop doing huspes with the bank. You me this the data scientist who had you that the field like you

for the data science team of the "Clients services" department. You learned that the data scientists are interested in predicting customer churn, or in other words, being able to predict whether a given customer is likely to stop doing business with the bank. You met with the data scientists who told you that they'd like you to provide them with historical information about active and inactive customers, such as their past transactions, credit information, and account information. The data scientists will then analyze this data and build a churn prediction model. You learned that the information requested by the data scientists exists in several databases maintained by software engineers from different bank departments.

Identify the upstream and downstream stakeholders.

- The downstream stakeholders are both the data scientists and the software engineers that maintain the source databases. The upstream stakeholders are the bank clients.
- The upstream stakeholders are the software engineers that maintain the source databases and the downstream stakeholders are the data scientists of the "rlient services" denartment.
- O The downstream stakeholders are the software engineers that maintain the source databases and the upstream stakeholders are the data scientists of the "client services" department.

⊘ Correct

Good job! Upstream stakeholders represent the stakeholders that create and/or maintain the source systems you will ingest data from. Downstream stakeholders are the end-users to whom you're serving the data.

10. Which of the following statements best describes the AWS "shared responsibility model"?

1/1 point

- a WS is responsible for the security of the cloud and you are responsible for security in the cloud.
- AWS is responsible for security behind the scenes in cloud systems and you are responsible for the security of any public facing components of your systems.
- AWS is responsible for security in the cloud and you are responsible for the security of the cloud.
- Openeding on the resources and services you choose to build your systems, AWS will be responsible for the security of some of them and you will be responsible for the security of others.

✓ Correct

That's right, and this means that the security of the infrastructure and services that make up the cloud is AWS's responsibility and the security of the systems you build on the cloud is your responsibility.