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Grade received 88.89% To pass 80% or higher

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1.	Tabular data that is represented by rows and columns in a database is referred to as? Semi-structured data Structured data Unstructured data	1/1 point
	○ Correct Structured data is typically tabular data that is represented by rows and columns in a database.	
2.	True or False? A key-value store is similar to a relational table except that each row can have any number of columns. True False	1/1 point
	 Correct A key-value store is similar to a relational table, except that each row can have any number of columns. 	
3.	Unstructured Data can be made up of which of the following? Select all options that apply. Tables Binary data	1/1 point
	Correct Not all data is structured or even semi-structured. For example, audio and video files, and binary data files might not have a specific structure. They're referred to as unstructured data.	
	☑ Images	
	○ Correct Not all data is structured or even semi-structured. For example, audio and video files, and binary data files might not have a specific structure. They're referred to as unstructured data.	
	✓ Video files	
	○ Correct Not all data is structured or even semi-structured. For example, audio and video files, and binary data files might not have a specific structure. They're referred to as unstructured data.	
4.	Structured data is typically stored in which of the following?	1/1 point
	○ Azure Cosmos DB	
	Azure Blob storage	
	 SQL Server or Azure SQL Database Correct Structured data is typically stored in a relational database such as SQL Server or Azure SQL Database. 	
5.	True or False? The process of splitting data into a large number of narrow, well-defined tables with references from one table	1/1 point
	to another is referred to as normalization? True	

0	Correct The result of the normalization process is that your data is split into a large number of narrow, well-defined tables (a narrow table is a table with few columns), with references from one table to another
	nsaction is defined as a sequence of operations that are atomic and the transactional database must

6. At adhere to the ACID properties. In this context, what does ACID stands for? Select all options that apply. Durability **⊘** Correct Atomicity guarantees that each transaction is treated as a single unit, which either succeeds completely, or fails completely. Consistency ensures that a transaction can only take the data in the database from one valid state to another. Isolation ensures that concurrent execution of transactions leaves the database in the same state that would have been obtained if the transactions were executed sequentially. Durability guarantees that once a transaction has been committed, it will remain committed even if there's a system failure such as a power outage or crash. Autonomous Independence Consistency **⊘** Correct Atomicity guarantees that each transaction is treated as a single unit, which either succeeds completely, or fails completely. Consistency ensures that a transaction can only take the data in the database from one valid state to Isolation ensures that concurrent execution of transactions leaves the database in the same state that would have been obtained if the transactions were executed sequentially. Durability guarantees that once a transaction has been committed, it will remain committed even if there's a system failure such as a power outage or crash. ✓ Atomicity **⊘** Correct Atomicity guarantees that each transaction is treated as a single unit, which either succeeds completely or fails completely. Consistency ensures that a transaction can only take the data in the database from one valid state to another. Isolation ensures that concurrent execution of transactions leaves the database in the same state that would have been obtained if the transactions were executed sequentially. Durability guarantees that once a transaction has been committed, it will remain committed even if there's a system failure such as a power outage or crash. Domain ✓ Isolation **⊘** Correct Atomicity guarantees that each transaction is treated as a single unit, which either succeeds completely or fails completely. Consistency ensures that a transaction can only take the data in the database from one valid state to another. Isolation ensures that concurrent execution of transactions leaves the database in the same state that would have been obtained if the transactions were executed sequentially.

7. Which of the following are advantages of Batch Processing?

there's a system failure such as a power outage or crash.

Large volumes of data can be processed at a convenient time.

Correct

Select all options that apply.

Concurrency

Advantages of batch processing include: Large volumes of data can be processed at a convenient time. It can be scheduled to run at a time when computers or systems might otherwise be idle, such as overnight. or during off-peak hours.

Durability guarantees that once a transaction has been committed, it will remain committed even if

1/1 point

1/1 point

	It can be scheduled to run at a time when computers or systems might otherwise be idle.
	○ Correct Advantages of batch processing include: Large volumes of data can be processed at a convenient time. It can be scheduled to run at a time when computers or systems might otherwise be idle, such as overnight, or during off-peak hours.
	☐ It allows for the analysis of data in real-time,
3.	True or False? Batch processing is suitable for handling large datasets efficiently while Stream processing is intended for individual records or micro-batches consisting of few records.
	● True
	○ False
	⊙ Correct Batch processing is suitable for handling large datasets efficiently. Stream processing is intended for individual records or micro-batches consisting of few records.
١.	Which of the following is an example of a streaming dataset?
	Sales data for the past month.
	O Data from sensors and devices.
	List of employees working for a company.
	Incorrect Historical Data would generally be input through individual transactions or as part of a Batch process.

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