Final Quiz

1.	In the modern data ecosystem, what is one of the key challenges when stakeholders pull data from the enterprise data repository?	1/1 point
	Establishing that the compiled data scales at a sufficient rate	
	Checking that all the raw data resides in a centralized repository	
	Guaranteeing that the organizational scheme complies with security standards	
	Ensuring that the method of data access meets stakeholder needs	
	∠ [™] Expand	
	Correct When stakeholders pull data from the enterprise data repository, one of the key challenges is ensuring that the method of data access meets stakeholder needs.	
2.	. In the data ecosystem, what are data analysts responsible for?	1/1 point
	Converting raw data from disparate sources into usable data	
	Providing business solutions based on insights and predictions	
	Creating predictive models based on the data	
	Using the data to generate insights and identify patterns	
	∠ ⁷ Expand	
	Orrect Data analysts use the collected data to generate insights.	
	Which of the following data sources contain semi-structured data?	1/1 point
	○ Tweets	
	○ Sensors	
	○ Spreadsheets	
	Emails	
	∠ [≯] Expand	
	⊙ Correct	
	An email contains semi-structured data. An email has some structured data, such as the name of the sender and recipient, but it also has unstructured data, specifically the contents of the email.	

4	SQL is ideal for which of the following tasks?	1/1 point
	Accessing information from relational databases	
	Creating mobile and desktop web applications quickly	
	Developing statistical software and performing data analytics	
	Automating repetitive tasks that are time-consuming to execute one line at a time	
	∠ ² Expand	
	 Correct SQL is a querying language designed for accessing and manipulating information mostly, but not exclusively, from relational databases. 	
5.	What is the primary advantage of using NoSQL databases?	1/1 point
	Ability to handle large volumes of structured, semi-structured, and unstructured data	
	Ease of use for export and import options, simplifying backup and restore	
	Compliance with principles of atomicity, consistency, isolation, and durability (ACID)	
	Maturity of the technology with extensive documentation and support	
	∠ ^ス Expand	
	 Correct The primary advantage of NoSQL is its ability to handle large volumes of structured, semi-structured, and unstructured data. 	
6.	What is the function of a data integration platform?	1/1 point
	Locate specific data within a repository and display this data	
	Extract raw data, transform the data, then load it into a repository	
	Combine disparate sources of data into a unified view of the data	
	Move data from its source to a destination data lake or application	
	∠ ⁷ Expand	
	Correct Data integration platforms combine disparate sources of data, physically or logically, to provide a unified view of the data for analytics purposes.	

7. In a data platform architecture, the data collection, or ingestion, layer performs which of the following tasks?	1/1 point
Maintains metadata	
Supports querying tools	
○ Transforms data	
O Delivers processed data	
∠ ⁷ Expand	
Correct The data collection, or ingestion, layer uses the metadata repository to maintain information about the data collected.	
8. When using SQL, for what purpose should you use the STDDEV function?	1/1 point
Measuring how spread out the values are in a data set	
Calculating the rank of values in a data set	
Otelermining the first and last values in a data set	
Returning a subset of specific values in a data set	
_κ [∞] Expand	
Correct Use the STDDEV() function to measure how spread out the numbers are in a data set. This function calculates the standard deviation.	
9. What role does an authentication system play in ensuring compliance with data governance regulations?	1/1 point
Verifies that users are who they say they are	
Converts user session data to an encoded format	
Ensures data access only for users who are authorized	
Provides audit reports on which users access which data	
∠ [™] Expand	
Correct Authentication systems verify that you are who you say you are, and they accomplish this using passwords, tokens, biometrics, or a combin of these.	nation

10. Which of the following is a mainstay for your career in data engineering?	
Professional certifications from respected online programs	
Broad understanding of the scope and use of data in business	
Master's degree in computer science or engineering	
∠ ⁿ Expand	
 Correct You can start a career in data engineering through various paths. However, your technical abilities will be your mainstay in this profession, along 	

with a broad understanding of the scope and use of data in business.