Back Final Quiz
Graded Quiz • 50 min

Congratulations! You passed! Go to Retake the assignment in 23h next Grade **Latest Submission** To pass 70% or item received 90% Grade 90% higher 1. In the modern data ecosystem, what is one of the key challenges when stakeholders pull data from the enterprise 1/1 point data repository? Checking that all the raw data resides in a centralized repository Ensuring that the method of data access meets stakeholder needs Guaranteeing that the organizational scheme complies with security standards Establishing that the compiled data scales at a sufficient rate 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 scientists responsible for? 1/1 point Using the data to generate insights and identify patterns Creating predictive models based on the data Onverting raw data from disparate sources into usable data Providing business solutions based on insights and predictions Expand **⊘** Correct Data scientists analyze data for actionable insights and build machine learning or deep learning models that train on past data to create predictive models. 3. Which of the following data sources contain structured data? 1/1 point Sensors Tweets Spreadsheets Emails Expand **⊘** Correct Spreadsheets are an example of structured data since data within a spreadsheet has a well-defined structure that can be represented in a tabular manner with rows and columns. 4. R is ideal for which of the following tasks? 1/1 point Developing statistical software and performing data analytics Automating repetitive tasks that are time-consuming to execute one line at a time Accessing information from relational databases Creating mobile and desktop web applications quickly Expand **⊘** Correct Widely used for developing statistical software and performing data analytics, R is especially known for its ability to create compelling visualizations, giving it an edge over some of the other languages that data professionals use. 5. Which of the following is an advantage of using relational databases? 0 / 1 point Easy backup and disaster recovery Data redundancy across tables Optimization for low-cost hardware Unlimited length of data fields Expand **⊗** Incorrect Refer to the RDBMS video. 6. What is the relationship between data pipelines and data integration? 1/1 point A data pipeline is a process used to perform data integration. Data integration is a process used to create a data pipeline. A data pipeline is a subprocess within data integration. Data integration is a process that functions separately from the data pipeline. Expand **⊘** Correct A data pipeline is a process used to perform data integration, while ETL is a process within data integration. 7. In a data platform architecture, the data collection, or ingestion, layer performs which of the following tasks? 1/1 point Transforms data Maintains metadata Delivers processed data Supports querying tools 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 Returning a subset of specific values in a data set Determining the first and last values in a data set Calculating the rank of values in a data set Measuring how spread out the values are in a data set 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 data erasure software play in ensuring compliance with data governance regulations? 1/1 point Edits data Overwrites data Updates data O Deletes data Expand **⊘** Correct Data erasure software overwrites the data, permanently clearing the data from the system. This method for discarding data is preferable to simply deleting the data since you can still retrieve deleted data. 10. Which of the following is a mainstay for your career in data engineering? 1/1 point Broad understanding of the scope and use of data in business Professional certifications from respected online programs Extensive experience in public speaking and delivering presentations Master's degree in computer science or engineering 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.