Skills Measured

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1. Describe core data concepts (25–30%)
- Describe ways to represent data
  • Describe features of structured data
  • Describe features of semi-structured data
  • Describe features of unstructured data
- Identify options for data storage
  • Describe common formats for data files
  • Describe types of databases
- Describe common data workloads
  • Describe features of transactional workloads
  • Describe features of analytical workloads
- Identify roles and responsibilities for data workloads
  • Describe responsibilities for database administrators
  • Describe responsibilities for data engineers
  • Describe responsibilities for data analysts

2. Identify considerations for relational data on Azure (20–25%)
- Describe relational concepts
  • Identify features of relational data
  • Describe normalization and why it's used
  • Identify common SQL statements
  • Identify common database objects
- Describe relational Azure data services
  • Describe the Azure SQL family: Azure SQL Database, Azure SQL Managed Instance, SQL Server on Azu
  • Identify Azure database services for open-source systems

3. Describe considerations for working with non-relational data on Azure (15–20%)
- Describe capabilities of Azure storage
  • Describe Azure Blob Storage
  • Describe Azure File Storage
  • Describe Azure Table Storage
- Describe capabilities and features of Azure Cosmos DB
  • Identify use cases for Azure Cosmos DB
  • Describe Azure Cosmos DB APIs

4. Describe an analytics workload (25–30%)
- Describe common elements of large-scale analytics
  • Describe considerations for data ingestion and processing
  • Describe options for analytical data stores
  • Describe Microsoft cloud services for large-scale analytics, including Azure Databricks and Microsoft Fab
- Describe considerations for real-time data analytics
  • Describe the difference between batch and streaming data
  • Identify Microsoft cloud services for real-time analytics
- Describe data visualization in Microsoft Power BI
  • Identify capabilities of Power BI
  • Describe features of data models in Power BI
  • Identify appropriate visualizations for data