DP-900: Microsoft Azure Data Fundamentals

From 29 April 2022

	Describe core data concepts (25–30%)
	Describe ways to represent data
1	Describe features of structured data
2	Describe features of semi-structured
3	Describe features of unstructured data
	Identify options for data storage
4	Describe common formats for data files
5	Describe types of databases
	Describe common data workloads
6	Describe features of transactional workloads
7	Describe features of analytical workloads
	Identify roles and responsibilities for data workloads
8	Describe responsibilities for database administrators
9	Describe responsibilities for data engineers
10	Describe responsibilities for data analysts
	Identify considerations for relational data on Azure (20–25%)
	Describe relational concepts
11	Identify features of relational data
12	Describe normalization and why it is used
13	Identify common structured query language (SQL) statements
14	Identify common database objects
	Describe relational Azure data services
15	Describe the Azure SQL family of products including Azure SQL Database, Azure SQL Managed Instance, and SQL Server on Azure Virtual Machines
16	Identify Azure database services for open-source database systems
	Describe considerations for working with non-relational data on Azure
	Describe capabilities of Azure storage
17	Describe Azure Blob storage
18	Describe Azure File storage
19	Describe Azure Table storage
	Describe capabilities and features of Azure Cosmos DB
20	Identify use cases for Azure Cosmos DB
21	Describe Azure Cosmos DB APIs

	Describe an analytics workload on Azure (25–30%)
	[Until 3 August] Describe common elements of a modern data warehouse [From 4 August] Describe common elements of large-scale analytics
22	Describe considerations for data ingestion and processing
23	Describe options for analytical data stores
24	Describe Azure services for data warehousing, including Azure Synapse Analytics, Azure Databricks, Azure HDInsight, and Azure Data Factory
	Describe consideration for real-time data analytics
25	Describe the difference between batch and streaming data
26	Describe technologies for real-time analytics including Azure Stream Analytics, Azure Synapse Data Explorer, and Spark structured streaming
	Describe data visualization in Microsoft Power BI
27	Identify capabilities of Power BI
28	Describe features of data models in Power BI
29	Identify appropriate visualizations for data