

Microsoft Azure Data Fundamental



Online Course

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Microsoft Azure Data Fundamental

Course Modules



1. Describe core data concepts

Describe ways to represent data

- Describe features of structured data
- Describe features of semi-structured
- 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

Describe relational concepts

- Identify features of relational data
- Describe normalization and why it is used
- Identify common structured query language (SQL) statements
- Identify common database objects



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Describe relational Azure data services

- Describe the Azure SQL family of products
- Azure database services for open-source database systems

3. consider for work with non-relational data on Azure

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 on Azure

Describe common elements of large-scale analytics

- Describe considerations for data ingestion and processing
- Describe options for analytical data stores
- Describe Azure services for data warehousing

Describe consideration 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

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in terms of time management,
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