Azure Data Fundamentals (DP-900)

Core Concepts

- Describe ways to represent the data
- Identify options for data storage
- Describe common data workloads
- Identify roles and responsibilities for data workloads

Relational Database Concepts

- Identify features of relational data
- Describe normalization and why it's used
- Three Normal Forms
- Demo : A Sample Database
- Identify common structured query (SQL) statements
- Demo: Create a Database View
- Demo: Create a Stored Procedure
- Demo: Create an Index

Describe Relational Azure Data Services

- Introduction to Relational DBs
- Azure Relational DB Options

Manage Relational Databases

- Create an Azure SQL Database
- Use ARM Templates to manage SQL Databases
- SQL Database Security
- Relational Query Tools
- Structured Query Language (SQL)

Azure Storage Options

- Create a Unmanaged Storage Account
- Azure Blob Storage
- Azure File Storage
- Azure Table Storage

Non-Relational Database Concepts

- Introduction to Non-Relational DBs
- Non-Relational Data types
- Choose a NoSQL Database
- Azure Non-Relational DB Options

Manage Non-Relational Databases
- o Create Cosmos DB
- o Query Cosmos DB
- o Use ARM Templates to manage Cosmos DB
- o Cosmos DB Security
- o Cosmos DB Geo-Replication

Data Analytics Workload
- o OLTP
- o OLAP
- o Synapse Analytics SQL Data Warehouse
- o Modern Data Warehouse

Data Ingestion and Processing
- o Azure Data Factory

Data Visualization
- o Power BI Content Workflow