



DP 900 Microsoft Azure Data Fundamentals

Description:

To get ready for other Azure role-based certifications like Azure Database Administrator Associate or Azure Data Engineer Associate, take the DP-900: Azure Data Fundamentals exam. Candidates who are just starting to work with cloud data are the target audience for this exam.

Start Date:

Doubt Clear Time:

Course Time:

Features:

Course material

Course resources

On demand recorded videos

Practical exercises

Quizzes

Assignments

Course completion certificate

What we learn:

Data Concepts

Azure Synapse and Data Lake

Account Storage

Power BI

Relational Databases

MS SQL SERVER

Database Security

Azure Tables Cosmos DB

Hadoop Systems

Azure and Databricks

ELT and SQL Tools

Demos

Requirements:

System with Internet Connection

Interest to learn

Dedication

Instructor:

Name:

MD Imran

Description:

Working as Data Scientist with experience in solving real world business problems across different domains.

>Data Concepts:

- >>Introduction to DP 900

- >>Sample Questions

- >>Azure Core Data Related Services

- >>Types of Cloud Computing

- >>Azure Data Related Roles

- >>Database Administrator Common tools

- >>Data Engineering Common tools

- >>Data Analyst Common tools

- >>Data Overview

- >>Introduction to Data

- >>Data documents

- >>Data sets

- >>Data Types

- >>Schema vs Schemaless

- >>Query and Querying

- >>Batch vs Stream processing

- >>Relational data

- >>Relational data Relationships

- >>Row store vs Column store

- >>Database Index

- >>Data Integrity vs Data Corruption
- >>Normalized vs Denomralized data
- >>Pivot table
- >>Strongly consistent vs Eventually consistent
- >>Synchronus vs Asynchronous
- >>Non relational data
- >>Data source
- >>Data store
- >>Database
- >>Data warehouse
- >>Data mart
- >>Data lakes
- >>Data lakehouse
- >>Data structures
- >>Unstructured data
- >>Semi structured
- >>Semi structured Data Structures
- >>Semi structure JSON
- >>semi structure ORC
- >>semi structure Parquets
- >>semi structure AVRO
- >>Structured Data
- >>Data mining
- >>Data mining methods

- >>Data wrangling
- >>Data modeling
- >>ETL vs ELT
- >>Data analytics
- >>Key performance indicators KPI
- >>Data Analytic Techniques
- >>Microsoft One Drive
- >>Microsoft Sharepoint

>Azure Synapse and Data Lake:

- >>Azure Synapse Analytics
- >>Synapse SQL and pools
- >>Synapse Key Features
- >>Azure Data Lake Gen 2
- >>Polybase
- >>Synapse ELT
- >>Azure Data Lake Analytics

>Account Storage:

- >>Azure Blob Storage
- >>Azure Files

>Power BI:

- >>Business Intelligence

- >>Power BI

- >>Power BI Visualizations

- >>Power BI Embedded

- >>Power BI Interactive Reports

- >>Power BI Service and Dashboards

- >>Reports vs Dashboards

- >>Paginated Reports

>Relational Databases:

- >>Structured Query Language

- >>OLAP vs OLAP

- >>Open Source Relational Databases

- >>Read Replicas

- >>Citrus Postgres Hyperscale

- >>Azure SQL Family

- >>Elastic pools

>MS SQL SERVER:

- >>What is DBMS

- >>Types of DBMS

- >>What is SQL

- >>What is SQL Server

- >>Features of SQL Server

- >>sql server installation

- >>SQL Server Architecture
- >>SQL Server Command Categories
- >>SQL Server Data Types
- >>DDL Commands
- >>Keys in Database
- >>Constraints in Database
- >>DML Commands
- >>Operators
- >>Nested Queries
- >>Joins
- >>Stored Procedure in sql server part 1
- >>Stored Procedure in sql server part 2
- >>Stored Procedure in sql server part 3
- >>Creating and executing stored procedures with output parameters part 1
- >>Creating and executing stored procedures with output parameters part 2
- >>Advantages of stored procedure
- >>DCL Commands
- >>TCL Commands
- >>Exception Handling
- >>Difference between sql and T sql
- >>Database Security:**

- >>Connectivity Architecture
- >>Database Authentication

- >>Network Connectivity
- >>Azure Defender for SQL
- >>Azure Database Server Firewalls
- >>Always Encrypted
- >>Role Based Access Controls
- >>Transparent Data Encryption
- >>Dynamic Data Masking
- >>Private Links

>Azure Tables Cosmos DB:

- >>Key Value Store
- >>Document Store
- >>Mongo DB
- >>Graph Database
- >>Apache Tinkerpop and Gremlin
- >>Azure Tables
- >>Azure Cosmos DB
- >>Azure Table Account Storage vs Cosmos DB

>Hadoop Systems:

- >>Apache Hadoop
- >>Apache Kafka
- >>HDInsights

>Azure and Databricks:

>>Spark Basics

>>Why spark is difficult

>>Why databricks in cloud

>>How to save databricks demo cost

>ELT and SQL Tools:

>>SQL Server Management Studio

>>SQL Server Data Tools

>>Azure Data Studio

>>Azure Data Factory

>>SQL Server Integration Services

>Demos:

>>Install and Use Power BI

>>Launch Azure SQL and Use Data Studio part 1

>>Launch Azure SQL and Use Data Studio part 2

>>Use Azure SQL as data source in Power BI

>>Use SSMS to perform a query on Azure SQL