

Microsoft Certified: Azure Data Fundamentals (DP-900)

This Microsoft Azure Data Fundamentals DP-900 training covers how to use Microsoft Azure data services to work with cloud-based data, whether relational or non-relational, in different workloads. This Data Fundamentals training prepares you for Microsoft's Azure Data Fundamentals certification by explaining relational and non-relational data, different data workloads and the core concepts of data in the cloud.

[CBT Nuggets course material](#) →

WEEK 1

Describe Types of Core Data Workloads

152 min.

Describe Types of Core Data Workloads	1
Understanding Relational Data	9
Understanding NoSQL Data	8
Relational Data vs. NoSQL	8
Processing Batch Data	7
Processing Streaming Data	6
Data Storage and Processing in The Cloud	8

Describe Relational Azure Data Services

Overview	1
Describe Relational Azure Data Services	2
Comparing IaaS, PaaS, and SaaS	10
Understanding Azure SQL Database	8
SQL Server on Azure Virtual Machines	6
Azure SQL Managed Instance	5
Azure Database MySQL, MariaDB, and PostgreSQL	7
Azure Synapse Analytics	8
Review Relational Azure Data Services	3

Describe Relational Data Workloads

Overview	1
Describe Relational Data Workloads	2
Recognizing the Right Workloads for Relational DBs	8
Understanding Tables and Fields	8
Understanding Queries and Views	7
Indexing Tables	6
Using DDL and DML	6

Querying Azure's Relational DBs	9
Relational Data Workloads	2

Describe Data Analytics Core Concepts

Overview	1
Describe Data Analytics Core Concepts	2

WEEK 2

156 min.

Describing Data Visualization	7
Charting and Graphing	7
Advanced Charting	5
Analytics Techniques	8
OLTP vs OLAP Databases	7
Moving Data with ETL and ELT	10
Describe Data Analytics Core Concepts Summary	1

Identify Basic Management Tasks for Relational Data

Overview	1
Supplemental File	1
Provisioning and Deploying Relational Azure Services	9
Deploying Azure SQL Database	12
Deploying an Azure PostgreSQL Database	11
Azure SQL Querying Tools	10
Deploying with Resource Manager	7
Cleaning up Azure Deployments	2

Structured Query Language (SQL) Introduction

Overview	1
Structured Query Language (SQL) Introduction	6
Retrieving Data with Select	7
Adding Data with Insert	8
Change and Remove Data with Update and Delete	7
Filtering Data With the Where Clause	7
Literals and Wildcards	7
Combine Multiple Tables with Join	6
Creating Tables with DDL	7

WEEK 3

156 min.

SQL Introduction Summary	2
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Describe Non-Relational Data Workloads

Overview	1
Non-Relational Data Workloads	2
Recognizing Non-Relational Data Workloads	8
Comparing IaaS, PaaS, and SaaS	6
Non-Relational Data Structures	12
Azure Cosmos DB	7
Azure Storage Tables	8
Azure Storage Blobs, Files, and Disks	9

Identify Basic Management Tasks for Non-Relational Data

Overview	1
Provisioning and Deploying Non-Relational Azure Services	4
Deploying an Azure Cosmos DB	11

Understanding Cosmos Consistency	9
Deploying Azure Storage Accounts	13
Securing and Accessing Non-Relational Data	14

Big Data Components of Azure

Overview	1
Understanding Azure Data Lake	12
Understanding Azure Synapse Analytics	10
Understanding Databricks and HDInsight	6
Understanding Azure Data Factory	10
Architecting Data Solutions	7

WEEK 4

Describe Data Visualization in Microsoft Power BI 49 min.

Overview	1
Describe Data Visualization in PowerBI	5
Building a Paginated Report	8
Understanding PowerBI Dashboards	8
Data Viz in PowerBI	10
Transforming Data with Power Query	13
Describe Data Visualization in PowerBI Summary	2