

Azure Business Intelligence Consultant Training

1. SQL Server
 - Design and development of databases and data warehouses, including the creation of data mart structures, SQL coding, and performance tuning.
2. Azure Introduction
 - Introduction to Cloud Computing
 - Azure Core Services
 - Azure Networking
 - Azure Storage
 - Understanding Cloud Concepts
 - Azure Core Services
 - Understand Security, Privacy, Compliance and Trust
 - Understanding Azure Pricing
3. Non-Relational Data Stores and Azure Data Lake Storage
 - Document data stores
 - Columnar data stores
 - Key/value data stores
 - Graph data stores
 - Time series data stores
 - Object data stores
 - External index
 - Why NoSQL or Non-Relational DB?
 - When to Choose NoSQL or Non-Relational DB?
 - Best Uses
 - Scenarios
 - Azure Data Lake Storage
 - Definition
 - Azure Data Lake-Key Components
 - How it stores data?
 - Azure Data Lake Storage Gen2
 - Why Data Lake?
 - Data Lake Architecture
 - Assignments in Unit 1
4. Data Lake and Azure Cosmos DB
 - Data Lake Key Concepts
 - Azure Cosmos DB

- Why Azure Cosmos DB?
- Azure Blob Storage
- Why Azure Blob Storage?
- Data Partitioning
- Horizontal partitioning
- Vertical partitioning
- Functional partitioning
- Why Partitioning Data
- Consistency Levels in AzureCosmos DB
- Semantics of the five-consistency level
- Hands-on:
 - Load Data fromAmazonS3 to ADLS Gen2 with Data Factory
 - Working with Azure Cosmos DB
 - Assignments in Unit 2

5. Relational Data Stores

- Introduction to Relational Data Stores
- Azure SQL Database
- Deployment Models
- Service Tiers
- Hands-on: Create a Single Database Using Azure Portal
- Hands-on: Create a managed instance
- Hands-on: Create an elastic pool
- Why SQL Database Elastic Pool?
- Hands-on: Create a SQL virtual machine
- Hands-on: Configure active geo-replication for Azure SQL Database in the Azure portal and initiate failover.
- Assignments in Unit 3

6. Azure Data Factory

- Flow Process of Data Factory
- Why Azure Data Factory
- Integration Runtime in Azure Data Factory
- Azure data factory Pipelines.
- Copy data in cloud
- Copy on-premises data to cloud
- Copy data in bulk
- Copy data incrementally
- Load ADLS Gen2
- Load SQL DW

- Load SAP BW
- Assignments in Unit Data Factory Pipelines.
- Azure Data Factory Dataflows
 - Data transformation
- What are mapping data flows?
 - Create data flow
- Data flow expression language
 - Debug data flow
- Execute data flow activity inside pipeline
 - Monitor data flow
 - Data flow performance

7. Azure Data Bricks

- What is Azure Databricks?
- Azure Spark-based Analytics Platform
- Apache Spark in Azure Databricks
- Hands-on: Run a Spark Job on Azure Databricks using the Azure portal
- Hands-on: ETL Operation by using Azure Databricks
- Hands-on: Stream data into Azure Databricks using Event Hubs

8. Azure Stream Analytics

- Working of Stream Analytics
- Key capabilities and benefits
- Hands-on: Analyse phone call data with stream analytics and visualize results in Power BI dashboard
- Stream Analytics Windowing Functions
 - Tumbling window
 - Hopping Window
 - Sliding Window
 - Session Window

9. Monitoring & Security

- What is Azure Monitor?
- Metrics
- Logs
- Metrics Vs Logs
- What data does Azure Monitor collect?
- What can you Monitor?
- Insights and Core Solutions
- Alerts in Azure
 - Flow of Alerts

- Key Attributes of an Alert Rule
 - What can you set alert on?
 - Manage alerts
 - Alert States
 - How to create an alert?
 - Hands-on: Create, View, and Manage Metric alerts using Azure Monitor
 - Hands-on: Monitor your Azure Data Factory Pipelines proactively with Alerts
 - Azure Security Logging & Auditing
 - Types of Logs in Azure
 - Azure SQL Database Auditing
 - Server-level vs. Database-level Auditing Policy
 - Hands-on: Azure SQL Database Auditing
10. Introducing Power BI
- Creation of Report
 - Publishing to CLOUD
 - DAX Introduction
 - Basic Calculation using DAX
 - Measures on Category AXIS
 - DATA Transformations
 - Designing a DASHBOARD
 - Advanced VISUALIZATIONS
 - Advanced Features of POWER BI CLOUD SERVICE
 - Advanced Features of POWER BI DESKTOP CLIENT
 - POWER BI PROJECT 1
 - POWER BI PROJECT 2
 - DATA Types
 - Logical Functions
 - Error Handling
 - Context
 - Context Interactions
 - Context over Relations
 - SCHEMA Relations
 - Table Functions
 - Time Intelligence Functions
 - Rankings
 - GATEWAY and Schedule Refresh
 - SANDDANCE and PERCENTILE



- Row Level Security
- POWERBI QUIZ

Project 1 - Financial Data loading using Azure Data Factory from On premise source system to AZURE SQL DB Data Warehouse.

Project 2 - Purchasing, Inventory, Production data Data loading using Azure Data Factory from On premise source system to AZURE SQL DB Data Warehouse.



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