

Azure Data Factory

Table of Content

Module No-1: Introduction to Data Warehouse

- Lesson 1: Overview of Data Warehousing
- Lesson 2: Consideration for Data Warehouse Solution
- Lab- Exploring a Data Warehousing Solution

Module No-2: Planning Data Warehouse Infrastructure

- Lesson 1: Difference between On-Prem and On-Cloud
- Lesson 2: Resources that can help to calculate Compute and Storage
- Lab- How to use Azure Calculator for Planning Infrastructure

Module No-3: Designing and Implementing a Warehouse

- Lesson 1. Data Warehouse Design Overview
- Lesson 2. Designing Dimension Tables
- Lesson 3. Designing Fact Tables
- Lesson 4. Physical Design for a Data Warehouse
- Lab- Implementing a Data Warehouse

Module No-4: Columnstore Indexes

- Lesson 1. Introduction to Columnstore Indexes
- Lesson 2. Creating Columnstore Indexes
- Lesson 3. Working with Columnstore Indexes
- Lab-- Using Columnstore Indexes

Module No-5: Implementing an Azure SQL Data Warehouse

- Lesson 1. Advantages of Azure Sql Data Warehouse
- Lesson 2. Implementing an Azure SQL Data Warehouse Database

- Lesson 3. Developing an Azure SQL Data Warehouse
- Lesson 4. Migrating to an Azure SQL Data Warehouse
- Lesson 5. Copying Data with the Azure Data Factory
- Lab- Implement an Azure SQL Data Warehouse

Module No-6: Creation and Setup Azure Data Factory

- Lesson 1. Overview of Azure Data Factory
- Lesson 2. Explain the data factory process and Components
- Lesson 3. Setup Azure Data Factory
- Lab- Setup Azure Data Factory on Microsoft Azure Cloud

Module No-7: Creation of Azure Data Factory Components

- Lesson 1. Create linked Services
- Lesson 2. Create the Datasets
- Lesson 3. Create Activities and Pipelines
- Lesson 4. Manage Integration Runtime
- Lab- Practical demo for all the components

Module No-8: Learn with Examples Part-1

- Lesson 1. Copy Data Tool
- Lesson 2. Copy Activity in Pipeline
- Lesson 3. Copy Data from on-prem to the cloud
- Lesson 4. Incremental SQL DB single table
- Lesson 5. Incremental SQL DB multiple tables

Module No-9: Learn with Examples Part-2

- Lesson 1. Copy from SQL DB to Synapse SQL Pools
- Lesson 2. Bulk Copy Multiple Tables
- Lesson 3. Code-Free Data Transformation at Scale
- Lesson 4. Azure Databricks notebook Activity
- Lesson 5. Control Flow in Azure Data Factory

Module No-10: Consume Data from Data Warehouse

Lesson 1. Introduction to Business Intelligence

Lesson 2. Introduction to Data Analysis

Lesson 3. Introduction to Reporting