DP-203: Data Engineering in Microsoft Azure, Part 7 of 7: Optimize and Design Azure Data Solutions

Meet the expert: Eshant Garg has 16 years of extensive professional experience with expertise in Database and Business Intelligence Solutions, Advanced Analytics, Design and Solution Architect, Reporting, and Cloud Computing Technologies (Azure & AWS).

As a developer and architect, he has worked closely with customers, users, and colleagues to support business solutions across a variety of industries including healthcare, insurance, finance, and government ranging from small companies to fortune 500 companies.

Prerequisites: AZ-900 Azure Fundamentals is very helpful but not required. A Candidate for the exam must have strong knowledge of data processing languages such as SQL, Python, or Scala, and they need to understand parallel processing and data architecture patterns.

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Course description: The DP-203 Exam is measured in Four domains: Design and implement data storage (40-45%), Design and develop data processing (25-30%), Design and implement data security (10-15%), and Monitor and optimize data storage and data processing (10-15%).

This course covers how to Design and Optimize Azure Data Solutions.

Course outline:

Optimize Azure Data Solutions
- Introduction
- Learning Objectives
- Troubleshoot Data Partitioning Bottlenecks
- Optimization
- Optimizing Stream Analytics
- Summary

Optimizing Synapse Analytics Service
- Introduction
- Optimizing Synapse Analytics Service
- Managing The Data Lifecycle
- Summary

Types of Data
- Introduction
- Four Types Of Data
- Data Store Types
- Summary

Select Azure Store for Application
- Introduction
- Select Azure Store For Application
- Azure Data Platform Architecture
- Rto And Rpo
- Designing A Solution That Utilizes Cosmos Db Data
- Designing For Sql DB vs. Dw
- Summary

Designing Batch Processing Solutions
- Introduction
- Designing Batch Processing Soluttions
- Data Ingestion Methods
- Summary

Real Time Processing
- Introduction
- Real Time Processing
- Design And Provision Compute Resources
- Summary

Lambda Architecture
- Introduction
- Lambda Architecture
- Planning For Secure Endpoints
- Summary