DP-203: Data Engineering in Microsoft Azure, Part 2 of 7: Relational Data Stores

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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 Data Storage using Relational Data Stores.

Course outline:

Implement Relational Data
• Introduction
• Learning Objectives
• Why Choosing Sql Server In Azure
• Azure Laas Vs Pass Database Offerings
• Sql Server Paas Deployment Options
• Demo: Single Database
• Summary

DB Purchasing Models and Service Tiers
• Introduction
• Purchasing Models And Service Tiers
• Elastic Db
• Demo: Elastic DB
• Summary

Security
• Introduction
• Security
• Scaling Azure DB
• Sql Db HA and DA Options
• Summary

SQL DB Backup and Restore
• Introduction
• Sql Db Backup And Restore
• Traditional Vs Modern Warehouse Architecture
• Summary

What is Synapse Analytics Service
• Introduction
• What Is Synapse Analytics Service

• Create Dedicated Sql Pool
• Connect Sql Pool With Ssms
• Create Azure Synapse Analytics Workspace
• Summary

Explore Synapse Studio
• Introduction
• Synapse Studio
• Create Dedicated Sql Pool And Spark Pool From Ins
• Analyse Data Using Dedicated Sql Pool
• Summary

Analyze Data using Apache Spark Notebook
• Introduction
• Analyse Data Using Apache Spark Notebook
• Analyse Data Using Serverless SQL Pool
• Data Factory Copy Tool From Synapse Integrate Tab
• Summary

Azure Synapse Architecture
• Introduction
• Azure Synapse Architecture
• Storage And Sharding Patterns
• Data Distribution And Distributing Keys
• Data Types And Table Types
• Partitioning
• Summary

Best Practices for Fact and Dimension tables
• Introduction
• Best Practices For Fact And Dimension Tables
• Demo: Analyse Data Distribution Before Migration

• Different Loading Methods
• Loading With Ssis Vs Polybase
• Summary

Loading with Polybase
• Introduction
• Demo: Loading With Polybase
• Polybase Setup
• Summary

Scaling Azure DW
• Introduction
• Scaling Azure Dw
• Sql Dw Backup And Restore
• Azure DB vs. Dw
• Summary

Dynamic Data Masking
• Introduction
• Dynamic Data Masking
• Dynamic Data Description
• Summary

Encryption
• Introduction
• Encryption
• Encryption In Rest
• Summary

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