Getting Started with Cosmos DB NoSQL Development

Varighed: 1 Day Kursus Kode: M-DP3015

Beskrivelse:

This course teaches developers to utilize Azure Cosmos DB for NoSQL API and SDK. Students will learn query execution, resource configuration, SDK operations, and design strategies for non-relational data modeling and data partitioning.

Målgruppe:

Software engineers tasked with authoring cloud-native solutions that leverage Azure Cosmos DB for NoSQL and its various SDKs.

Agenda:

- During this course you will learn:
- query execution,
- resource configuration,
- SDK operations,
- and design strategies for non-relational data modeling and data partitioning.

Forudsætninger:

Indhold:

MODULE 1 : Introduction to Azure Cosmos DB for NoSQL

- Evaluate whether Azure Cosmos DB for NoSQL is the right database for your application.
- Describe how the features of the Azure Cosmos DB for NoSQL are appropriate for modern applications.

MODULE 2 : Try Azure Cosmos DB for NoSQL

- Create a new Azure Cosmos DB for NoSQL account
- Create database, container, and item resources for an Azure Cosmos DB for NoSQL account

MODULE 3 : Plan Resource Requirements

- Evaluate various requirements of your application

MODULE 4 : Configure Azure Cosmos DB for NoSQL database and containers

- Compare the various service and throughput offerings for Azure Cosmos DB
- Migrate between standard and autoscale throughput

MODULE 5 : Use the Azure Cosmos DB for NoSQL SDK

- Integrate the Microsoft.Azure.Cosmos SDK library from NuGet
- Connect to an Azure Cosmos DB for NoSQL account using the SDK and .NET

MODULE 6 : Configure the Azure Cosmos DB for NoSQL SDK

- Configure the SDK for offline development
- Troubleshoot common connection errors
- Implement parallelism in the SDK
- Configure logging using the SDK

MODULE 7 : Implement Azure Cosmos DB for NoSQL point operations

- Perform CRUD operations using the SDK
- Configure TTL for a specific item

MODULE 8 : Query the Azure Cosmos DB for NoSQL

- Create and execute a SQL query
- Project query results
- Use built-in functions in a query

MODULE 9 : Author complex queries with the Azure Cosmos DB for NoSQL

- Implement a correlated subquery
- Create a cross-product query

MODULE 10 : Implement a non-relational data model

- Determine access patterns for data.
- Apply data model and partitioning strategies to support an efficient and scalable NoSQL database.

MODULE 11 : Design a data partitioning strategy

- Manage relationships between data entities by using advanced modeling and partitioning strategies.
- Maintain the referential integrity of your data by using change feed.
- Implement pre-aggregating and denormalizing data strategies to improve data-model performance and scaling.
- Optimizing storage and compute by mixing entity types in a single container

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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