



SHI DP-420T00 Microsoft Azure Cosmos DB User Guide

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SHI DP-420T00 Microsoft Azure Cosmos DB



Course Outline

Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Course DP-420T00: 4 days Instructor Led

About this Course

This course is designed to teach developers how to create applications using the SQL API and SDK for Azure Cosmos DB. Students will learn how to write efficient queries, create indexing policies, manage and provision resources, and perform common operations with the SDK.

Audience Profile

This course is ideal for software engineers who are tasked with authoring cloud-native solutions that leverage Azure Cosmos DB SQL API and its various SDKs. Participants should be familiar with programming languages such as C#, Python, Java, or JavaScript. It is also recommended that participants have experience writing code that interacts with a SQL or NoSQL database platform.

At Course Completion

After completing this course, students will be able to:


- Get started with Azure Cosmos DB for NoSQL
- Plan and implement Azure Cosmos DB for NoSQL
- Connect to Azure Cosmos DB for NoSQL with the SDK
- Access and manage data with the Azure Cosmos DB for NoSQL SDKs
- Execute queries in Azure Cosmos DB for NoSQL
- Define and implement an indexing strategy for Azure Cosmos DB for NoSQL
- Integrate Azure Cosmos DB for NoSQL with Azure services
- Implement a data modeling and partitioning strategy for Azure Cosmos DB for NoSQL
- Design and implement a replication strategy for Azure Cosmos DB for NoSQL
- Optimize query and operation performance in Azure Cosmos DB for NoSQL
- Monitor and troubleshoot an Azure Cosmos DB for NoSQL solution
- Manage an Azure Cosmos DB for NoSQL solution using DevOps practices
- Create server-side programming constructs in Azure Cosmos DB for NoSQL

Course Outline

1. **Module 1:** Get started with Azure Cosmos DB for NoSQL
2. **Module 2:** Plan and implement Azure Cosmos DB for NoSQL
3. **Module 3:** Connect to Azure Cosmos DB for NoSQL with the SDK
4. **Module 4:** Access and manage data with the Azure Cosmos DB for NoSQL SDKs
5. **Module 5:** Execute queries in Azure Cosmos DB for NoSQL
6. **Module 6:** Define and implement an indexing strategy for Azure Cosmos DB for NoSQL
7. **Module 7:** Integrate Azure Cosmos DB for NoSQL with Azure services
8. **Module 8:** Implement a data modeling and partitioning strategy for Azure Cosmos DB for NoSQL
9. **Module 9:** Design and implement a replication strategy for Azure Cosmos DB for NoSQL

10. **Module** Optimize query and operation performance in Azure Cosmos DB for NoSQL Module
 11. Monitor and troubleshoot an Azure Cosmos DB for NoSQL solution
 12. **Module 12:** Manage an Azure Cosmos DB for NoSQL solution using DevOps practices
 13. **Module 13:** Create server-side programming constructs in Azure Cosmos DB for NoSQL
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Documents / Resources

	<p>SHI DP-420T00 Microsoft Azure Cosmos DB [pdf] User Guide</p> <p>DP-420T00 Microsoft Azure Cosmos DB, DP-420T00, Microsoft Azure Cosmos DB, Azure Cosmos DB, Cosmos DB</p>
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References

- [User Manual](#)