SQL SERVER FOR DEVELOPERS

Duration: 4 Days

COURSE OVERVIEW

The SQL Server for Developers course is a comprehensive program designed to equip you with the knowledge and skills necessary to use Microsoft SQL Server effectively in your applications.

This course not only introduces you to the robust capabilities of SQL Server as a database management system but also focuses on practical, hands-on learning experiences that help you master essential development-related tasks using SQL Server.

The course extensively covers SQL queries, ranging from basic data retrieval to advanced querying techniques like subqueries, set operations, and joins. You will progressively develop your skills, mastering the manipulation, sorting, filtering, and grouping of data.

Security is an indispensable aspect of database management, and this course takes a deep dive into SQL Server's security features. It explores various concepts, including authentication, authorization and encryption, teaching you to build highly secure SQL Server applications.

By the end of this course, you will be well-versed in the effective use of SQL Server's capabilities, leading to the creation of secure, maintainable, and efficient applications. With a blend of theory and hands-on learning, this course ensures that you are well-equipped to apply their newfound knowledge in your development projects immediately.

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WHAT YOU WILL ACCOMPLISH

- ✓ Introduction to SQL Server

- ✓ Understanding SQL Server Database Design

- ✓ Understanding Data Normalisation and Relationships

- ✓ Working on SQL Server Tables

- ✓ Working on SQL Server Data Manipulation

- ✓ Working on SQL Server Data Querying and Filtering

- ✓ Working on SQL Server Joins

- ✓ Working on SQL Server Data Aggregation and Grouping

- ✓ Working on SQL Server Combine Queries and Subqueries

- ✓ Working on SQL Server Common Table Expression (CTE)

- ✓ Working on SQL Server Built-In Functions

- ✓ Working on SQL Server JSON data

- ✓ Working on SQL Server Store Procdures and Views

- ✓ Working on SQL Server Triggers

- ✓ Working on SQL Server Data Imports and Exports

- ✓ Working on SQL Server Backups and Recovery

- ✓ Working on SQL Server Database Security

- ✓ Working on SQL Server Databse Design Project

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WHY THIS COURSE

The journey of becoming a SQL Server for Developer can bring numerous benefits to you as a developer.

- SQL Server is one of the most widely used database management systems globally. Businesses across various industries use SQL Server to manage their data effectively. Thus, having SQL Server skills can make you highly desirable in the job market.

- This course will equip you with a strong and efficient skills to retrieve, filter, and manipulate data using SQL queries. You will learn how to write optimized queries, perform complex joins, and utilize functions to transform and aggregate data. You will also learn not only how to use SQL Server but also how to leverage its powerful features to build efficient and secure data-centric applications.

- Good database design can significantly impact an application's performance and maintainability. The course will teach you robust database design principles, enabling you to design databases that are efficient, maintainable, and secure.

- The course covers Transact-SQL (T-SQL), SQL Server's powerful proprietary language. Mastery of T-SQL will help you write complex SQL queries and programmatic database objects such as stored procedures and triggers, significantly improving your coding skills.

- Inefficient SQL queries can slow down an application. The course teaches performance tuning techniques, enabling you to write efficient SQL queries and design databases for optimal performance.

- The course not only provides theoretical knowledge but also practical skills. You will get hands-on experience working with SQL Server, preparing you to tackle real-world scenarios.

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WHY THIS COURSE

- The course includes practical exercises and real-world examples to reinforce your understanding. Hands-on experience with SQL Server and its related tools will enhance your confidence and ability to apply your skills in practical scenarios.

- SQL Server has been a prominent database management system for many years and continues to be widely used. By acquiring skills in SQL Server, you establish a foundation that will remain relevant for years to come, providing stability and long-term career prospects.

Taking the SQL Server for Developer course offers a comprehensive learning experience that equips you with the necessary skills to succeed as a developer in today's data-driven world. It provides a pathway to exciting career opportunities and enhances your value in the job market.

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WHO SHOULD ATTEND

This course is designed with developers in mind. It is a valuable resource for anyone interested in learning about Microsoft SQL Server, its architecture, functionalities, and application in software development.

- If you are new to database development or have limited experience with SQL Server, this course is an excellent starting point. It provides a comprehensive introduction to SQL Server, equipping you with the necessary skills to begin a career as a database developer or application developer.

- If you are already working as a developer and want to enhance your skills in working with SQL Server databases, this course is designed for you. It will deepen your understanding of SQL Server, improve your query writing techniques, and provide insights into advanced topics such as query optimization and performance tuning.

- Software engineers who need to interact with databases as part of their software development projects can benefit from this course. Understanding SQL Server and its capabilities will enable you to integrate databases seamlessly into your applications and write optimized queries.

- This course is directly relevant to database developers who are using or planning to use SQL Server for their database development tasks. The comprehensive focus on SQL Server, from T-SQL to security features, makes this course ideal for them.

- If you have a general interest in databases and want to acquire proficiency in SQL Server, this course is suitable for you. It provides a solid foundation in SQL Server and equips you with the skills necessary to work with the RDBMS effectively.

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COURSE PREREQUISITE

To effectively learn the SQL Server for Developer course, it is beneficial to have a basic understanding of the following prerequisites:

- No working experience on SQL Server is required

- Comfortable navigating and working in a Windows environment.

- Comfort with using computers, navigating through the file system, and working with software applications is important. You should be able to perform tasks such as installing software, navigating through directories, and executing basic commands.

This course is designed to be accommodative towards varying levels of experience. Therefore, even if you don't have extensive programming or database knowledge, you can still benefit from the course by starting with the basics and building your skills from there.

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