Why Microsoft SQL Developer Certifications ?

Demonstrate your essential skills as a database professional, for both on-premises and cloud-based databases.

Prove your skills in building and implementing databases across organizations, and will qualify you for a position as a database developer.

Audience Profile :

- The main purpose of the course is to give students a good understanding of the Transact-SQL language which is used by all SQL Server-related disciplines; namely, Database Administration, Database Development and Business Intelligence.
- As such, the primary target audience for this course is: Database Administrators, Database Developers and BI professionals.

Prerequisites:

- Microsoft Windows operating system and its core functionality.
- Working knowledge of Transact-SQL.
- Working knowledge of relational databases.

Course Overview:

- Demonstrate your essential skills as a database professional, for both on-premises and cloud-based databases.
- Prove your skills in building and implementing databases across organizations, and will qualify you for a position as a database developer.
- Begin your career working with SQL and relational database management systems.
- With this learning path, you can learn the fundamentals of relational databases and gain foundational understanding of the capabilities of SQL.
- SQL developer is responsible for database systems design, which are used for storing and accessing business-related information.
- An SQL developer makes informed decisions regarding compatible database languages and technologies.
- They also document code, provide progress reports, and perform code review and peer feedback.

In this Learning path

1. **Querying Data Transact-SQL**
2. **Developing SQL Databases**

Querying Data Transact-SQL Outline:

- Module 1: Introduction to Microsoft SQL Server 2016
- Module 2: Introduction to T-SQL Querying
- Module 3: Writing SELECT Queries
- Module 4: Querying Multiple Tables
- Module 5: Sorting and Filtering Data
- Module 6: Working with SQL Server 2016 Data Types
- Module 7: Using DML to Modify Data
- Module 8: Using Built-In Functions
- Module 9: Grouping and Aggregating Data
- Module 10: Using Subqueries
- Module 11: Using Table Expressions
- Module 12: Using Set Operators
- Module 13: Using Windows Ranking, Offset, and Aggregate Functions
- Module 14: Pivoting and Grouping Sets
- Module 15: Executing Stored Procedures
- Module 16: Programming with T-SQL
- Module 17: Implementing Error Handling
- Module 18: Implementing Transactions

Developing SQL Databases Outline:

- Module 1: Introduction to Database Development
- Module 2: Designing and Implementing Tables
- Module 3: Advanced Table Designs
- Module 4: Ensuring Data Integrity through Constraints
- Module 5: Introduction to Indexes
- Module 6: Designing Optimized Index Strategies
- Module 7: Columnstore Indexes
- Module 8: Designing and Implementing Views
- Module 9: Designing and Implementing Stored Procedures
- Module 10: Designing and Implementing User-Defined Functions
- Module 11: Responding to Data Manipulation via Triggers
- Module 12: Using In-Memory Tables
- Module 13: Implementing Managed Code in SQL Server
- Module 14: Storing and Querying XML Data in SQL Server
- Module 15: Storing and Querying Spatial Data in SQL Server
- Module 16: Storing and Querying BLOBs and Text Documents in SQL Server
- Module 17: SQL Server Concurrency
- Module 18: Performance and Monitoring

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