Modality: On Demand

Duration: 9 Hours

About this Course:

The SQL 2014 Developer P2: VS 2012 and Data Types course is the second course in the three course series on SQL Server 2014. This series of courses is a comprehensive series covering all the intermediate to advanced level topics of SQL Server 2014. The topics covered in part 2 of this series are related to the Visual Studio 2012 and focuses on the data types available in SQL Server 2014. The course covers the related sub-topics in a great detail and enables the students to implement the gained knowledge in their everyday tasks.

The SQL 2014 Developer P2: VS 2012 and Data Types course covers the fundamental topics necessary to build, manage, and maintain databases in SQL Server 2014. The course enables the students to efficiently perform the management tasks on their databases and learn the new and advanced features available in SQL Server 2014. The course series comprises of three courses which combine to give a complete and comprehensive knowledgebase to the students working with SQL Server 2014.

The average salary for SQL Developer is \$74,844 per year.

Course Objectives:

- Understand the concepts of aggregates, user defined types (UDT), table valued functions (TVF) and modules
- Develop and update a connected database
- Create new objects with T-SQL
- Compare database schemas
- Develop offline databases
- Learn to use APPLY and MERGE statements
- · Learn about hierarchy and sparse columns
- Understand spatial data types

Audience:

- Database professionals with experience in SQL Server 2014 looking to learn more advanced features and techniques of SQL Server 2014
- Candidates seeking SQL Server 2014 certifications

Prerequisite:

 The SQL 2014 Developer series of courses is designed for experienced professionals having technical knowledge of building and managing databases, data warehouses and business intelligence solution with SQL Server 2014.

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- In addition to this, operational knowledge and familiarity with Microsoft Windows Server 2012
 R2 or later is required to grasp the concepts covered in this course.
- It is also recommended that the students undertake the SQL 2014 Developer series courses in the respective order.

Course Outline:

Chapter 01: Aggregate, UDT, TVF and Modules

- Topic A: Aggregates Part 1
- Aggregates Part 2
- Aggregates Part 3
- Topic B: User Defined Types Part 1
- User Defined Types Part 2
- User Defined Types Part 3
- Topic C: Table and Functions Part 1
- Table and Functions Part 2
- Table and Functions Part 3
- Topic D: Managing Code Modules Part 1
- Managing Code Modules Part 2
- Managing Code Modules Part 3

Chapter 02: Data Tools

- Topic A: Introduction Data Tools Part 1
- Introduction Data Tools Part 2
- Introduction Data Tools Part 3
- Topic B: Connected Database Development Part 1
- Connected Database Development Part 2
- Connected Database Development Part 3
- Topic C: Updating a Connected Database Part 1
- Updating a Connected Database Part 2
- Updating a Connected Database Part 3

Chapter 03: Schemas and Offline Development

- Topic A: Creating New Objects with TSQL Part 1
- Creating New Objects with TSQL Part 2
- Creating New Objects with TSQL Part 3
- Topic B: Comparing Database Schemas Part 1
- Comparing Database Schemas Part 2
- Comparing Database Schemas Part 3
- Topic C: Offline Database Development Part 1
- Offline Database Development Part 2
- Offline Database Development Part 3
- Topic D: Database Project Settings Part 1
- Database Project Settings Part 2
- Database Project Settings Part 3

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Chapter 04: APPLY, MERGE and Grouping Sets

- Topic A: Using APPLY Part 1
- Using APPLY Part 2
- Using APPLY Part 3
- Topic B: MERGE Statement Part 1
- MERGE Statement Part 2
- MERGE Statement Part 3
- Topic C: Creating Recursive Queries Part 1
- Creating Recursive Queries Part 2
- Creating Recursive Queries Part 3
- Topic D: Grouping Sets Part 1
- Grouping Sets Part 2
- Grouping Sets Part 3

Chapter 05: ROLLUP, CUBE and Pivot Queries

- Topic A: ROLLUP and CUBE Operators Part 1
- ROLLUP and CUBE Operators Part 2
- ROLLUP and CUBE Operators Part 3
- Topic B: Creating Pivot Queries Part 1
- Creating Pivot Queries Part 2
- Creating Pivot Queries Part 3
- Topic C: Executing Dynamic SQL Part 1
- Executing Dynamic SQL Part 2
- Executing Dynamic SQL Part 3

Chapter 06: Query Execution

- Topic A: Complex Query Execution Part 1
- Complex Query Execution Part 2
- Complex Query Execution Part 3
- Topic B: Using Execution Plans Part 1
- Using Execution Plans Part 2
- Using Execution Plans Part 3
- Topic C: Execution Plan Operators Part 1
- Execution Plan Operators Part 2
- Execution Plan Operators Part 3
- Topic D: Common Join Operators Part 1
- Common Join Operators Part 2
- Common Join Operators Part 3

Chapter 07: Hierarchy and Columns

- Topic A: Hierarchy ID Data Type Part 1
- Hierarchy ID Data Type Part 2
- Hierarchy ID Data Type Part 3
- Topic B: Exploring a Hierarchy Part 1

- Exploring a Hierarchy Part 2
- Exploring a Hierarchy Part 3
- Topic C: Sparse Columns Part 1
- Sparse Columns Part 2
- Sparse Columns Part 3
- Topic D: Column Sets Part 1
- Column Sets Part 2
- Column Sets Part 3

Chapter 08: Filtered, Streams, Sequences

- Topic A: Filtered Indexes Part 1
- Filtered Indexes Part 2
- Filtered Indexes Part 3
- Topic B: FILESTREAM Storage Part 1
- FILESTREAM Storage Part 2
- FILESTREAM Storage Part 3
- Topic C: Adding Sequences to Queries Part 1
- Adding Sequences to Queries Part 2
- Adding Sequences to Queries Part 3

Chapter 09: Spatial Data Types

- Topic A: Introduction to Spatial Data Part 1
- Introduction to Spatial Data Part 2
- Introduction to Spatial Data Part 3
- Topic B: Spatial Data in SQL Server Part 1
- Spatial Data in SQL Server Part 2
- Spatial Data in SQL Server Part 3
- Topic C: Manipulating Spatial Shapes Part 1
- Manipulating Spatial Shapes Part 2
- Manipulating Spatial Shapes Part 3
- Topic D: Interactions Between Objects Part 1
- Interactions Between Objects Part 2
- Interactions Between Objects Part 3

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