# SQL 2014 Developer P2: VS 2012 and Data Types

#### Modality: On Demand

**Duration: 9 Hours** 

## About this course:

In the three-course series, this course is the second course "the SQL 2014 Developer P2: VS 2012 and Data Types course. This course series is an informative arrangement covering all the SQL Server 2014 subjects of intermediate to advanced level. The subjects included in the 2nd part of this arrangement are identified with the Visual Studio 2012 and aims at the kinds of data accessible in SQL Server 2014. The related sub-topics cover in this course in good detail and empowers the learners to accomplish the acquired information in their routine work.

This course of SQL 2014 Developer P2: VS 2012 and Data Types also contains the essential subjects important to manage, build, and maintain databases in SQL Server 2014. The course empowers the learners to productively work out the management activities on their databases and becomes familiar with the progressive and new features accessible in SQL Server 2014. The series of this course contains three courses that join to give a comprehensive and complete information base to the learners using SQL Server 2014.

The normal compensation for a SQL Developer is \$74,844 annually.

## **Course Objective:**

- 1. Comprehend the concepts of table-valued functions (TVF), user-defined types (UDT), aggregates, and modules.
- 2. Explore about sparse and hierarchy columns
- 3. Offline databases Development
- 4. Database schemas Creation
- 5. Update and develop a connected database
- 6. Learn to use MERGE and APPLY statements
- 7. New objects Creation with T-SQL
- 8. Realize spatial data types

## Audience:

- Database experts with the SQL Server 2014 experience, hoping to learn further developed techniques and features of SQL Server 2014.
- Competitors looking for the certifications of SQL Server 2014.

## **Prerequisite:**

• The series of SQL 2014 Developer courses are intended for experienced experts having specialized information on managing and building databases, business intelligence, and data warehouses solution with SQL Server 2014.

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• Furthermore, operational recognition and information with MS Windows Server 2012 R2 or later is necessary to get a handle on the ideas included in this course.

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• It is also suggested that the learners undertake the series of courses of SQL 2014 Developer 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

- 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

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- 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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