

Microsoft SQL Server 2012 Database Development (70-464) exam preparation



DPIC-78 5 Days (35 Hours)

Description

This training will teach you how to develop databases with SQL Server 2014/2012. You will see how to create database objects including views, stored procedures as well as parameters and functions. This course covers all the topics necessary to prepare for the Microsoft 70-464 exam.

Who is this training for ?

For whom

Developers.

Prerequisites

Knowledge of basic relational database concepts

Training objectives

- create databases with SQL Server 2014/2012
- Develop stored procedures and functions
- Know how to use indexes to guarantee database performance
- Enter an educational objective here

Training program

Introduction à la base de données

- The architecture of the SQL Server platform.
- Tools and services.
- Practical work Getting started with SQL Server Management Studio .

Tables et schémas

- SQL Server tools and services.
- Design tables.
- Work with schemas.
- Practical work Create and modify tables.

L'intégrité des données et l'indexation

- How to ensure data integrity? Referential and entity integrity.
- The principles of indexing.
- The structures of SQL Server table.
- Cluster indexes.
- Execution plans.
- Monitor the system to evaluate the performance of the indexing strategy.
- Presentation of columnstore indexes.
- Practical work Constraint analysis.
- Create tables with clustered indexes.
- Create columnstore index.

Vues et procédures stockées

- Presentation of the view concept.
- Stored procedures.
- Parameterizable stored procedures.
- Control the execution context.
- Practical work Create views.
- Develop stored procedures.

Fonctions et déclencheurs

- Introduction to functions.
- Scalar functions and table functions.
- What are DML triggers? Advanced concepts on triggers.
- Practical work Create a new function and modify an existing one.
- Create and test a trigger.

Tables en mémoire et code managé dans SQL Server

- Advantages and disadvantages of using in-memory tables.
- Native stored procedures.
- Introduction to SQL CLR integration.
- Import and configure assemblies.
- Practical work Working with memory-optimized tables.
- Implementing CLR SQL integration.

Gestion des données XML dans SQL server

- Overview of XML.
- How to store XML data and schema in SQL Server.
- The T-SQL FOR XML statement.
- The XQuery query language.
- Practical work Store XML data then execute a query in XML format.

Les données spatiales et SQL Server

- What is spatial data? SQL Server and spatial data.
- How to integrate spatial data into applications? Practical work Add spatial data to an existing table.