Course : What's new in SQL Server 2022

Practical course - 2d - 14h00 - Ref. SSN
Price : 1430 € E.T.

Administration, security, development, performance, high availability: there are many new features in Microsoft's SQL Server 2022 database engine. This training course will provide you with the knowledge you need to implement SQL Server 2022 effectively and efficiently.

Teaching objectives

At the end of the training, the participant will be able to:

- Understanding the contributions of SQL Server from version 2012 to 2022
- New features for administration, security and performance monitoring
- Know what's new in database design and development

Intended audience

Project managers, DBAs and database solution developers who plan to upgrade to SQL Server 2022 or need to know what's new.

Prerequisites

Good knowledge of a SQL Server version between 2008 and 2019.

Practical details

Demonstrations and hands-on work with SQL Server 2022

Course schedule

1 SQL Server 2022

- A little history.
- An overview of the contributions of version 2022.
- Update and migrate from previous versions.

Hands-on work
Migration of a database from a previous version.

PARTICIPANTS
Project managers, DBAs and database solution developers who plan to upgrade to SQL Server 2022 or need to know what's new.

PREREQUISITES
Good knowledge of a SQL Server version between 2008 and 2019.

TRAINER QUALIFICATIONS
The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS
The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

2 Features since SQL Server 2012 and 2016

- Contained Databases.
- FileTable.
- Extended Events.
- How the cardinalities estimator works.
- SQL Always On high availability.
- What's new in TSQL.
- Always Encrypted.
- Line-level security.
- Dynamic Data Masking.
- Time tables.
- JSON support.
- OLTP In Memory.
- Index Column Store.
- Query Store.
- Graph Databases.
- SQL Server on Linux and Docker Containers.

Hands-on work

Experiment with the functionalities covered in the chapter.

3 Administration and security

- Resumable index.
- Advanced Database Recovery.
- Database Ledger.
- Azure Managed Instance Link.
- Azure Arc.

Hands-on work

Experiment with the administration and security functions presented.

4 Design and development

- What's new in TSQL.
- UTF8 support.
- Language extensions.

Hands-on work

Implementation of In-Memory tables and Index Column Store.

5 Performance

- Improvements to tempdb.
- Intelligent Query Processing: adaptive joins, deferred compilation, automatic indexing (Azure)...

Hands-on work

Test improvements in execution plans and performance.

Dates and locations

REMOTE CLASS
2026 : 1 June, 1 Oct.

PARIS LA DÉFENSE
2026 : 18 May, 24 Sep.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.