SAP HANA® 2.0 SPS07 SQLScript for SAP HANA

Duration: 3 Days   Course Code: HA150

Overview:

To maximize the performance of data models and applications running on SAP HANA, it is essential that all data related tasks are effectively and according to best practices programmed at the database level. The language used is SQL and its SAP HANA specific extended variant called SQLScript.

This course covers programming with SQL and SQLScript in the SAP HANA database and includes all key areas for writing efficient declarative and imperative code and much more. Through examples and exercises you will be guided through recommended approaches from SAP intensively.
This course is based on SAP HANA 2.0 and uses SAP Web IDE / SAP HANA extended application services but is useful as well for customers coming from SAP HANA 1.0 using SAP HANA studio / XSC and other SQL clients.
Updated Nov2025

Target Audience:

Application DeveloperData ModelerBI / BW ConsultantData ScientistDatabase AdministratorSAP HANA Support Personnel

Objectives:

- This course will prepare you to:

- Find smart ways in SAP HANA to push down data intensive tasks to SAP HANA with SQLScript and guarantee performance over time

- Understand how to code using advanced SQLScript techniques with guided best practices

- Follow recommended best practices in data models for writing in-memory optimized SQL code

- Gain solid knowledge on how to fix performance issues on behalf of SAP HANA's traces and solve those issues in an enduring way

Prerequisites:

- No specific prerequisites.
- This course assumes students already have basic knowledge of standard SQL as the focus is on SQLScript and SAP HANA functions in particular. Nevertheless, the course does include excellent and comprehensive coverage of standard SQL in the introduction and in the appendix part.
- Basic knowledge on SAP HANA acquired by experience or through HA100 is recommended.
- Understanding Database concepts and having SQL notions will be useful.

Testing and Certification

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Content:

Getting Started

- Fast and effective walk through HDBSQL and SQLScript and its special functionalities
- Understanding SAP HANA extended application services and HDI to support SAP HANA development in SQL
- Learn to work with Web IDE for SAP HANA
- Quickly finding the right way to SQL solutions

SQL Essentials

SQL Logic Containers

- Creating user-defined functions
- Creating database procedures
- Trapping errors in SQLScript
- User defined libraries, functions and stored procedures

Declarative Logic

- Using declarative logic

Imperative Logic

- Using imperative logic if needed
- How to implement transactional save points

Working with temporal tables

OLAP operations

- Using OLAP analytic features

Working with hierarchies

Troubleshooting and best practices

- Tools for troubleshooting and creating professional performance tuning
- Best practices and how to reduce code volume while leveraging smart SAP HANA functionalities

Appendix: Starting from the beginning with SQL fundamentals

Additional Information:

Course based on software release SAP HANA 2.0 SPS07 Official course book provided to participants.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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