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Sign up

Teradata VantageCloud training

3 days (21 hours)

Presentation

Our Teradata VantageCloud training course will enable you to fully analyze your data in the cloud. You'll benefit from advanced [modeling](#) to exploit your data.

Our training program will give you a comprehensive introduction to the tool, with a detailed look at its architecture and interface. You'll learn how to manage your data (loading, unloading, integration, cleaning, etc.).

We'll teach you how to execute advanced SQL queries using analytical functions and subqueries. You'll learn how to create relevant data models by applying IA best practices such as [normalization](#) and partitioning.

Finally, you'll learn how to analyze your data via machine learning algorithms while keeping an eye on your performance.

Objectives

- Understand the architecture and basic concepts of Teradata VantageCloud
- Master data management techniques and ETL tools
- Learn data modeling and performance strategies on Teradara
- Know how to apply data analysis techniques and machine learning algorithms

Target audience

- Project managers
- Data analysts
- Data scientists
- Data engineers
- Business analysts

- System administrators

Prerequisites

- Knowledge of cloud computing and Big Data
- Mastery of SQL language

TERADATA VANTAGECLOUD TRAINING PROGRAM

INTRODUCTION TO TERADATA VANTAGECLOUD

- Understanding the Teradata VantageCloud architecture
- Basic concepts and terminology
- The benefits of the platform
- Typical use cases
- Overview of tools and interface

DATA MANAGEMENT

- Loading data
- Data download
- Data integration
- Transformation
- Cleaning
- Use of ETL tools

ADVANCED SQL

- Complex requests
- Subqueries
- Analytical and aggregate functions
- Advanced joins
- Using derived views and tables
- Transaction management
- Competition control

DATA MODELING

- Creating database schemas
- Standardization
- Denormalization
- Indexing to improve performance
- Table partitioning

- Modeling strategies for big data

DATA ANALYSIS

- Descriptive analysis techniques
- Predictive analysis techniques
- Use of machine learning algorithms
- Creating analytical models
- Data visualization

SAFETY

- Access and permissions management
- Activity monitoring and auditing
- Compliance with legal regulations
- Data encryption
- Backup strategies

PERFORMANCE AND SCALABILITY

- Performance monitoring
- Query optimization
- Horizontal scalability
- Vertical scalability
- Workload management
- Efficient use of resources

DEPLOYMENT

- Development of scripts and stored procedures
- Workflow automation
- Deploying analytical models
- Using CI/CD for deployment
- Version and update management

CONTINUING EDUCATION

- Resources for continuing education
- Community and support forums
- Additional tools and resources

Companies concerned

This course is aimed at both individuals and companies, large or small,

wishing to train its teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire enabling us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives with regard to the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.