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Sign up

Snowflake training: Data Warehouse as a Service
3 days (21 hours)

Presentation

Master data management in the cloud with our Snowflake training course. This environment will enable you establish multi-cloud hosting strategy your organization.

The benefits are many:

- A single source for your data to simplify business analysis
- A powerful hosting system that shares data instantly
- This Data Warehouse as a Service takes advantage of automated data management to boost your productivity.

Our Snowflake training course will teach you how to use the service, manage your data warehouse, get to grips with the interface, run queries and learn about data security.

At the end of this course, you'll know how to administer and manage your data on a Snowflake cloud-hosted data warehouse.

Objectives

- Managing your data warehouse with Snowflake
- Understand the tool's structure and interface
- Warehouse SQL language skills
- Learn about best practices in Snowflake security and administration

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
- Programming experience

Snowflake training program

Introduction

- Introducing Snowflake and its features
- The advantages of using the cloud to host your data
- Architectural overview
- Which Cloud platform for which region?

Getting started with Snowflake

- Interface presentation
  - Worksheets
  - Dashboards
  - Data
  - Marketplace
  - Activity
  - Admin
- Connect to SnowSQL
- Create objects
- Handling data
  - Create data
  - Integrate data
  - Joint
  - Create your first queries
  - Delete your data

Using your data warehouse

- Introducing virtual warehouses
- Using multiclusters
- Create your warehouse
- Configuration
- Activation and suspension
- The USE WAREHOUSE command

Data structure

- Databases
- The tables
  - The different types of table
  - External tables
  - Automatic cooling
- The views
- Using secure views
- Data storage management

Data loading

- The different ways of loading data
- Limits to be respected
- Best practices
- Snowpipe
  - Continuous loading
  - Snowpipe Streaming
- Transforming data during loading
- Unloading functionality
- Good unloading practices

Queries

- SQL reminder
- Snowflake special features
- Subqueries
- Queries for hierarchical data
- ETCs and how to use them
- The functions
- Persisted query
- Sheet music
- The Qualify clause

Data sharing

- Ensuring data integrity
- Using Snowsight
- Sharing with several databases
- Sharing across multiple Cloud platforms
- Using secure objects
- Data exchange

Security

- Good safety practices
- Authentication
  - The secrets
  - SSO
  - Multi-factor authentication
  - OAuth
- Securing your network
- Data encryption

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer 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 which enables 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 for 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, 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.