Szkolenie: Micro Focus
VT120 - Vertica Essentials

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<th>FORMA SZKOLENIA</th>
<th>MATERIAŁY SZKOLENIOWE</th>
<th>CENA</th>
<th>CZAS TRWANIA</th>
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<td>Stacjonarne</td>
<td>Cyfrowe</td>
<td>6720 PLN NETTO*</td>
<td>4 dni</td>
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* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00
Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

Cel szkolenia:

The Vertica Essentials course explores the capabilities of the Vertica platform solution, and prepares you to manage the operational success of your deployment.

During this course, you will learn:

- The architectural elements of a Vertica cluster
- How to load and manage data in the database
- How to manage database users and resources
- How to back up and restore the database
- Introductory information about Vertica’s built-in analytic functions
- How to work with semi-structured data
- Database security environment concerns

This class combines lectures with hands-on laboratory exercises performed in a live Vertica database cluster.

Upon successful completion of this course, you should be able to:

- Describe Vertica’s database and data storage structures
- Load and remove data from a Vertica database
- Optimize the database to improve query performance
- Create and manage database users and resources
Back up and restore a Vertica database
Find additional information and resources for working with Vertica

Audience/Job Roles

This course is intended for database administrators, database architects, data analysts, and application developers.

Plan szkolenia:

- Introduction to the Training Environment
  - Accessing the training environment and reviewing its contents and structure
  - Reviewing the Student Guide
  - Starting and stopping a Vertica database

- Vertica Overview
  - Describe the building blocks of the Vertica platform

- Introduction to Projections
  - Read a projection DDL to determine its structure
  - Identify replicated and segmented projections
  - Use the database K-safety value to identify dependent nodes

- Loading Data
  - Review the structure of tables and projections
  - Load data using Vertica’s hybrid storage model
  - Manually run the moveout and mergeout tasks

- Query Execution
  - Generate a query plan
  - Time a query
  - Profile a query
  - Identify the database epochs
  - Find data loaded at different epochs

- Optimizing the Database
  - Create a comprehensive database design using Management Console
  - Review the Database Designer output files
  - Deploy the comprehensive database design

- Partitioning Data
  - Create partitioned tables
  - Load data into partitions
  - Move partitioned data into archive tables
Removing Data
- Remove data by dropping and truncating tables
- Bulk delete data from tables
- Purge delete vectors
- Remove data by dropping partitions

Database User Management
- Create new database users
- Create new database user roles
- Assign a role to a user
- Create a role hierarchy

Table Access Privileges
- Assign inheritable privileges to a database schema
- Limit access to database columns and rows by role
- Restrict non-administrative access to system tables

Resource Management
- Review the default resource pools and parameters
- Create a new resource pool
- Test the user access to the new resource pool

Database Backup and Restore
- Create a backup configuration file
- Back up the database
- Review the database backups
- Restore the database

Overview of Analytic Functions
- Discuss the structure of an analytic query
- Review Vertica-specific functions:
  - Conditional events
  - Gap filling and interpolation
  - Pattern matching
  - Geospatial definitions
  - Predictive analytics through machine learning

Securing the Database
- User authentication options
- Securing your environment from outside threats
- User authorization options

Flex Tables and SemiStructured Data
Define and describe semi-structured data
Create new flex tables and their supporting tables
Load data in different formats into a flex table
Explore data stored in flex tables

Introduction to Vertica SQL on Hadoop
The challenges for accessing information in data lakes
The SQL on Hadoop architecture
Integrating Vertica and Hadoop information

Next Steps
Find additional information on using Vertica
Review additional Software Education training
Introduce Micro Focus Software Vertica Certification
Introduce Vertica Community portals

Wymagania:

To be successful in this course, you should have the following prerequisites or knowledge:

- Intermediate knowledge of RDBMS concepts (understanding databases and schemas, database normalization, etc.)
- Basic understanding of SQL (familiarity with basic SQL syntax, ability to troubleshoot syntax errors, etc.)
- Basic experience with the Linux operating system (how to change directories and list the contents, how to view and edit files, etc.)

Poziom trudności

Certyfikaty:

The participants will obtain certificates signed by Micro Focus (course completion).

This course prepares you also for such related Micro Focus certification exam: VT120C-90-ASP – Vertica Accredited Software Professional EXAM.

Prowadzący:

Authorized Micro Focus Trainer.