Data Analytics using Qlik Sense

Course Duration: 32 Hours

Course Description:

Discover the full potential of Qlik Sense with our in-depth course designed to provide you with comprehensive knowledge and hands-on skills. Begin your journey with an overview of Qlik Sense, understanding its advantages over QlikView, and the growing need for self-service BI tools. Explore essential features like drag-and-drop visualization, data indexing, and effective dashboard design. Master data modelling techniques, including converting data structures, handling inconsistencies, and creating efficient data models. The students will also learn advanced modelling concepts such as the star schema and linking tables. Gain proficiency in using Qlik Sense Enterprise tools, embedding visuals, and integrating big data. Enhance your visualization skills by creating rich, interactive charts and maps, and learn advanced storytelling techniques to share your insights effectively. Additionally, delve into crucial topics like security, mashups, and extensions to ensure a well-rounded understanding of Qlik Sense's capabilities.

Prerequisites

- Basic understanding of data concepts and familiarity with Business Intelligence (BI) principles and tools.
- Understanding of relational databases and data modelling principles.
- Experience with data analysis or working with spreadsheets, such as Excel.
- Basic knowledge of SQL (Structured Query Language) for data retrieval and manipulation.

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Module 1: Introduction to Qlik Sense

- Getting started with Qlik Sense
- Qlik Sense vs. QlikView
- Need of Self-Service BI tools
- Qlik Sense data discovery
- Installation of Qlik Tools

Module 2: Qlik Sense Features

- Drag-and-drop visualization

- Qlik Data indexing engine
- data dimensions and relationships
- Get Data from multiple data sources
- Design Dashboards
- Collaboration

Module 3: Qlik Sense Data Model

- Understand data modelling
- Best practices
- Converting data columns into rows
- Converting data rows into fields
- Hierarchical-level data loading
- Update Data from Database
- Combine data from two tables
- Handling data inconsistencies

Module 4: Creating a Data Model

- Qlik Sense data architecture
- Understanding QVD layer
- converting QlikView files to Qlik Sense files
- Synthetic keys and circular references

Module 5: Advanced Data Modelling

- Qlik Sense star schema
- Link tables
- Dimensions table
- Master calendar
- Optimizing data modelling

Module 6: Qlik Sense Enterprise

- Qlik Sense enterprise class tools
- Qlik Sense custom app
- Embedding visuals
- Powerful open APIs
- Enterprise-class architecture
- Big Data integration

- Enterprise security and elastic scaling

Module 7: Qlik Sense Visualisations

- Qlik Sense visualization tools
- Charts and maps creation
- Rich data storytelling and sharing analysis
- Set Analysis
- Advanced Set Analysis
- Qlik Sense Charts
- Advanced Charts
- Qlik Sense Storytelling

Module 8: Additional Concepts with Qlik Sense

- Mashups
- Extensions
- Security aspects of Qlik Sense
- Content security
- Security Rules
- Understanding data reductions and dynamic data reductions