MARBLE ARCHES
Trainings & Events

Comprehensive SQL Language

Introduction:

As data collection has increased exponentially, so has the need for people skilled at using and interacting with data; to be able to think critically, and provide insights to make better decisions and optimize their businesses. This course is designed to give you a primer in the fundamentals of SQL and working with data so that you can begin analyzing it for data science purposes. You will begin to ask the right questions and come up with good answers to deliver valuable insights for your organization. This course starts with the basics and assumes you do not have any knowledge or skills in SQL. It will build on that foundation and gradually have you written both simple and complex queries to help you select data from tables. You'll start to work with different types of data like strings and numbers and discuss methods to filter and pare down your results. You will create new tables and be able to move data into them. You will learn common operators and how to combine the data. You will use case statements

and concepts like data governance and profiling. You will discuss topics on data, and practice using real-world programming assignments. You will interpret the structure, meaning, and relationships in source data and use SQL as a professional to shape your data for targeted analysis purposes. So what are you waiting for? Register now!

Training Period: 3-Days

Targeted Groups:

SQL language is commonly used by those who are interested to be:
- Data engineers
- Data scientists
- Data analysts
- Data Architects
- Database Administrators
- ....Many Others

Course Objectives:

This course was designed to let the participants able to:
- ✓ Install SQL Server
- ✓ Identify a subset of data needed from a column or set of columns and write a SQL query to limit to those results.
- ✓ Use SQL commands to filter, sort, and summarize data.
- ✓ Create an analysis table from multiple queries using the UNION operator.
- ✓ Manipulate strings, dates, & numeric data using functions to integrate data from different sources into fields with the correct format for analysis.

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Course Content:

Unit 1: Introduction
- ✓ Introducing Databases
- ✓ Introducing SQL Language
- ✓ Installing SQL Server

Unit 2: SQL Essentials-1 - Basics
- ✓ Database manipulation
- ✓ Table Manipulation
  - o CRUD Concept
- ✓ Data Types
- ✓ Constraints

Unit 3: SQL Essentials-2 - Data Manipulation
- ✓ Data Selection
  - o Data source - From
  - o Filtration - Where
  - o Filtration - Order By
  - o Filtration - Group By
  - o Filtration - Having
- ✓ Data Modification
  - o Inserting
  - o Deleting
  - o Updating
  - o Merging
- ✓ Set Operator
  - o Union
  - o Intersect
  - o Difference/Except

Unit 4: Advanced SQL
- ✓ Nested Query
- ✓ View
- ✓ Join