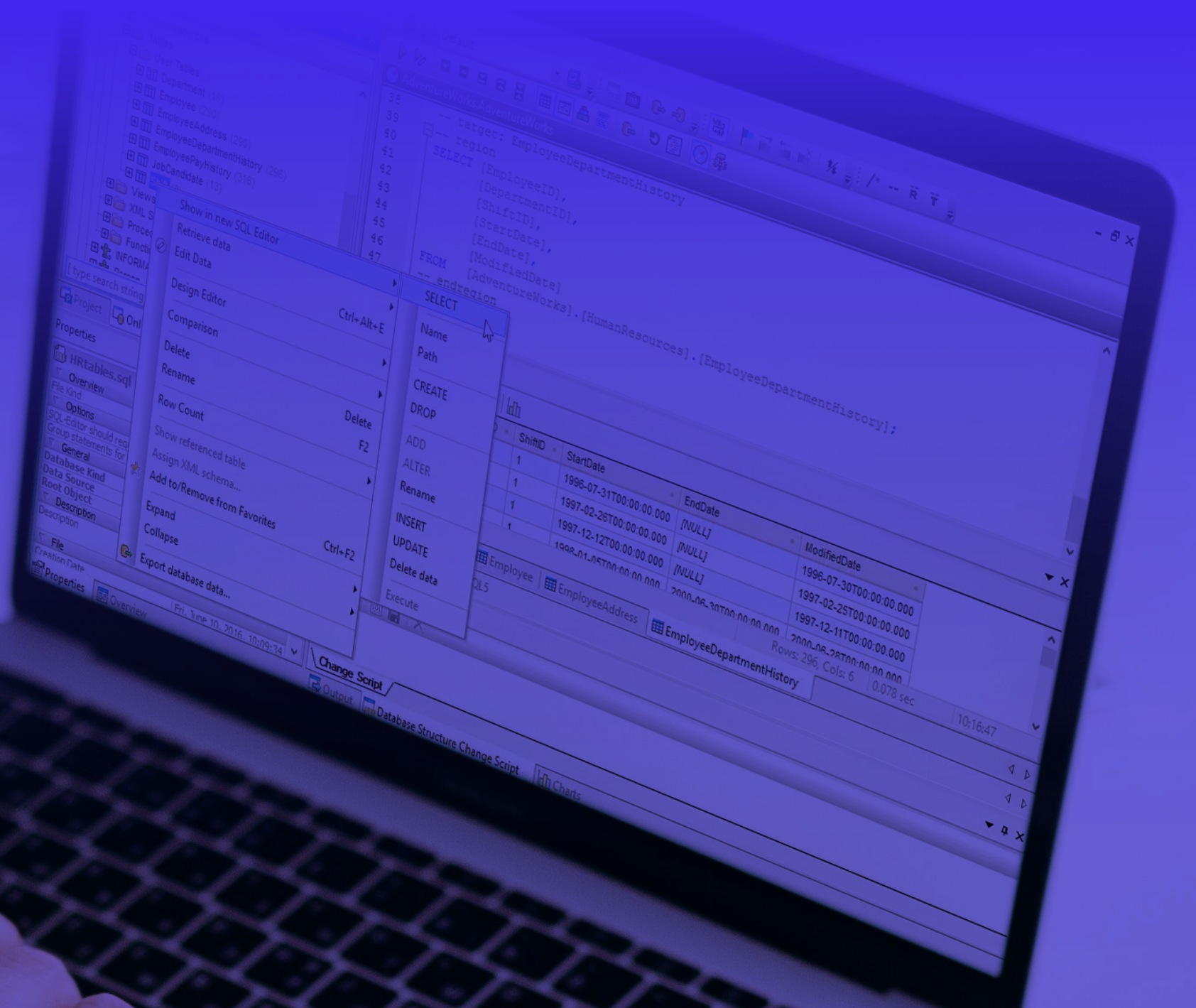




MENTORA
Analytics



SQL Server For Data Analyst



Introduction

SQL Server is a powerful and flexible tool for ETL processes, allowing you to create **sophisticated data analysis solutions**. It facilitates the **construction of dynamic data cubes, advanced analysis with real-time** tabular models, and the efficient execution of complex queries using languages like MDX and DAX, providing deep and detailed analysis.



Prerequisites

- No prior programming experience is required.
- Basic knowledge of Excel or data handling (is a plus, but not mandatory).

Objectives

- **Facilitate the extraction, transformation, and loading of data** from various sources, saving time and reducing errors.
- **Efficiently manage** massive and complex data.
- Connect to a wide **variety of data sources and systems**, allowing smooth and effective integration.

Methodology



Synchronous sessions
based on practical cases
(**real cases**).

Duration



The course has a
duration of **32
chronological hours
(40 academic hours)**.

Benefits



Internationally Valid
Certification.



Recognized Data and
Analytics Specialist
Instructors and
Consultants.



Support, guidance, and
development for
students.

Syllabus

Topic 1

SQL Language

- Create, modify, and delete tables.
- Create primary and foreign keys.
- Create relationships between tables.

Topic 2

Introduction to SQL Queries

- Basic structure of a query.
- Use of operators.
Queries: Like, between, in, not, and others.
- Top, Top With, DISTINCT.
- Order by.

Topic 3

SQL Functions

- Date functions.
- String functions.
- Numeric functions.
- Subqueries.

Topic 4

Advanced Queries

- Inner Join, Left Outer Join, Right Outer Join, Full Join.
- Data grouping and summaries.
- Aggregation functions: COUNT, SUM, MAX, MIN, AVG.
- Group By/Having.
- Union.

Topic 5

Procedures and Functions

- Create, modify, delete, and execute Stored Procedures.
- Create, modify, delete, and execute User-Defined Functions.
- Create, modify, delete, and execute Views.

Topic 6

T-SQL Language

- Programming structures.
- If...Else. - Case. While, Break, and Continue.
- Try...Catch.

Programming in TRANSACT:

Topic 1

- Variables
 - Local and global variables
 - Temporary table types in SQL Server
- CTE
- Table variable
- Temporary table
- Conditional Structure

Topic 2

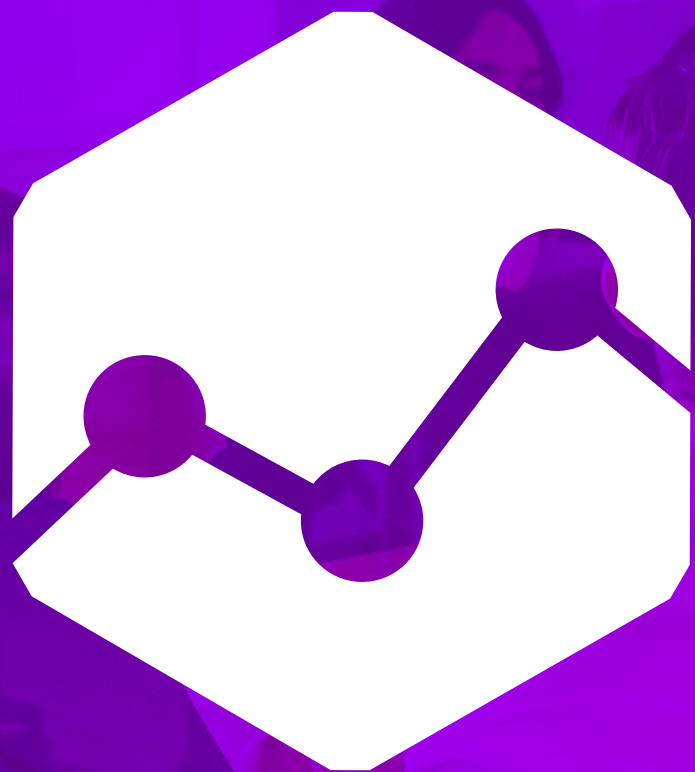
- Flow Functions
- Control structures if..else
- Control structure while
- try.catch

Topic 3

- IF-ELSE-WHILE
- User-Defined Functions
- Merge Into

Topic 4

- Stored Procedures
- Jobs with SQL Agent
- Sending email with SQL Database Mail



MENTORA
Analytics

phone number: (949) 456-0194.
info@mentora-analytics.com