Macrosoft

Vzdelávanie s trvalým efektom

DOCUMENT

Course syllabus

CATEGORY

SQL, Oracle, Access courses

TRAINING FORMAT

In Bratislava or online with a lecturer

PRICE EXCL. VAT

300,00 €

PRICE INCL. VAT

369,00 €

including 23 % VAT

Macrosoft školiace centrum
Aktuálne informácie na Macrosoft.sk

PDF SYLLABUS

SQL SERVER Working with a Database II.

Clear overview of course topics, training scope and key information.

The SQL SERVER Working with a Database II course is intended for graduates of the SQL SERVER Working with a Database course to deepen their knowledge of working with data, or for users who have experience with SQL and would like to expand their knowledge.

COURSE CONTENT

01 **Review of Knowledge from the Working with a Database I Course**

Review of basic commands - SELECT, CREATE, INSERT, UPDATE, DELETE, DROP

02 **Primary Keys, Foreign Keys and Data Normalization**

03 **Data Operations**

Nested queries and subqueries
Working with text functions - LTRIM, RTRIM, UPPER, LOWER, LEN
Cleaning and manipulation of text data - LEFT, RIGHT, SUBSTRING, REPLACE, CONCAT, CHARINDEX, REPLICATE, STUFF

04 **Data Types and Formats**

Conversion between data types - CONVERT, CAST, TRY_CAST, TRY_CONVERT
Working with date and time formats - GETDATE, DATEADD, DATEDIFF, FORMAT

05 **Joining and Combining Tables**

Types of JOIN operations - CROSS JOIN, SELF JOIN

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06 **Combining Results - UNION, UNION ALL, INTERSECT, EXCEPT**

07 **Temporary Tables and Storing Intermediate Results**

Common Table Expressions

08 **Local and Global Temporary Tables**

09 **Other SQL Functions**

Window functions - ROW_NUMBER RANK, DENSE_RANK, NTILE

10 **Creating a Custom Function**

11 **Advanced SQL Techniques**

Stored procedures, input parameters
DDL Trigger, DML Trigger
Transactions, explicit and implicit, COMMIT and ROLLBACK commands

12 **Types of Locks and Their Use**

13 **Query Optimization**

Optimization of JOIN and WHERE conditions

14 **Indexing, Simple and Composite Indexes**

15 **Discussion**

This document serves as an informational overview of the course syllabus. Current dates, venue and availability are listed at Macrosoft.sk.

https://www.macrosoft.sk/en/courses/sql-server-working-with-a-database-ii