

SQL-Jazyk 1

Writing Queries Using SQL

Description:

The three-day course aims to acquaint students with the basics of SQL. Its content is a description of language syntax, definition of data structures, queries, and data manipulation.

Students will be able to:

- Create and use queries in SQL
- Manipulate with data
- Define and work with database objects

Course requirements:

- Refresh, master, and learn new SQL knowledge

This course is intended for:

- Database administrators, developers, IT architects
- Users who will use SQL to query, report and analyze

Literature:

All participants will get internal materials.

Hardware:

Classrooms are equipped with high-performance computers with Internet access and the possibility of wireless connection.

Syllabus:

Module 1: Introduction to SQL

- SQL language
- DDL, DML, DCL statements
- Expressions, operators, variables

Module 2: SELECT

- Syntax
- DISTINCT
- Aliases

Module 3: Querying multiple tables

- Joining tables
- JOIN

Module 4: Sorting and filtering data

- ORDER BY
- WHERE

Module 5: Data types and built-in functions

- Data types
- Built-in functions
- Data conversions

Module 6: Grouping and aggregating data

- Aggregating functions
- GROUP BY

Module 7: Subqueries

- Scalar subqueries
- Multi-valued subqueries
- Correlated subqueries

Module 8: Database objects

- Views
- Functions
- Procedures

Module 9: Set operators

- UNION
- INTERSECT
- EXCEPT
- APPLY

Module 10: Pivoting

- PIVOT
- UNPIVOT

Module 11: DML, DDL

- INSERT
- UPDATE
- DELETE

Module 12: Transactions

- Using transactions
- START/BEGIN
- COMMIT
- ROLLBACK

Module 13: Query performance

- Queries
- Indexes
- Statistics
- Performance

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