

SQL-Jazyk 2

Writing Advanced Queries Using SQL

Description:

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

Students will be able to:

- Create and use advanced queries in SQL and manipulate with data.
- Define and work with advanced 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: Joining tables
- JOIN
 - SET operators
- #### Module 2: Grouping data
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- GROUP BY, HAVING
- ROLLUP, CUBE, GROUPING SETS

<h3>Module 3: Subqueries</h3>

- Scalar
- Multi-valued
- Correlated
- Derived tables

<h3>Module 4: Window functions</h3>

- OVER
- Offset, aggregated, ranking, distributed functions

<h3>Module 5: CTE</h3>

- CTE
- Recursive queries

<h3>Module 6: DML, DDL</h3>

- INSERT
- UPDATE
- DELETE
- CREATE
- ALTER
- DROP
- MERGE

<h3>Module 7: Triggers</h3>

- DML Triggers
- DDL Triggers

<h3>Module 8: Transactions, locks, hints</h3>

- Transactions
- Locks
- Hints

<h3>Module 9: FullText</h3>

- Setup FullText
- FullText functions

<h3>Module 10: Special data types and functions</h3>

- Data types
- Functions

