„SQL in MySQL database - basic operations"

Course description:

SQL in MySQL database training – basic operations is addressed to users who begin their adventure with databases. The training is from scratch. It is advisable for participants of the training to have basic knowledge of databases. It is advisable for the participants of the training to have some basic knowledge of databases. The course is led by an expert in data processing and reporting who has many years of experience.

During SQL in MySQL database training – basic operations you will learn how SQL syntax looks like. SQL in MySQL database course is from scratch through searching, aggregating, merging data from multiple tables, to creating reports and analyzing data. The training also includes an introduction to database design.

Training program:

1. **Relational database models**

2. **Relational operators**

3. **Characteristics of declarative SQL language**

4. **Syntax of SQL language**

5. **Language statements: DQL, DML, DDL, DCL**

6. **DQL language (Data Query Language)**
   - SELECT query,
   - Aliases of columns, tables,
   - Date support (DATE types, display functions, formatting)
   - Group functions,
   - Joining internal and external tables (JOIN clause)
   - UNION operator,
   - Nested subqueries (in WHERE clause, the table name, column name),
   - Correlated subqueries.

7. **DML language (Data Modification Language)**
    - Inserting rows (INSERT clause),
    - Inserting rows by query,
    - Changing the content of rows (UPDATE),
    - Deleting rows (DELETE).

8. **DDL language (Data Definition Language)**
    - Creating, altering and deleting tables (CREATE,ALTER,DROP),
    - Creating tables by query (CREATE TABLE .... AS SELECT...).

9. **CONSTRAINTS**
    - NULL and NOT NULL options,
    - CONSTRAINT clause,
    - ENUM type,
    - SET type,
    - PRIMARY KEY condition,
    - UNIQUE condition,
    - FOREIGN KEY condition,
    - DEFAULT clause.

10. **Transactions**

11. **COMMIT, ROLLBACK, SAVEPOINT command**

Methodology:
- PowerPoint mini lectures
- working on computers (each participant works on a separate computer)
- mini training videos

Organizational information:
Number of training hours: 14 hours / 2 days
Time of training 9:15-16:15
Place of training: Łódź, Piotrkowska 125 – KM Studio - trainings

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