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Vzdelávanie s trvalým efektom

DOCUMENT

Course syllabus

CATEGORY

SQL, Oracle, Access courses

TRAINING FORMAT

In Bratislava or online with a lecturer

PRICE EXCL. VAT

490,00 €

PRICE INCL. VAT

602,70 €

including 23 % VAT

PDF SYLLABUS

Oracle SQL Language Basics

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

SQL (Structured Query Language) is a computer language for manipulating data (DML - selection, insertion, modification and deletion), and for defining database objects (DDL). It also enables database administration and setting rights to objects (DCL). It is currently the most commonly used language of this type in relational database management systems.

COURSE CONTENT

01

Introduction to Relational Databases

Database terminology, principles of relational model design, normalization, database optimization, familiarization with Oracle 10g technology, tools and environment

02

Introduction to the SQL Language

SQL standards and Oracle SQL implementation, data types in Oracle databases

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03

DML - Working with Data

Data selection, basic syntax of the SELECT command, projection - selection of columns and use of column aliases, limiting selected records with the WHERE clause, use of BETWEEN, IN, IS NULL, LIKE operators, sorting records with the ORDER BY clause, eliminating duplicate rows (DISTINCT), creating expressions, use of arithmetic and text operators, grouping data (GROUP BY and HAVING clauses), nested SQL - single-row queries, multi-row queries (ALL, ANY, IN operators), correlated queries, use of pseudocolumns, selecting data from multiple tables in sequence (UNION, UNION ALL), intersection (INTERSECT) and difference (MINUS) of two tables, selecting data by inner (WHERE, INNER JOIN) and outer table join (LEFT, RIGHT and FULL OUTER JOIN), inserting data, direct data insertion into a table (INSERT), inserting data by selection from another table, checking uniqueness of inserted data, modifying data, modifying all rows and selected rows (UPDATE), updating with a constant value, function result, value derived from the original value, value derived from another column of the same table, or value from another table, deleting data, deleting all and selected rows (TRUNCATE, DELETE), deleting duplicate rows, use of functions, single-row functions (numeric functions, functions for working with text, date and time functions, conversion functions), aggregate functions, analytic functions, other functions

04

DDL - Creating and Modifying Database Structures

Creating (CREATE TABLE) and changing table structure (ALTER TABLE), creating and changing views (CREATE OR REPLACE VIEW), integrity constraints, materialized views, indexes, sequences, deleting objects (DROP)

05

Transaction Control

Committing transactions (COMMIT), rolling back changes (ROLLBACK), creating savepoints (SAVEPOINT)

06

DCL - Control of Database Objects

Managing rights to database objects (GRANT, REVOKE)

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/oracle-sql-language-basics