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Navicat Database Management

Manage, query, model, and synchronize databases with confidence using Navicat. - 2 days

FA-0332 · 2 days

Data & Analytics · Automation, RPA & Power Platform

Introduction

Navicat is a practical database management tool for professionals who work across different database platforms and need a faster, clearer way to manage data, build queries, design structures, and support day-to-day database operations. This 2-day training introduces participants to the essential features of Navicat, focusing on real workplace usage rather than academic theory.

The course is suitable for database users, developers, analysts, junior database administrators, and technical support teams who need to work efficiently with relational and selected NoSQL databases. The instructor has over 30 years of industry experience and will use real industry-demanded content to help participants understand how Navicat is applied in actual business and technical environments.

Learning outcomes

By the end of this training, participants will be able to:

- Understand the purpose and capabilities of Navicat.
- Create and manage database connections securely.
- Navigate database objects such as tables, views, indexes, users, and stored programs.
- Browse, search, filter, edit, import, and export data.
- Write, execute, save, and manage SQL queries.
- Use visual tools for query building and database design.
- Perform basic data transfer, backup, restore, and synchronization tasks.

- Use Navicat more confidently in development, reporting, administration, and support tasks.

Prerequisites

Participants should have:

- Basic knowledge of databases.
- Basic understanding of SQL.
- Familiarity with at least one database system such as MySQL, PostgreSQL, SQL Server, Oracle, SQLite, MariaDB, MongoDB, Redis, or Snowflake.
- General computer literacy.
- Access to a working Navicat installation and sample database environment.

Training outline

1. Introduction to Navicat

1. Overview of Navicat and its purpose
2. Supported database platforms
3. Common industry use cases
4. Navicat interface overview
5. Understanding database connections and workspaces

2. Setting Up and Managing Connections

1. Creating new database connections
2. Organizing connection profiles
3. Connecting to local and remote databases
4. Using secure connection options
5. Managing saved credentials
6. Troubleshooting connection issues

3. Navigating Database Objects

1. Understanding database structures
2. Working with databases, schemas, and tables
3. Viewing and managing views
4. Understanding indexes and keys

5. Viewing stored procedures, functions, and triggers
6. Managing users and roles at a basic level

4. Working with Tables and Data

1. Opening and browsing table data
2. Filtering and sorting records
3. Searching within data
4. Adding, editing, and deleting records
5. Understanding safe data editing practices
6. Handling NULL values, dates, and common data types

5. SQL Query Development

1. Using the query editor
2. Writing and running SQL statements
3. Saving and organizing queries
4. Formatting SQL scripts
5. Viewing and exporting query results
6. Understanding basic query errors
7. Safe execution of update and delete statements

6. Visual Query Building

1. Introduction to visual query tools
2. Selecting tables and fields
3. Creating joins visually
4. Applying filters and sorting
5. Reviewing generated SQL
6. Using visual tools to support SQL development

7. Importing and Exporting Data

1. Importing data from common file formats
2. Exporting table data and query results
3. Mapping fields during import
4. Handling data type and formatting issues

5. Validating imported and exported data

8. Data Transfer and Synchronization

1. Transferring data between databases
2. Understanding data synchronization
3. Understanding structure synchronization
4. Comparing source and target databases
5. Reviewing synchronization results
6. Safety considerations before synchronization

9. Backup, Restore, and Script Execution

1. Backup and restore concepts
2. Creating database dumps
3. Restoring from backup files
4. Running SQL scripts
5. Managing backup files responsibly
6. Verifying backup and restore results

10. Database Design and Modeling

1. Introduction to database modeling in Navicat
2. Creating simple models
3. Viewing table relationships
4. Reverse engineering existing databases
5. Generating database structures from models
6. Using models for documentation and communication

11. Automation and Productivity Features

1. Overview of automation tasks
2. Scheduling common operations
3. Automating import, export, backup, and query execution
4. Reviewing task logs
5. Introduction to AI-assisted features where available
6. Responsible use of productivity tools

Disclaimer: This training outline is intended as a professional guideline for course planning and delivery. The trainer reserves the right to amend, restructure, expand, reduce, or modify the content, sequence, depth, exercises, tools, or emphasis of the course at his discretion without prior notice, based on participant background, organizational requirements, software version changes, time constraints, or practical training needs.

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