



DATABASE CONCEPT AND DESIGN

Course ID : DB-01



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Duration: 2 Days

(12 Hours) 09:00 AM – 04:00 PM



Price: Call (Inhouse training only)

* (excluding VAT 7%)

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Data

This course provides in-depth training on relational database design, including the creation of ER-diagrams. It is ideal for individuals looking to build strong foundational skills in designing relational databases, supported by practical examples from variety of systems including inventory management, employee and payroll systems, registration systems, library systems, and other domain-specific applications tailored to participants' needs.

Objectives

1. Participants will be able to describe the capabilities and functions of databases.
2. Participants will be able to create and modify tables, as well as establish relationships between them.
3. Participants will be able to design databases effectively.

Target Audience

1. Individuals seeking foundational knowledge in relational database design.
2. Those preparing to study Microsoft Access, SQL Server, or other DBMS platforms.

Prerequisites

1. No programming experience is required.
2. An Interest in data management.
3. A Desire to learn systematic database design.

System Requirements

1. Windows 11 or Windows 10.
2. Microsoft Access, SQL Server, or other DBMS software.

TRAINING TOPICS

DAY 1 Morning Session 9:00 AM – 12:00 PM

1. Introduction to Database Systems

- What is a database?
- Definition of a Database Management System (DBMS)
- The importance of using a DBMS for effective management
- Overview of DBMS software available in the market

DAY 1 Afternoon Session 1:00 PM – 4:00 PM

2. Relational Database Model

- Concepts Database Model
- Principles of data integrity
- Introduction to Structured Query Language (SQL)

DAY 2 Morning Session 9:00 AM – 12:00 PM

3. Relational Data Analysis and Design

- What is an ER diagram?
- Analyzing data for ER diagram design
- Defining entities, attributes, and relationships, including interpretation
- Reducing data redundancy through normalization

4. Implementing ER Diagrams in Database Creation (Microsoft Access / SQL Server)

5. Examples and Case Studies in Database Design and Workshop

- Typing text, such as entering keywords into Google search fields
- Sending click commands to webpage elements
- Extracting text from web pages and using the data in workflows
- Case Study : Retrieving current times for various cities via Google search
- Case Study : Identifying the first search result from Google and saving the URL to Excel



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