Relational Databases & Data Modelling Overview

Cursusduur: 2 Dagen **Cursuscode: RDBO** **Trainingsmethode: Virtual Learning**

Beschrijving:

Relational Databases & Data Modelling Overview Course Overview

English - Please note this course is only available in English.
Nederlands - Let op: deze training is alleen in het Engels beschikbaar.
Français - Veuillez noter que ce cours est uniquement disponible en anglais.
The Relational Databases & Data Modelling Overview course is designed to give delegates practical experience i

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor)of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Doelgroep:

Who will the Course Benefit?

Developers moving into the area of relational databases who need an understanding of the principles and logic of the relational database; programmers who are to start programming in SQL and need to know the principles on which it is built; programmers who need to understand entity modelling and normalization; analysts needing a knowledge of entity modelling and entity relationship diagrams and any others who need to know the principles of relational analysis and data modelling but do not need a complete systems analysis course.

Doelstelling:

- Course Objectives
- The Relational Databases & Data Modelling Overview course provides an understanding of the structure of a RDBMS (Relational Database Management System) and the underlying principles of relational analysis and data modelling.

Vereiste kennis en vaardigheden:

- An understanding of Information Technology concepts and computer terms is required.

Vervolgcursussen:

Further Learning

- Introduction to SQL
- Introduction to SQL on Oracle
- Oracle SQL & PL/SQL Fundamentals
- Oracle SQL Fundamentals
- Introduction to MySQL
- Oracle SQL
- Introduction to MariaDB
- SQL for PostgreSQL
- Querying Microsoft SQL Server with Transact-SQL
- Microsoft SQL Server with Transact-SQL

Cursusinhoud:

Relational Databases ; Data Modelling Overview Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCTION TO RELATIONAL DATABASES

- The Database Approach
- Database Management Systems
- The function of a Database Management System
- The Processing Architecture
- The Schema Architecture
- The Storage Architecture
- An overview of Database System Development
- An overview of general database principles

Session 2: CONCEPTUAL DATA MODELS

- Overview of Entity Models
- Entities and how to identify them
- Attributes and how to identify them
- Relationships and their qualities
- Building an Entity Relationship Diagram
- Resolving many-to-many relationships
- Sub-type and Super-type Relationships
- Arc Relationships
- Recursive Relationships
- Constraints and Assumptions
- Normalisation to the First Normal Form (1NF)
- Normalisation to the Second Normal Form (2NF)
- Normalisation to the Third Normal Form (3NF)
- Exercises:
- Analysing a specification
- Creating an Entity Relationship Diagram

Session 2: CONCEPTUAL DATA MODELS (continued)

- Normalisation to the First Normal Form (1NF)
- Normalisation to the Second Normal Form (2NF)
- Normalisation to the Third Normal Form (3NF)
- Exercises: Data Normalisation producing table specifications and Entity Diagrams

Session 3: THE RELATIONAL MODEL

- Relational Structure
- Relational Terminology
- Domains
- A Relational schema
- Candidate keys and Primary Keys
- Foreign Keys
- Key Constraints
- Attribute Constraints
- Implementing Sub-type/Super-type Relationships
- Views
- Denormalisation using Pre-joined Tables
- Denormalisation using Derived Data
- An Introduction to Structured Query Language (SQL)
- Simple Queries
- Simple Updates of the Data
- Exercise: Data Modelling from an Invitation to Tender

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

info@globalknowledge.nl

www.globalknowledge.com/nl-nl/

Iepenhoeve 5, 3438 MR Nieuwegein