Relational Database Design

Category: Software Development & Programming | **Vendor:** Various

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Together with your trainer you will work out the basics, implementations and applications of relational database techniques and DWH structures

About This Course

Motivation

Basic terms and DB concepts

Data dictionary and meta databases

Data integrity

- Data consistency
- Data protection
- Data security
- Transactions

Overview: models

- Hierarchical model
- Network model
- Relational model
- Object-oriented models

Normalize

- From the 1st to the 3rd normal form
- BCNF, 4th, 5th normal form

Overview: Design Methods

- Objectives, principles of design methods
- Method according to Zehnder
- ERD from Chen

The Entity Relationship Diagram (ERD)

- Formation of entity sets and relationships between entity sets

- Normalizing an ERD and mapping the ERD to data structures
- Identification keys, foreign keys, global and local attributes

Definition of consistency conditions

- Inherent, external consistency conditions
- Classes of consistency conditions

Reproduction of transactions

Outlook, trend of DBMS and trends

- Distributed database structures
- Graph databases (NoSQL)
- Document databases (NoSQL)
- Typical cloud data structures

Who Should Attend

DB users who want to get into database creation. Users who want to optimize their queries. People who want to understand and evaluate databases.

Prerequisites & Entry Requirements

General Prerequisites:

Good SQL knowledge as in the course SQL Standard Intensive Training

Learning Outcomes

Upon successful completion of this course, participants will be able to:

You can understand database designs, query correctly and efficiently (with the appropriate SQL knowledge). You can design and create simpler databases.

Skills You Will Learn:

You can understand database designs, query correctly and efficiently (with the appropriate SQL knowledge). You can design and create simpler databases.

Frequently Asked Questions

Q: What delivery options are available for Relational Database Design?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Relational Database Design course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Relational Database Design training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Relational Database Design?

Yes, we provide corporate training, dedicated training, and closed classes for Relational Database Design. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Relational Database Design, SQL, SQL03

Q: Why choose Nexus Human for Relational Database Design?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Relational Database Design training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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