Database Design - A Modern Approach

Category: Software Development & Programming | **Vendor:** Logical Operations

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This course introduces you to a process for effectively planning and designing a functional, efficient database. Knowing how to plan a relational database is important to the success of the databases you create. Without planning, you cannot possibly know what the database needs to do, or even what information to include in the database. Planning a database is essential, and prevents the extra work of fixing data maintenance problems later on. The concepts are not specific to a particular software application and can be applied to any relational database management system.

About This Course

This course introduces you to a process for effectively planning and designing a functional, efficient database. Knowing how to plan a relational database is important to the success of the databases you create. Without planning, you cannot possibly know what the database needs to do, or even what information to include in the database. Planning a database is essential, and prevents the extra work of fixing data maintenance problems later on. The concepts are not specific to a particular software application and can be applied to any relational database management system.

Who Should Attend

This course is designed for students who need to learn database design essentials, typically in preparation for, or as a supplement to, a course on SQL such as SQL Querying: Fundamentals and courses on specific relational database platforms.

Learning Outcomes

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

In this course, you will perform steps to design a relational database, including gathering requirements, data modeling, and planning implementation.

You will:
- Follow an efficient process for designing a relational database
- Define the database conceptual model
- Define the database logical model
- Apply database normalization methods to improve the initial design of a database
- Complete the database design, including controls to ensure its referential integrity and data integrity

Detailed Course Outline

Getting Started with Relational Database Design

- Identify Database Components
- Identify Common Database Design Problems
- Follow a Database Design Process
- Gather Requirements

Defining the Database Conceptual Model

- Create the Conceptual Model
- Identify Entity Relationships

Defining the Database Logical Model

- Identify Columns
- Identify Primary Keys
- Identify and Diagram Relationships

Normalizing Data

- Avoid Common Database Design Errors
- Comply with Higher Normal Forms

Finalizing the Database Design

- Adapt the Physical Model for Different Systems
- Ensure Referential Integrity
- Ensure Data Integrity at the Column Level
- Ensure Data Integrity at the Table Level
- Design for the Cloud

Additional Course Details

Nexus Humans Database Design - A Modern Approach training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Database Design - A Modern Approach course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Database Design - A Modern Approach?

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 1-day Database Design - A Modern Approach course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Database Design - A Modern Approach training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Database Design - A Modern Approach?

Yes, we provide corporate training, dedicated training, and closed classes for Database Design - A Modern Approach. 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: Why choose Nexus Human for Database Design - A Modern Approach?

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 Database Design - A Modern Approach training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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