
Featured Workshop

Relational Database Design

Start Date: Thursday, March 1, 2011

Course Length: 1 Day

Course Description

At work, storing and accessing data are part of a person's day-to-day activities. One of the most efficient and powerful ways of managing data is by using relational databases. Information can be stored, linked, and managed using a simple relational database application and its associated tools. You have used databases to store and retrieve data. Now, you may want to plan and design your own database. A well-designed database allows easy maintenance and quick access of data. In this course, you will plan, design, and create a functional and efficient relational database. You can create effective database designs by applying relational database design techniques.

Course Objective: You will design and create a relational database.

Target Student: Individuals who are able to write simple queries or run queries that someone else has designed.

Prerequisites: Microsoft Access 2007 Level 1 course (recommended).

Delivery Method: Instructor-led, group-paced, classroom-delivery learning model with structured hands-on activities.

Performance-Based Objectives

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

- Analyze client requirements.
- Create a preliminary design.
- Implement the database design.
- Generate reports.
- Customize a database.

Course Content

Lesson 1: Analyzing Client Requirements

Topic 1A: Analyze Current Data Storage Systems

Topic 1B: Identify New Client Requirements

Topic 1C: Determine the Required Data Fields

Topic 1D: Group Fields into Tables

Topic 1E: Identify Key Fields

Lesson 2: Creating a Preliminary Design

Topic 2A: Create a Preliminary Entity Relationship Diagram

Topic 2B: Apply the First Normal Form

Topic 2C: Apply the Second Normal Form

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Topic 2D: Apply the Third Normal Form
Topic 2E: Apply the Higher Normal Forms
Topic 2F: Denormalize Tables
Topic 2G: Incorporate Client Feedback

Lesson 3: Implementing the Database Design

Topic 3A: Translate Business Rules into Constraints
Topic 3B: Create Tables
Topic 3C: Create Indexes

Lesson 4: Generating Reports

Topic 4A: Manipulate Data
Topic 4B: Generate Reports Using Conditions
Topic 4C: Generate Reports from Multiple Tables
Topic 4D: Generate Summary Reports
Topic 4E: Create Views

Lesson 5: Customizing a Database

Topic 5A: Modify Constraints
Topic 5B: Modify Fields
Topic 5C: Modify Tables

To Register

Call Deb Perreault at Apptius Computer Solutions Inc. Phone: 989-0202 ext. 111 or email: deb.perreault@apptius.com

Course Fee

\$ 445.00 plus 5% GST.

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