

# How to Analyze and Improve Business Data

*Instructor-Led, Web-Delivered Duration 2 Sessions*

## Overview

Using business data model to identify potential business problems that are caused by missing or improperly defined business data is the next step in the progression from data-as-a-problem to data-as-a-valuable-resource.

This on-line business analyst training workshop assumes you know how to draw business data models (entity/relationship diagrams). It is designed to give you a time-proven set of business analysis techniques, methods, and tricks to help you analyze an existing business data model, create a new business data model, and extract informational requirements essential to the success of your information technology projects.

**Note:** *This instructor-led course delivered in two virtual sessions via the Internet covers the same content as the second day of our 2-day course, "How to Model, Analyze, and Improve Business Data" which can be delivered live at your site.*

## Target Audience

Business Analysts	System Analysts
Data Administrators	Test Engineers
Data Analysts	
Requirements Definition Specialists	

## Learning Objectives

*Upon completion of this seminar, you will . . .*

- Analyze user views, (screens, reports, etc.) to modify a data model
- Modify an existing data model based on new requirements
- Evaluate a data model for full normalization and correctness
- Report data constraints that influence the physical data structures

## Outline

### 1 Creating a Data Model for the Future

#### Modifying Data Models

Creating a New System Data Model  
Exercise: Potential Changes to Data Models  
Quality Check  
Data Stability  
Exercise: Modifying the Project Resources Data Model  
Previous Data Model for Project Resources  
Modifying Diagrams and Forms  
Exercise: Modifying a Data Model and Forms System

As-Is Forms for the Invoicing System

### 2 Using a Data Model to Discover Requirements

#### Data Models as an Analysis Tool

Integrating Models (Conserving Data)  
Integrating Data Models  
Horizontal Balancing  
Data Design  
Sample Models  
Exercise: New Information Requirements  
Exercise: New User View Exercise

*Developed and presented by:*



Requirements Solutions Group, LLC  
3837 Northdale Blvd, Ste. 361  
Tampa, FL 33624  
***We Build Business Analysts™***

Telephone: **(813) 319-5851**  
Fax: (813) 864-0131  
E-mail: [training@requirementsolutions.com](mailto:training@requirementsolutions.com)  
Web: [www.requirementsolutions.com/](http://www.requirementsolutions.com/)

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Invoicing System Data Model  
Invoicing System Attributes  
Data Models vs. Databases  
Exercise: Summary

### **3 Considering the Physical Data Model**

#### **Data Constraints**

Constraining Factor

Performance Factors  
Performance Factors (Trade-Offs)  
Design Trade-Offs  
Performance Factors: Access & Frequency  
Performance Factors  
Data Volumes