

Data Analysis & Modelling (DAM)

2-day workshop

Data is the lifeblood of an organisation - from client information held in marketing and customer service applications to operational and competitive data in business intelligence and data warehouse systems. But with an ever increasing volume of information in today's world, business analysts and systems analysts need specialised data analysis and data modelling skills to design effective systems which deliver operational efficiencies and competitive advantage.

In this course you'll learn top-down business and application data modelling, how to analyse/normalise data and how to build third normal form data models. You'll learn how to use entities, attributes, keys, relationships and how to build a composite data model. The course provides practical training in the core skills needed to model data that reflects the needs of the business.

Part of the IRM family of business analysis courses, DAM is learn by doing... practical, hands-on, intensive... and fun!!

WHO WILL BENEFIT?

Systems developers - business analysts, systems analysts, analyst-programmers, data-base administrators and designers involved in the analysis, specification and development of computer-based systems.

COURSE OBJECTIVES

Delegates will have a good understanding of data modelling and will be able to develop data storage designs to suit their environment.

LEARNING OUTCOMES

On the successful completion of the course delegates will be able to:

- Develop a top-down business and application data model (Entity Relationship Model)
- Describe entities, attributes, keys and relationships
- Analyse and normalise data
- Build third normal form data models
- Build a composite data model
- Understand fourth and fifth normal forms

WHAT METHODS DO WE USE?

- Lectures supported by visual aids
- Class examples
- Syndicate case study work
- Small group sessions
- Presentation of syndicate findings
- Comprehensive delegate manual

WHAT OTHERS HAVE SAID...

"Excellent course giving all the essentially required tools for analysis & design"

Solution Design Architect, NAB

"Very useful course...can be applied to actual job"

Analyst Programmer, AXA

"A great help in refreshing the knowledge I had gained at university. It made it all make sense and fall into place"

Australian Taxation Office

"Well presented, meaningful and well structured. Excellent real life exercises"

Westpac

"Very useful for all types of IT people"

Attorney General's Department

"Extremely thorough"

Department of Employment and Workplace Relations

"Directly useful to my work"

Systems Engineer, AirServices Australia

"Good, clear details"

Business Analyst, Origin Energy

209/620 St Kilda Road
Melbourne, VIC 3004
Australia
ACN 007 219 589

Tel: (03) 9533 2300
Fax: (03) 9533 2400
Email: training@irm.com.au
Web: www.irm.com.au

Data Analysis & Modelling - Business Context

Data Analysis and Modelling teaches top-down business and application data modeling, how to analyse/normalise data and how to build third normal form data models.

It covers entities, attributes, keys, relationships and how to build a composite data model.

DAY 1

Introduction

Examples of data analysis; the application of data analysis during the project life cycle; the roles of analyst, designer and user during this activity.

Basic principles and terminology

The business analysis approach; cross checking and consolidation; global, application and transaction models; entities, attributes, relationships and normalisation.

Entity relationships

Relationship notation; exercise in mapping; simple and complex relationships; naming relationships and reasons for doing so; drawing an application data model from the results of normalisation.

DAY 2

Data analysis and normalisation

Fact finding and the identification of candidate data; recording data in the data dictionary; data dictionary notation; normalisation; examples of first, second, and third relations; normalisation exercise.

Global data model

Analysis of business rules and an exercise to draw a global data model; annotating the data model and checking with user management.

The composite data model

Composite and compound keys; key-only relations, combining the models to form one composite data model.

Fourth and fifth normal forms

Circumstances which may lead to data anomalies within key fields. Overview of transaction path analysis.

Practical Work

There are delegate and group exercises throughout the course so that theory is always backed up with examples and practical exercises.

What's different about Instructor-led training?

"Learn by doing" has long been recognised as the most effective way of teaching skills and techniques. The more complex the skills, the more effective instructor-led workshops become compared to self-paced, self-learning or lecture style teaching.

All IRM courses are practical workshops, led by experienced instructors. Each workshop is oriented around a fully worked case study or practical exercise where course delegates work in teams and individually to re-enforce the skills being taught.

One thing we guarantee – these are "roll your sleeves up" courses with an emphasis on doing, participation, interaction—and learning. Students have the opportunity to develop contacts from other organisations and to discuss and share common issues, problems and solutions.

For course dates and bookings:

Visit: www.irm.com.au Phone: 03 9533 2300 Email: training@irm.com.au