

Course 201. 3 days

## Data Warehousing Fundamentals

Data warehousing is revolutionising the way businesses in a wide variety of industries perform analysis and make strategic decisions. This course is designed to equip delegates with the fundamentals and techniques required to build a comprehensive data warehouse.



### What you will learn

You will learn interesting concepts, techniques and follow the full lifecycle from the initial project planning stage all the way through to the final rollout and maintenance.

### Course benefits

The data warehouse continues to be one of the most organisationally complex and technically interesting projects in Information Technology and we believe the market today requires professionals to be multi talented and strategically positioned for the growth in Data warehousing and Dimensional Modelling currently happening in corporations. This course will prepare you for the implementation of a successful data warehouse.

### Who should attend?

This course is valuable for all those involved in major roles on a data warehouse project, from project managers to DBAs to data modellers to application developers. It is also ideal for IT professionals from various backgrounds including Information technology, who plan to cross train into Data warehousing and Dimensional modelling to enhance their careers.

### Course content

#### Data Warehousing Fundamentals

- Concepts and definitions
- Data Warehousing framework

#### Project Planning

- Scoping and risk assessment
- Data warehouse project team roles and responsibilities
- Project plan development and maintenance

#### Dimensional Modelling

- Definition of dimensional modelling
- Definition of Fact and dimension tables
- 4-step process for designing dimensional models
- De-normalizing dimension hierarchies

- Surrogate keys
- Factless fact tables
- Degenerate dimensions
- Conforming dimensions
- Slowing changing dimension techniques
- Types of Fact tables
- Large dimension design considerations
- Multi-valued dimension attributes

#### Physical Configuration Options

- Data Warehouse vs. Data Marts
- Standalone Data Marts

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## Data Warehousing Fundamentals

### Physical database design

- Overview of Technical Architecture
- Architecture & Infrastructure
- Planning for growth
- Data Models and Levels of Detail
- Common Components and Services
- Back Room & Front Room
- Staging area considerations
- Data warehouse user types
- Operational Data Store (ODS)
- Aggregation navigation and strategy
- Index types and guidelines
- Data management
- Basic extract, transformation and load techniques
- Surrogate key creation and maintenance
- Fact table extract issues
- Building aggregates

### Product Selection

- Reporting
- Meta data repository

### Deployment

- Speeding up the load cycle
- Integrating data from multiple sources
- Data quality and data cleansing
- Deployment release process—alpha, beta, roll-out

### On-going Maintenance

- Training and support approaches
- User support
- Documentation and the web
- On-going system maintenance

Course **Cost**  
£975 per delegate

**BRING THIS COURSE ON SITE**

To train at your location, call **+44 (0) 870 803 1416** for details.