



Data Warehouse Standards



Course Duration

0.5
Day

This course will provide delegates with a set of standards to use when developing a data warehouse which incorporate best practice. These standards cover all the various aspects that may be involved in the development of a data warehouse, including modern applications that may be utilised.

The adoption of a set of standards will speed up the development process by providing a development framework and will make maintenance of the data warehouse much quicker and more efficient.

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On completion, delegates will be able to:

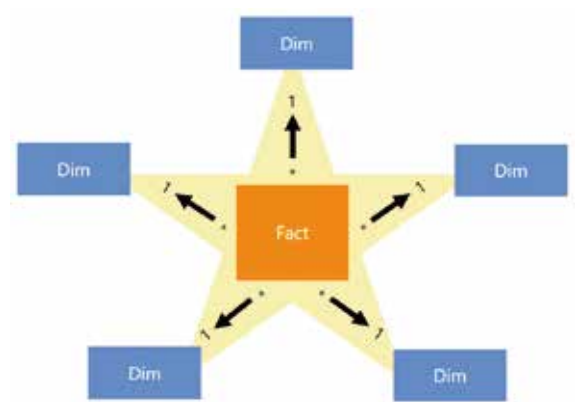
- Use a set of standards when developing a data warehouse which incorporate best practice.
- Develop data warehouses using industry-recognised best practice and techniques which are tried and tested to ensure the data warehouse produced is future-proof and adheres to current methodologies.

Who should attend?

IT professionals who will be involved in the design, build or maintenance of a data mart or data warehouse and need to understand the techniques involved in its design.

Prerequisites

A basic understanding of dimensional modelling and data warehouse design together with the various stages incorporated within the Extract, Transform and Load (ETL) process used to build a data warehouse.



Course Duration

0.5 day

Practical work

Whilst the course is largely a theoretical course, the key learning points contained within it are re-enforced within a number of workshops

Course Key Learning Points

- **Database Naming Conventions**
 - The naming conventions for various database objects: databases; tables; columns; primary keys; indices; views and stored procedures.
- **Database Development and Coding Methodologies**
 - Standard notation for stored procedure code.
 - Use of SQL Cursors, temporary tables, indices and linked servers.

Related and follow-on courses

Azure Data Warehouse Resources

Course Content

See below

▪ Data Warehouse Design

- What is the best type of dimensionally-modelled schema for a data warehouse?
- The ideal granularity of a data warehouse
- The importance of conformant dimensions which are rich in attributes and have an artificial key.
- The design of fact tables containing foreign keys and the different types of measures.

▪ Design of the ETL Process

- What should happen in the three stages of an ETL load: Extracting the source data; Transforming the extracted data; Loading the data into the data warehouse?
- The steps within the Transformation stage.
- What is a Delta Load and how is it controlled?
- How to log the various ETL stages?
- How to apply source system control?

Acuma Education

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