



Data Warehousing



Corporate Trainer's Profile

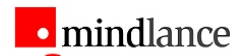
Corporate Trainers are having the experience of 4 to 12 years in development , working with TOP CMM level 5 companies (Project Leader /Project Manager) qualified from NIT/IIT/IIM and work exp in USA and UK.



CMM (Capability Maturity Model) level Project Standard:-

The Capability Maturity Model (CMM) is a method for evaluating the maturity of organizations on a scale of 1 to 5. Get the Opportunities to work on Client Projects Of US/UK, which follow the all standard of CMM level 5 Company.

Projects



SUMMARY: PLATFORM:

Multi-platform: DB2 UDB for z/OS & OS/390, DB2 UDB for Linux/UNIX/Windows, Oracle and SQL Server.

This DW terminologies and concepts course addresses the following topics:

What is data warehousing?

What is a data mart?

What are the data modelling options?

What are the terms and concepts specific to data warehousing and OLAP design?

What are some common statistics, analytic and OLAP SQL queries?

AUDIENCE: IT developers, database administrators or anyone responsible for a data warehouse or related discipline.

PREREQUISITES: At least six (6) months of IT developer and/or technical experience.

DURATION: 1 day

OBJECTIVES: Upon completion of this course, the participant should be conversant with terms and concepts as these relate to a data warehouse using both star and snowflake schemas. And the delegate should understand the implication of such terms as cubes, dimensions, attributes, joins, hierarchies, measures, etc.

COURSE CONTENT: I.DATA WAREHOUSE OVERVIEW

Overview

Typical uses

Architecture

II.DEFINITION, ARCHITECTURE AND CONCEPTS

Enterprise Data Model

Operational vs. historical data

Extract Transform Load (ETL)

Metadata

Data warehouse vs. data mart

Data mining

OLAP vs. OLTP

Logical design vs. physical design

Normalization vs. denormalization

Referential constraints

III.DATA MODELLING OPTIONS & OVERVIEW

Entity model

Star schema

Snowflake schema

IV.MULTIDIMENSIONAL DESIGN

Overview

Metadata properties

- Star schema
- Snowflake schema
- Cube
- Measures and facts
- Attributes and relationships
- Dimension
- Hierarchies
- Joins
- Summary tables and aggregation (i.e., materialized views)

V.IMPLEMENTATION OPTIONS

- Overview
- Top down
- Bottom up
- Sizing
- Cleaning
- Populating the data warehouse

VI.PHYSICAL DESIGN CONSIDERATIONS

- Denormalization
- Index choices
- Data placement
- Free space
- Summary tables
- Data compression

VII.DATA WAREHOUSE PERFORMANCE DESIGN

- Large concurrent reports
- Short running queries
- Long running queries
- On-line utilities
- Partitioning and parallelism (e.g., LOADs)
- Table spaces and buffer pools

VIII.INTRODUCTION TO STATISTICS, ANALYTIC AND OLAP SQL QUERIES

- AVG
- CORRELATION
- COUNT
- COUNT_BIG
- CONVARIANCE
- MAX
- RAND
- SUM
- VARIANCE

- Regression function
- GROUPING, ROLLUP & CUBE

IX.INTRODUCTION TO DW GUI TOOLS