Data Warehousing Concepts

Technology Lifecycle

Basics of Data Warehouse
- ➢ Features & Advantages
- ➢ OLTP Vs. OLAP
- ➢ Data Warehouse Architecture
- ➢ Data Mart
- ➢ Applications of Data warehouse & marts
- ➢ Data Warehouse Approaches

Dimensional Modelling
- ➢ Data Modelling vs. Dimensional Modelling
- ➢ Dimension & Fact Tables
- ➢ Types of Dimensions & Facts
- ➢ Slowly changing Dimensions (Type I, II, III)
- ➢ Surrogate Key Generation
- ➢ Schema Design – Star, SnowFlake, Fact Constellation

ETL & Metadata
- ➢ ETL Architecture
- ➢ Need for ETL Tool
- ➢ ETL Tools Available in market
- ➢ Metadata
- ➢ Metadata Warehouse (MDW)

Data Mining
- ➢ Knowledge discovery process
- ➢ Need & use of data mining
- ➢ Data Mining Operations
- ➢ Data Mining Products

Business Intelligence
- ➢ Need for Business Intelligence
- ➢ BI Tools Available in market