

Key to Data warehousing

Concepts

Introduction

OLTP Databases

OLAP System/Decision Support Systems

ROLAP

MOLAP

MOLAP Vs ROLAP

HOLAP

Data Warehousing

Subject Oriented

Integrated

Non Volatile

Time Variant

Data Warehousing Life Cycle

Data Cleaning

Extraction, Transformation and Loading

Meta Data

Data Marts

Multi Dimensional Cubes

Business Intelligence

Data Mining/ Knowledge Discovery in Databases

Drill up & Drill Down

Slicing & Dicing

Introduction to SQL /PLSQL

Data Warehousing Modeling

Logical Modeling

Data Warehouse Tables

Fact or Fact Tables

Dimension Tables

Data Warehouse Columns

Dimensions

Details

Measures

Data Warehouse Issues

Critical Columns

Surrogate Columns

Data warehouse Schema

Star Schema

Snowflake Schema

Fact Constellation/ Galaxy Schema/Multi-Star Schema

Physical Modeling

- Table spaces

- Tables and Partitioned Tables

- Views

- Integrity Constraints

- Indexes and partitioned Tables

- Materialized Views

- Dimensions

Hardware and I/O Considerations

- Raid 0 – Striping

- Raid1- mirroring

- Raid 0 + 1 – Striping and Mirroring

Parallelism

Partitioning

- Partitioning Methods

- Range Partitioning

- Hash Partitioning

- List Partitioning

- Composite Partitioning

- Index Partitioning

Indexes

- Bitmap Indexes

- B-Tree Indexes

- Materialized Views