



Introduction to Data Warehousing

- What is Data Warehousing?
- Who needs Data Warehouse?
- Why Data Warehouse is required?
- What is difference between Database & Data Warehouse?
- Types of systems

1 .OLTP

2. OLAP

- Maintenance of Data Warehouse
- Data Warehousing Life Cycle



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Data Warehouse Architecture

- Source
- Integration Layer
- Staging Area
- Targets
- ODS

Different types of Data Warehouse Approaches



1. **Top-Down Approach**
2. **Bottom-Down Approach**
3. **Difference between Top-Down & Bottom-Down Approach**
4. **Definition of Data Mart**
5. **Different types of Data marts**
6. **Difference between Data mart & Data warehouse**

Data Modelling



- **What is Data Modelling?**
- **Different types of Data Model ling**
- **What is Dimension?**
 1. **E-R Modelling**
 2. **Dimensional Modelling**
- **Different types of Dimensional Modelling**
 1. **Star Schema**
 2. **Snow flake schema**
 3. **Galaxy schema**
- **What is Fact?**



- **What is Granularity?**
- **Types of fact?**
 1. **Additive fact**
 2. **Semi additive fact**
 3. **Non additive fact**
 4. **Fact less Fact Table**

- **Types of Dimensions?**
 1. **Confirmed Dimension**
 2. **Junk Dimension**
 3. **Dirty Dimension**
 4. **Degenerative Dimension**

Introduction To Informatica

- **Introduction to Informatica**
- **Architecture of Informatica**
- **Informatica Client tools**
 1. **Informatica power centre Repository**
 2. **Informatica power centre Designer**
 3. **Informatica power centre WORKFLOW DESIGNER**
 4. **Informatica power centre WORKFLOW MONITOR**
- **ODBC Connections of Informatica**



Power centre Designer Tools

- 1. Source Analyser**
- 2. Target Designer**
- 3. Transformation Developer**
- 4. Mapping Designer**
- 5. Mapper Designer**

Types of Transformations

- 1. Source Qualifier Transformation**
- 2. Filter Transformation**
- 3. Joiner Transformation**
- 4. Expression Transformation**
- 5. Sorter Transformation**
- 6. Aggregator Transformation**
- 7. Rank Transformation**
- 8. Union Transformation**
- 9. Router Transformation**
- 10. Sequence Generator**
- 11. Lookup Transformation**
- 12. Update strategy Transformation**
- 13. Normaliser Transformation**





14. Stored Procedure Transformation

15. Transaction Control Transformation

Implementation of Slowly Changing Dimensions (SCD)

1. Implementing SCD TYPE-1
2. Implementing SCD Type-2
3. Implementing SCD Type-3

Informatica Workflow Manager

1. Task
2. Workflow
3. Worklet
4. Workflow Task

- Scheduling Workflows
- Batch Processing

Informatica Advanced Topics

- Implementing Mapplet
- User-Defined Functions



- **Debugging**
- **Mapping Parameters**

- **Mapping Variables**
- **Cache**
- **Target Load Plan**
- **Implementing Worklet**
- **Session Properties**
- **Test Cases**
- **Running the workflow By using PMCMD & PMREP**
- **Conversion of STRINGS to Date Data type**
- **Link-Conditions**

