INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block, Infosoft It solutions,
Software Training & Development Institute, +91 - 9059683947 | +91 - 9182540872

ETL Course

DWH Data Ware Housing Concepts

- What is Data Warehouse?
- Need of Data Warehouse
- Introduction to OLTP, ETL and OLAP Systems
- Difference between OLTP and OLAP
- Data Warehouse Architecture
- Data Marts
- ODS [Operational Data Store]
- Dimensional Modelling
- Difference between relation and dimensional modelling
- Star Schema and Snowflake Schema
- What is fact table
- What is Dimension table
- Normalization and De-Normalization

ETL Testing

- ETL architecture.
- What is ETL and importance of ETL testing
- How DWH ETL Testing is different from the Application Testing

• SDLC/STLC in the ETL Projects (ex: V Model, Water fall model)

Challenges in DWH ETL Testing compare to other testing

- Incompatible and duplicate data
- Loss of data during ETL process
- Testers have no privileges to execute ETL jobs by their own
- Volume and complexity of data is very huge
- Fault in business process and procedures
- Trouble acquiring and building test data

ETL Testing Work flow activities involved

- Analyze and interpret business requirements/ workflows to Create estimations
- Approve requirements and prepare the Test plan for the system testing
- Prepare the test cases with the help of design documents provided by the
- developer team
- Execute system testing and integration testing
- Best practices to Create quality documentations (Test plans, Test Scripts and Test closure summaries)
- How to detect the bugs in the ETL testing
- How to report the bugs in the ETL testing
- How to co-ordinate with developer team for resolving the defects

Types of ETL Testing

- Data completeness
- Data transformation
- Data quality

- Performance and scalability
- Integration testing
- User-acceptance testing
- SQL Queries for ETL Testing
- Incremental load testing
- Initial Load / Full load testing

Different ETL tools available in the market

- Informatica
- Ab Initio
- IBM Data stage

Power Center Components

- Designer
- Repository Manager
- Workflow Manager
- Workflow Monitor
- Power Center Admin Console

Informatica Concepts and Overview

• Informatica Architecture

Sources

- Working with relational Sources
- Working with Flat Files

Targets

• Working with Relational Targets

Working with Flat file Targets

Transformations – Active and Passive Transformations

- Expression
- Lookup –Different types of lookup Caches
- Sequence Generator
- Filter
- Joiner
- Sorter
- Rank
- Router
- Aggregator
- Source Qualifer
- Update Strategy
- Normalizer
- Union
- Stored Procedure
- Slowly Changing Dimension
- SCD Type1
- SCD Type2 Date, Flag and Version
- SCD Type3

Workflow Manger

- Creating Reusable tasks
- Workflows, Worklets & Sessions
- Tasks
- Indirect Loading

- Constraint based load ordering
- Target Load plan
- Worklet ,Mapplet ,Resuable transformation
- Migration ?ML migration and Folder Copy
- Scheduling Workflow
- Parameter and variables
- XML Source, Target and Transformations

Performance Tuning

- Pipeline Partition
- Dynamic Partition
- Pushdown optimization
- Preparation of Test Cases
- Executing Test case
- Preparing Sample data
- Data validation in Source and target
- Load and performance testing
- Unit testing Procedures
- Error handling procedures