

## **ETL Testing Syllabus**

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Note: Informatica as an ETL tool is most important aspect of ETL Testing training. We have added Informatica tool training in ETL Testing. You will learn ETL development and testing also in this course. For every part of ETL development, you will learn how to do testing.

### **ETL/Data-warehousing Testing**

- ETL Testing VS Manual Testing
  - Similarities and Differences
  - Advantages of ETL testing
  - Requirement of ETL tester
  - Responsibility of ETL tester
  - ETL testing methodology in Industry
  
- Datawarehousing and ETL in Testing perspective
  - Datawarehousing concepts
  - ETL(Informatica) concepts
  - Datawarehousing testing
  - ETL testing
  
- SQL in ETL Testing perspective
  - SQL concepts
  - Special SQL commands for ETL testing

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- Special SQL queries for ETL testing
- SQL query tuning
- Unix in ETL Testing perspective
  - Unix concepts
  - Unix commands for ETL testing
  - Using Unix for ETL testing
- Documentation
  - BR document
  - SR document
  - DA specification document
  - Test plan preparation
  - Test Bed preparation
  - Test summary and Status Report
- ETL testing specifications
  - Test data creation strategy
  - Test case Design
    1. Column Level
    2. Scenario Based
    3. Code Integration related test cases
    4. Functionality based test cases

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- 5. Extract based test cases
  - Extract Testing
  - Load testing
  - RTM creation
  - Purpose of Training
  - Types of Testing
  - Unit Testing
  - System Testing
  - Unit Acceptance Testing
  - Production Testing
  - Regression Testing
  - White Box Testing
  - Black Box Testing
  - Manual Testing
  - Automation Testing

## INFORMATICA/DATAWAREHOUSING Syllabus

### Administrator Guide:

- Understanding Domains
  - Using Administration Console • Managing the Domain
  - Managing Users and Groups
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- Managing Privileges and Roles
- Creating and Configuring the Repository Services
- Managing the Repository
- Creating and Configuring Integration Services
  - Enabling and Disabling the Integration Services
- Integration Services Architecture
- Managing License

### **Advanced Workflow Guide:**

- Stopping and Aborting
  - Error Handling
  - Stopping and Aborting Workflows
- Concurrent Workflows
- Workflow Variables
- Parameter and variables in Sessions
- Parameter File
- Session Caches
- Incremental Aggregation
- Session Log Interface

### **Designer Guide:**

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- Using the Designer
- Working with Sources
  - Working with Relational Sources
- Working with Flat Files
  - Importing Flat Files
  - Formatting Flat Files Column
- Working with Targets
- Mappings
- Mapping Parameters and Variables
- Working with User-Defined Functions
- Using Mapping Wizard
- Naming Conventions

### **Performance Tuning Guide:**

- Performance Tuning Overview
- Bottlenecks
- System Bottleneck

### **Repository Guide:**

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- Understanding the Repository
- Using Repository Manager
- Folders
- Managing Object Permissions
- Working with Versioned Objects
- Exporting and Importing Objects
- Copying Objects

### **Transformation Guide:**

- Working with Transformations
  - Configuring Transformations
  - Working with Ports
  - Working with Expressions
  - Reusable Transformations
- Aggregator Transformation
- Custom Transformation
- Expression Transformation
- External Transformation
- Filter Transformation
- Joiner Transformation

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- Java Transformation
- Lookup Transformation
- Lookup Caches
- Normalizer Transformation
- Rank Transformation
- Router Transformation
- Sequence Generator Transformation
- Sorter Transformation
- Source Qualifier Transformation
- SQL Transformation
- Stored Procedure Transformation
- Transaction Control Transformation
- Union Transformation
- Update Strategy Transformation

### **Transformation Language Reference:**

- The Transformation Language
- Constants
- Operators
- Variables

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- Dates
- Functions
- Creating Custom Function

### **Workflow Basics Guide:**

- Workflow Manager
- Workflow and Worklets
- Sessions
  - Creating a Session Task
  - Editing a Session
  - Pre- and Post- Session Commands
- Session Configuration Objects
- Tasks
- Working with Flat Sources
  - Targets
    - Configuring Targets in a Session
    - Working with Relational Targets
    - Working with File Targets
    - Reject Files
- Validation



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- Sending Email
  - Working with Email Tasks
  - Working with Post-Session Email
- Workflow Monitor
  - Using Workflow Monitor
  - Customizing Workflow Monitor Options
  - Working with Tasks and Workflows
  - Using Gantt Chart View and Task View
- Workflow Monitor Details
  - Integration Services Properties
  - Workflow Run Properties
- Worklet Run Properties
  - Session Task Run Properties
  - Performance Details
- Session and Workflow Logs

Note: Lab sessions for all the points mentioned above will be taken.

## Data warehousing Syllabus

- Evolution of Datawarehousing - History

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- The need of Datawarehousing
- Why Datawarehousing
- What is Datawarehousing - The Definition
  - Subject -Oriented
  - Integrated
  - Non - Volatile
  - Time Varying
- Datawarehousing Architecture
  - Data Source Layer
  - Data Extraction Layer
  - Staging Layer
  - ETL Layer
  - Data Logic Layer
  - Data Storage Layer
  - Data Presentation Layer
  - Metadata Layer
  - System Operation Layer ·

### Dimension table

- Fact table
  - Additive Facts

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- Semi Additive Facts
- Non - Additive Fact
- Cumulative
- Snapshot
- Attribute
- Hierarchy
- Types of Schema
  - Star Schema
  - Snow Flake Schema
  - Fact Constellation Schema
- Slow Changing Dimension
  - SCD1 - Advantages/ Disadvantages
  - SCD2 - Advantages/ Disadvantages
  - SCD3 - Advantages/ Disadvantages
- OLAP and OLTP
  - Difference between OLAP and OLTP
  - Types Of OLAP
    - Multi-Dimensional (MOLAP)
    - Relational(ROLAP)
    - Hybrid(HOLAP)

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