

ETL Testing Training Course Content

CHAPTER 1: DATA WAREHOUSING

- What is Data warehousing?
- Why Data warehousing?
- Purpose of Data warehousing?
- Architecture of Data warehousing?
- Overview of OLTP, ETL and OLAP Systems
- Data marts Introduction
- Operational Data Store – Overview
- What is Dimensional modelling?
- Difference between relational and dimensional modelling
- Star schema, snowflake schema and fact constellations schema – Overview
- Fact and Dimensional tables
- What is Normalization and De-Normalization
- Types of SCD

CHAPTER 2: ETL TESTING – DATA WAREHOUSE TESTING

- Overview of ETL Architecture
- What is ETL?
- Importance of ETL testing?
- Differences between ETL testing and manual, automation testing
- SDLC / STLC
- Exploring the following Challenges in DWH testing compared to other testing
 - Deduct Incompatible and duplicate data
 - Handling Loss of Data during ETL process
 - Finding the Volume and Complexity of data
- Workflow activities of ETL testing
 - Analyze and explore business requirements.
 - Create workflow for estimations
 - How to prepare the test cases with the help of design documents which is provided by the development team.
 - Evaluate system testing and integration testing
 - Find / report bugs in ETL testing
- Types of ETL testing

- Data Completeness
- Data Transformations
- Data Quality
- Performance and Scalability Testing
- Integration testing
- SQL Queries for perform ETL testing
- Incremental load testing
- Initial load testing
- Full load testing
- What are the different tools available in the market?
- Overview of Informatica, Abinitio, Datastage
- List of Power center components
 - Designer
 - Repository Manager
 - Workflow Manager
 - Workflow Monitor
- How to Mapping document?
- How to prepare test cases?
- How to execute test cases?
- Overview of Mapplet, Worklet
- What is Regression Testing
- How to prepare Test Case template?

CHAPTER 3: SQL

- Introduction of SQL
- Structure of SQL
- Select, Insert, Update, Delete, drop, truncate, filter, alter, Where, Group By, between, IN, having, order by commands.
- Perform Arithmetic, comparison, logical and Range operators
- How to use "IN / NOT IN, Set" Operators?
- What is Union, Union all, Intersect?
- List of Join queries available in SQL
 - Simple Join
 - Equi join
 - Self Join
 - Inner Join
 - Outer Join
 - Left outer Join
 - Right Outer Join
 - Full Outer Join
 - Subqueries

- Nested Subqueries
- Constraints & Aggregate functions
- Rank and Dense Rank

Contact Info:



+91 9884412301 | +91 9884312236



Know more about [ETL Testing](#)



info@credosystemz.com



New # 30, Old # 16A, Third Main Road,
Rajalakshmi Nagar, Velachery, Chennai
(Opp. to MuruganKalyanaMandapam)

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