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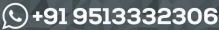
ETL Testing

Quick Contact

Second Floor and Third Floor, 5/3 BEML Layout, Varathur Main Road, Kundalahalli Gate, Bengaluru, Karnataka 560066

www.traininginbangalore.com

info@tibacademy.com

+91 9513332306

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

- DataWarehouseArchitecture

- 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

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 o 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

Workflow Manger

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

Session

Decision task

Control Task

Event wait task

Timer task

- Monitoring workflows and debugging errors

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 procedure.

Assessments

- **Objective Assessments**

  -- Syntactical based

  -- Scenario based

  Note: At least 2 objective based assessments in each module

- **Hands On – Practical Assessments**

  -- Scenario based

  Note: At least 2 Hands on assessments in each module

Assignments

- **Hands On – Practical Assignments**

  Note: At least 4 Hands on assignments in each module

Tasks – Home Work

- **Regular tasks on each module**

  Note: Tasks are focused more to improve self learning

Resume Support & Interview Preparation

- **Work on one or two mini projects.**

- **Discuss and convert the current working project into ETL-Testing project to add in resume & to explain ETL-Testing experience in interviews.**