ETL/DWH/BI TESTING COURSE CONTENT

SQL - MS SQL SERVER - Hand's on

- ✓ Introduction to SQL
    - ➢ SQL Server Installation & High level overview
- ✓ Hands on Exercises on below topics (**200 SQL Queries**)
    - ➢ DDL & DML Statements
    - ➢ SQL Operators, Union, Intersect & Except
    - ➢ Integrity Constraints & Built in Functions
    - ➢ Case Statements & Sub Queries
    - ➢ Group By, Having & Order by Clauses
    - ➢ Joins (Inner Join, Outer Joins & Self Join)
    - ➢ Views, Stored Procedures & Functions

Data Warehousing Concepts

- ✓ Introduction to Data Warehouse
- ✓ Difference between Database & DWH
- ✓ What is Dimensional Modeling and how it is different from ER Modeling
- ✓ What is Dimension & Fact table
- ✓ Star Schema Model vs. Snow Flake Schema Model

DWH: Hands on DIM & FACT tables

- ✓ How to Design/Create DIM & FACT tables based on Source system
- ✓ Hand's on Dimension & Fact tables data loading (Multiple exercises)

SCD (Slowly Changing Dimension

- ✓ What is SCD (Slowly Changing Dimension?
- ✓ Hands on Exercise (Real time Scenario's)
    - ➢ SCD Type 1
    - ➢ SCD Type 2
    - ➢ SCD Type 3

ETL Testing: Introduction & Hand's on

- ✓ Different types of ETL Testing Projects in Real world & Popular ETL tools
- ✓ ETL Testing Architecture and how it differs from DB Testing
- ✓ What is Data Mapping Document
- ✓ Test Scenario's/Test Case/ Test Data Preparation using Data Mapping Document
- ✓ How to validate Initial & Delta loads with examples.
- ✓ How to report the Defects in ETL Testing?

Less Theory More Practical

ETL Tool : Informatica Hand's on

- ✓ Introduction to Informatica PowerCenter
- ✓ Informatica PowerCenter Client Tools
  - **R**epository Manager
  - **D**esigner
  - **W**orkflow Manager
  - Workflow **M**onitor
- ✓ Informatica Terminologies(Mapping,Task, Transformations & Workflow
- ✓ Different types of Transformations in Informatica
  - Aggregator, Expression, Filter & Joiner Transformation
  - Lookup, Rank, Router, Sorter Transformation
  - Source Qualifier Transformation, etc
- ✓ Informatica Hand's on
  - How to Create & Run Mapping/Workflow
  - How to Establish Connections to Databases
  - How to Debug issues using Session/Workflow Logs

Real Time Project's - Hands on

- ✓ ETL validations when Source & Target DB are **Same**
- ✓ ETL validations when Source & Target DB are **Different**
- ✓ ETL validations when working on **Flat files**
- ✓ ETL validations when working on **DWH(DIM & Fact tables)**

ADD on's

- ✓ Resume Preparation & **100** + Real time Interview Questions
- ✓ Reporting/BI Tool : **Microsoft Power BI**
- ✓ Introduction to **DATA SCIENCE**

Duration: 45 Hrs.

By,
SAGAR

Less Theory More Practical