



KKAR Technologies

...Career Through opportunities

ETL TESTING

Module 1 - Data Warehousing Concepts



Introduction to OLTP, and OLAP Systems

- Introduction to Data Warehousing
- Data Modelling
- Normalization/De-normalization
- Schema
- Star Schema
- Snowflake Schema
- Types of Dimension Tables (Confirmed, Junk, Degenerated)
- Types of Fact Tables (Additive, Semi-Additive, Non-Additive)
- Dimensional Modelling
- Fact less Fact table
- Change Data Capture (CDC)
- Slowly Changing Dimensions (SCD Type1, SCD Type2, SCD3 Type3)
- MD5
- Data Loading Techniques (Initial/Full, Incremental/Delta)

Module 2 - Oracle Concepts / T-SQL



Data Definition Language (DDL)

- CREATE, ALTER, DROP, TRUNCATE
- Data Manipulation Language (DML)
- INSERT, UPDATE, DELETE
- Data Retrieval Language (DRL)
- SELECT
- Capabilities of the SELECT statement
- SET Operators
- UNION, UNION ALL, MINUS, INTERSECT
- Creation of Backup Tables
- Numerical Functions
- String / Character Functions



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- Date / Time Functions
- Data Conversion Functions
- Data Analytical Functions
- Pseudo Functions
- Type of Joins
- Creating Views and Indexes
- Data Keys, Constraints
- Practicing on TOAD and SQL Loader
- Regular Expressions
- Materialized views
- Stored Procedures, Functions

Module 3 – Manual Testing Concepts

Module 4 – UNIX Basic Commands

Module 5 – Agile Methodology (Scrum Framework)

Module 6 – HP QC/ALM

Module 7 – ETL Testing

What is ETL Testing?

ETL Testing Strategies

Informatica Power Center Components

Designer, Repository Manager, Workflow Manager, Workflow Monitor
Source Analyzer, Target Designer, Mapping, Session, Workflow

ETL Testing with Informatica

- SAMPLE Loading from source to target
- SORTER Transformation
- FILTER Transformation
- ROUTER Transformation
- EXPRESSION Transformation
- Look up Transformation
- JOINER Transformation
- AGGREGATOR Transformation
- SEQUENCE GENERATOR Transformation



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- Update Strategy
- Flat File - Source/Target
 - Excel - Source/Target
 - SCD type 1
 - SCD type 2
 - SCD type 3
 - Types of load (Full/Initial, Incremental/Delta)

Module 8 – ETL Testing with SSIS

Module 9 – Difference between Oracle SQL and Microsoft SQL (T-SQL) Functions

Module 10 – Cognos 10 Reporting Tool (Testing only)

Module 11 – Interview Questions & Answers