ETL (Extraction Transformation & Loading) Testing Training Course Content

Data Warehousing Concepts BY Srinivas Uttaravilli

o   What are Data and Information and difference between Data and Information?
o   What is Table?
o   What is Database?
o   What is Data Warehouse?
o   Difference between Database and Data Warehouse?
o   Advantages of Data Warehouse and why we need the same?
o   What is DataMart?
o   What is the Difference between DataMart and Data Warehouse?
o   What are the approaches we have to build Data Warehouse?
o   What is top down and bottom up approach in data ware house, differences between those?
o   What are the types of Data Marts?
o   Is Data Mart first or Data Warehouse First while building the Data Warehouse?
o   What is OLTP (Online Transactional Processing), when and why we need the same?
o   What is OLAP (Online Analytical Processing), when and why we need the same?
o   What are the differences between OLTP and OLAP?
o   What is Dimension Table and types?
o   What is SCD (Slowly Changing Dimension) and types?
  ✓   SCD Type1?
  ✓   SCD Type2?
  ✓   SCD TYPE3?
o   How we can find Dimension tables in Real time?
o   What is Fact and how many types of Facts we have?
o   What are the Fact table and types?
o   How we can find Fact tables in Real time?
o   What is surrogate key and why we need in real time?
o   What is Start Schema?
o   What is Snowflakes Schema?
o   Star Schema vs. Snowflakes Schema?
o   What is ODS (Operational Data Store)?
o   OLTP Vs ODS vs Data Warehouse?
o   What is Data modelling?
o   Why should a tester know Data modelling?
o   What is Conceptual modelling?
o   What is Logical modelling?
o   What is Physical modelling?

SQL CONCEPTS BY SRINIVAS UTTARAVILLI

- o What is the Table?
- o What is the Data base? Why we need?
- o Different Data bases in Market? And Differences?
- o What are the DDL, DML and DCL?
  -DDL (Data Defamation Language)
  - ✓ CREATE
  - ✓ ALTER
  - ✓ DROP
  - ✓ RENAME
  - ✓ TRUNCATE

  -DML (Data Manipulation Language)

  - ✓ SELECT
  - ✓ INSERT
  - ✓ UPDATE
  - ✓ DELETE

  -DCL (Data Control Language)

  - ✓ GRANT
  - ✓ REVOKE

NOTE: Detailed level explanation with syntax

- o What are the Data types and why we need the same in Data base?
- o SQL- Operators?
- o What is Constraint and why we need?
- o What are PK and FK, How to create?
- o Useful (For ETL testing) functions in ORACLE
- o What are the aggregate functions and why we need?
- o SELECT Statement usage?
- o What are the aggregate functions and why we need?
- o What are the conditions we should follow while using aggregate functions?
- o What is group by clause and why we need it?
- o What is Having Clause and why we need it?
- o What is distinct clause and why we need the same?
- o What is NULL Value?
- o What is NVL Function and why we need the same?
- o What is Row number?
- o What is Rowid? And how it is useful in real-time?
- o What is surrogate key and when we use this?

- o What are COLUMN ALIASES and TABLE ALIASES? What are the differences between those? How useful these?
- o What is UNION and UNION All? And Differences? What are the prerequisites to perform the same?
- o What is JOINS? Why we need and Types?
  - ✓ INNER JOIN OR EQUE JOIN
  - ✓ LEFT OUTER JOIN OR LEFT JOIN
  - ✓ RIGHT OUTER JOIN OR RIGHT JOIN
  - ✓ FULL JOIN OR FULL OUTER JOIN

- o OLAP Features
  - ✓ CASE
  - ✓ DECODE
  - ✓ RANK ()
  - ✓ DENSE_RANK ()

ETL TESTING INTRODUCTION BY SRINIVAS UTTARAVILLI

- o What is ETL?
- o Architecture of ETL?
- o What is ETL Testing?
- o What are the areas in ETL Architecture?
- o What is Staging area?
  - ✓ Data Merging?
  - ✓ Data Cleansing?
  - ✓ Data Scrubbing?
  - ✓ Data Aggregation?
- o What is Data model?
- o What is Design document?
- o What is mapping document? What it contains and why exactly we need it?
- o What is the test plan and what are the inputs we need to give while preparing the same?
- o What is Data load and types?
- o What are the ETL Tester responsibilities?
- o What is test case?
- o What kind of scenarios we need cover while we writing the test cases?
- o What is test data? When and why it required in real-time?

Quality Center By Srinivas Uttaravilli

- o What is Quality Center and why we need?
- o What are the important components in QC and how those are useful for ETL Tester?
- o What is the life cycle of test case execution?
- o What are Test plan and Test lab and differences?
- o What is Defect/Bug?
- o What is Defect life cycle management? Who are involved in?

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- o What is Defect Triage meeting?
- o What are different statuses in Defect life cycle?

INFORMATICA TOOL BASIC CONCEPTS by Srinivas Uttaravilli

- o What are the ETL Development tools in Market? And why we need?
- o Components of the INFORMATICA and uses?
  - ✓ Repository manager
  - ✓ Designer
  - ✓ Workflow Manager
  - ✓ Workflow Monitor
- o How to run the job In INFORMATICA?
- o How to capture the job statics of INFORMATICA?

NOTE: Live Demo on how to Extract, Transformation and loading the data in Target tables?

Software development life cycle by Srinivas Uttaravilli

- o What is SDLC and why generally we need it?
  - ✓ Requirement phase
  - ✓ HLD (High Level Design)
  - ✓ LLD (Low Level Design)
  - ✓ Development Phase
  - ✓ Testing Phase
  - ✓ Deployment
  - ✓ Production/ Maintenance

UNIX OS and Commands by Srinivas Uttaravilli

- o What is Operating system? Types and Advantages?
- o What is UNIX/LINUX? Differences?
- o Differences between UNIX and Windows?
- o UNIX ORCHITECTURE and its components?
  - ✓ System Hardware
  - ✓ Kernel
  - ✓ Shell
  - ✓ Application layer
- o General commands in UNIX?
- o File related commands in UNIX?
- o What is Vi Editor? And different modes?
  - ✓ Command mode
  - ✓ Insert/Append Mode
  - ✓ Escape Mode

- o Various commands in VI Mode?
  - ✓ Basic cursor movement commands
  - ✓ Page commands
  - ✓ Append/Insert commands
  - ✓ Change/Delete commands
  - ✓ Misllaneous commands
  - ✓ Control commands

Real Time Best Practices by Srinivas Uttaravilli

- o Resume Preparation.
- o Mock Interviews.
- o Interview Tips
- o Real-time Scenarios.
- o FAQ's

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