

INFORMATICA 9.5

Introduction to Data warehousing

- What is Business Domain?
- What is Enterprise?
- What is data warehousing?
- Why data warehousing required?
- Types of systems?
- OLTP and OLAP.
- Characteristic features of OLTP and OLAP.
- Differences between OLTP and OLAP.
- Data acquisition.

Data Extraction

Data transformation

- Data Merging
- Data Scrubbing
- Data cleansing
- Data Aggregation

Data loading

- Initial Loading or Full loading
- Delta loading or Incremental loading
- Type of ETL
- ETL Plan
- Data warehousing Approach
 - ✓ Top down approach
 - ✓ Bottom up approach
- Data mart
- Data warehousing Life Cycle.

Data Warehousing Database Design.

- Start Schema
- Snow Flake Schema
- Galaxy Schema

Slowly Changing Dimensions

- SCD Type 1
- SCD Type 2
- SCD Type 3

Informatica Architecture

- **Server Components**
 - ✓ Repository
 - ✓ Domain
 - ✓ Node
 - ✓ Admin Console
 - ✓ Repository Services
 - ✓ Integration Services
- **Client Components**
 - ✓ Repository Manager
 - ✓ Designer
 - ✓ Workflow Manager
 - ✓ Workflow Monitor

DWH ETL Process

- Source
- Target
- Transformation rule
- Source definition
- Target definition
- Mapping
- Session task
- workflow
- ODS
- HPQS

Informatica 9.1

- Overview of Informatica tools
- Informatica products
- Basic definitions
- Tools and their roles
- Folders and sub-folders

Informatica Designer

- Introduction to designer

Designer Tools

- Source Analyzer
- Target Designer
- Mapping Designer
- Transformation developer
- Mapplet designer

Defining sources

- Database table as source
- Flat file as source
- Excel file as source

Defining Targets

- Creating new target
- Importing from database

Mapping

- Creating mapping without transformations
- Creating mapping -table to table
- Creating mapping- flat file to table
- Ports and types of ports
- Source qualifier

Transformations

- Expression Transformation
- Filter Transformation
- Router Transformation
- Sorter Transformation
- Rank Transformation
- Aggregator Transformation
- Sequence generator Transformation
- Joiner Transformation
- Union Transformation
- Source Qualifier Transformation (Filter)
- Source Qualifier Transformation (Joiner)
- Lookup Transformation

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- Stored procedure Transformation
- XML Source Qualifier Transformation
- Transaction control Transformation
- Normalizer Transformation
- SQL Transformation

Un connected

Transformations

- Unconnected stored procedure
- Unconnected lookup
- Frequently used functions
- Mapping wizard
- Mapping debugger
- Target load plan
- Mapping parameters
- Mapping variables
- Mapping dependencies
- Mapping Comparison
- Import / Export objects
- Generate workflow

Transformation Developer

- Creating reusable transformation
- Convert non reusable to reusable T/R

Mapplet Designer

- Creating mapplet
- Mapplet input
- Mapplet output

Workflow Manager

- Introduction to task developer
- creating task
- Creating relational connections
- Task and types of tasks

Reusable tasks

- Session task
- Email task
- Command task

Batch Processing

- Parallel processing
- Sequential processing

Non reusable task

- Session task
- Email task
- Command task
- Decision task
- Event wait
- Event raise
- Timer task
- Assignment task
- Control task

- worklet task
- Link connections
- Link Conditions
- Setting properties of session task
- Session parameters for flat file
- Session parameters for database
- Incremental loading
- Constraint based loading
- workflow variable
- workflow events
- Implementation of SCD Type 2
- Implementation of SCD Type 1
- Update strategy transformation

Worklet Designer

- Worklet and types of worklet
- Reusable worklet
- Non reusable worklet
- Worklet limitations

Workflow Designer

- Introduction to workflow
- Creating workflow
- Starting workflow

Scheduling workflow

- Reusable schedule
- Non reusable schedule
- Run options

Workflow Monitor

- Observing workflow execution
- status
- session properties
- session logs
- workflow properties
- workflow logs
- Error logs

Push down optimization

Cache mechanism

Performance tuning

- Identifying of bottle necks
- Optimization of bottle necks

ETL Testing

- Unit Testing
- Integration testing
- System testing
- UAT

➤ **Real Time Scenario's**

➤ **Interview Questions**

➤ **Assignments for each top**