



Noble Software Consulting *IT Training*

DATASTAGE 8.1 COURSE OVERVIEW

This course gives an understanding of DataStage. This is a unique ,comprehensive Data Integration Suite that enables to collect, validate, organise, administer and deliver information to realize more value for Enterprise Data, Reduce Costs and increase profitability.

DATASTAGE 8.1 COURSE OUTLINE– 30 HRS

DATAWAREHOUSING CONCEPTS

Introduction to Data Warehousing

- ❖ What is Data Warehousing?
- ❖ Who needs Data Warehousing?
- ❖ Why Data Warehouse is required?
- ❖ Types of Systems
 - (i) OLTP (ii) DSS (iii) OLAP
- ❖ Maintenance of Data Warehouse
- ❖ Data Warehousing Life Cycle

Data Warehousing Architecture

- ❖ Source
- ❖ Integration Layer
- ❖ Staging Area
- ❖ Target
- ❖ Analysis & Reporting
- ❖ ODS
- ❖ HPQS

Multi-Dimensional Modeling

- ❖ What is a Dimension?
- ❖ What are Facts?
- ❖ Multi-Dimensional Model

- ❖ Hierarchies
- ❖ OLAP
- ❖ MOLAP
- ❖ ROLAP
- ❖ HOLAP
- ❖ Cubes and its Functions
- ❖ Start Schema
- ❖ Fact Table
- ❖ Dimensional Tables
- ❖ Snow Flake Schema
- ❖ Factless Fact Table
- ❖ Confirmed Dimensions

IBM WEBSHPERE DATA STAGE AND QUALITY STAGE **VERSION 8.0**

Contents

- Introduction about Data Stage
- IBM Information Sever architecture
- Datastage within the IBM Information Sever architecture
- Difference between Server Jobs and Parallel Jobs
- Difference between Pipeline Parallelism and Partition Parallelism
- Partition techniques (Round Robin, Random,
- Hash, Entire, Same, Modules, Range, DB2, Auto)
- Configuration file
- Difference between SMP/MPD Architecture
- Data stage components (Server components /Client components)
- Package installer

Data stage Administrator

- Creating project, Editing project and Deleting project
- Permissions to user
- .APT config file
- Environment variable creation, permission

Data stage Director

- Introduction to Data stage Director
- Job Status View
- View logs
- Scheduling
- Batches Creation

Designer

- Introduction about Designer
- Repository
- Palatte
- Type of Links
- File Stages
- Sequential file
- Dataset file
- File set
- Lookup file set
- Difference between Sequential file/Dataset/File set
- Database stages
 - ✓ Dynamic RDBMS
 - ✓ Oracle Enterprise
 - ✓ ODBC Enterprise
 - ✓ Stored Procedure

Processing Stages

- Change Capture (caption)
- Compare Stage
- Difference Stage
- Aggregate Stage
- Transformer Stage
- Surrogate Generator Stage
- Join Generator Stage
- Merge Generator Stage
- Lookup Generator Stage
- Difference between Join/Lookup/Merge
- Difference between Join/Lookup
- Remove Duplicates
- Switch
- Pivot
- Modify
- Funnel

Debugging Stage

- Head
- Tail
- Pea
- Row Generator
- Column Generator
- Sample
- Job Parameters

Manager

- Introduction about Datastage Manager
- Importing the Job
- Exporting the Job
- Importing Table Definition
- Importing Flat File Definition
- Routines

Containers

- Difference between Local Container and Shared Container
- Local Container
- Shared Container

Job Sequencers

- Arrange job activities in sequencer
- Triggers in Sequencer
- Restability
- Recoverability
- Notification activity
- Terminator Activity
- Wait for file activity
- Start look activity
- Execute command activity
- Nested Condition activity
- Routine activity
- Exception handing activity
- User variable activity
- End loop activity
- Adding Checkpoints

Information Analyzer

- IBM Websphere Information Analyzer overview
- Data profiling process
- Column
- Analysis
- Primary key analysis
- Foreign key analysis
- Cross-domain analysis
- Baseline analysis
- Analysis result publication
- Deleting analysis results
- Reports for information analysis

- Column analysis summary statistics reports
- Baseline analysis reports
- Cross-domain analysis reports
- Primary key reports
- Foreign key analysis reports

Web sphere Quality Stage

- About Date Quality
- Datastage Quality stages
- Investigate stage
- Standardize stage Match Frequency stage
- Unduplicate Match stage
- Reference Match stage
- Survive stage

IBM Information Sever Administration Guide

- IBM Websphere DataStage administration
- Opening the IBM Information Sever Web console
- Setting up a project in the console
- Customizing the project dashboard
- Setting up security
- Creating users in the console
- Assigning security roles to users and groups
- Managing licenses
- Managing active sessions
- Managing logs
- Managing schedules
- Backing up and restoring IBM Information Server.