

DataStage :- 25 days --- 25 hrs

Data Warehouse Fundamentals

- An introduction to Data Warehousing
- Purpose of Data Warehouse
- Data Warehouse Architecture
- Operational Data Store
- OLTP Vs Warehouse Applications
- Data Marts Data marts Vs Data Warehouses
- Data Warehouse Life cycle

Data Modelling

- Introduction to Data Modelling
- Entity Relationship model (E-R model)
- Data Modelling for Data Warehouse
- Dimensions and fact tables
- Star Schema and Snowflake Schemas

ETL Design Process

- Introduction to Extraction,
- Transformation & Loading
- Types of ETL Tools
- Key tools in the market

Data Stage Installation

- Data stage Installation
- Prerequisites to install Data stage
- Installation process

Introduction to Data stage Version 8.1

- Data stage introduction
- IBM information Server architecture
- Data Stage component
- Data Stage main functions
- Client components

Data stage Administrator

- Data stage project Administration – Editing projects and Adding Projects
- Deleting projects Cleansing up project files
- Global variable setting – Environment management
- Auto purging – Runtimes Column Propagation (RCP)
- Add checkpoints for sequencer – NLS configuration
- Generated OSH (Orchestra Engine) – System formats like data,
- Timestamp – Project protect – Version details.

Data stage Director

- Introduction to Data stage Director – Validating Data stage Jobs
- Executing Data stage jobs – Job execution status
- Monitoring a job – Job log view – job scheduling
- Creating Batches – Scheduling batches

Data stage Designer

- Introduction to Data stage Designer – Importance of Parallelism
- Pipeline Parallelism – Partition Parallelism
- Partitioning and collecting – Partition techniques
- Data stage Repository Palette – Passive and Active stages
- Job design overview – Designer work area
- Annotations – Creating jobs – Importing flat file definitions
- Dataset Overview

Working with Parallel Job Stages

- Database Stages
- Oracle – Teradata – ODBC – dynamic RDBMS

File Stages

- Sequential file – Dataset – File set – Lookup file set

Processing Stages

- Copy – Filter – Funnel – Sort Remove duplicate
- Aggregator – Modify – Compress – Expand – Decode
- Encode – Switch – Pivot stage – Lookup
- Join – Merge – difference between look up,
- Join and merge – change capture – Change apply

- Compare – Difference – Surrogate key generator
- Transformer

Debug Stages

- Head – Tail – Peek – Column generator
- Row generator

Real Time Stages

- XML input – XML output, Java packs,
- Web service packs

Local and Shared containers

Advanced Stages in Parallel Jobs (Version 8.1)

- Range Look process – Surrogate key generator stage
- Slowly changing dimension stage – away stage
- FTP stage – Java plug in – Job performance analysis
- Resource estimation
- Slowly Changing Dimensions implementation
- Performance tuning

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
- Exception handling activity – User Variable activity
- End Loop activity – Adding Checkpoints