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Datastage Syllabus

Module: 01 - Infosphere DataStage components and Server system:

- DataStage Architecture
- Partition Techniques and Partition Methods
- SMP & MPP
- Difference B/W Server jobs & Parallel jobs
- DataStage Designer
- DataStage Director
- DataStage Administrator
- DataStage QualityStage
- DataStage Information Analyzer
- DataStage Information Manager

DataStage Workflow

Module: 02 - Setting up DataStage Environment:

- DataStage Websphere user creation
- DataStage Administrator Properties
- Defining Environment Variables
- Importing Table Definitions
- Creating Parameters and Data Connections

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Extract the data from upstream systems:

Module: 03 - File Stages:

- Sequential File Stage
- Data Set stage
- Complex Flat File stage
- Lookup File set Stage
- File set Stage
- Create jobs that read from and write to sequential files
- Read from multiple files using file patterns
- UNIX command's in Sequential File Stage
- Null handling in Sequential File Stage
- Header and Trailer records handling in Sequential file Stage
- ASCII, COBOL, EBCDIC, Flat files, CSV and Pipe and other delimiter files reading in Sequential File Stage

Module: 04 - Types of DataStage Jobs and Creating Parallel Jobs.

- Parallel Jobs
- Job Sequences
- Design a simple Parallel job in Designer
- Compile your job
- Validate your job
- Run your job via Designer and Director
- View the job log
- Command Line Interface (dsjob)

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Module: 05 - Platform Architecture and Combining Data (Processing Stages):

- Describe parallel processing architecture Describe sequential & partition parallelism
- List and describe partitioning and collecting algorithms
- Describe configuration files
- Explain OSH & Score
- Combine data using the Lookup stage
- Combine data using Merge stage
- Combine data using the Join stage
- Combine data using the Funnel stage

Module: 06 - Processing Stages:

- Filter stage
- Switch stage
- Difference Stage
- Change Capture Stage
- Modify Stage
- Pivot Stage
- Copy Stage

Module: 07 - Sorting types- Aggregate the Data and Transforming Data:

- Sort the data using in-stage sorts, Sort stage and link sorting
- Calculate and count data using Aggregator stage
- Remove Duplicates stage

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Module: 08 – Data Control:

- Understand ways DataStage allows you to transform data
- Create column derivations using user defined code and system functions
- Filter the records based on business criteria
- Control data flow based on data Conditions
- One source data copy into multiple target
- Restructure the Data

Module: 09 - UNIX command execution stages and Data flow Debugging Stages:

- Head & Tail
- Compress & Expand
- Encode & Decode
- External Filter
- Peek
- Row Generator
- Column Generator

Module: 10 - Quality Stage

- Investigate Stage
- Standardize Stage
- Match Frequency Stage
- Reference Match Stage
- Un-duplicate Stage

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- Survival Stage

Module: 11 - Repository Functions:

- Performing Simple Find, Advanced Find and Impact analysis
- Compare the differences between two Table Definitions and Jobs.
- Generate job reports and statistics

Module: 12 - Metadata in Parallel Framework:

- Explain schemas
- Create schemas.
- Explain Runtime Column Propagation (RCP).
- Build a job that reads data from a sequential file using a schema.
- Build a shared container.

Transformations:

- Data Conversions & String transformations
- Column modifications and Data type modifications

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Data warehousing Syllabus

- Evolution of Datawarehousing - History
- The need of Datawarehousing
- Why Datawarehousing
- What is Datawarehousing – The Definition
 1. Subject -Oriented
 2. Integrated
 3. Non – Volatile
 4. Time Varying
- Datawarehousing Architecture
 - Data Source Layer
 - Data Extraction Layer
 - Staging Layer
 - ETL Layer
 - Data Storage Layer
 - Data Logic Layer
 - Data Presentation Layer
 - Metadata Layer
 - System Operation Layer
- Dimension table
- Fact table
 - Additive Facts
 - Semi Additive Facts

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Datastage Syllabus

- Non – Additive Fact
- Cumulative
- Snapshot
- Attribute
- Hierarchy
- Types of Schema
 1. Star Schema
 2. Snow Flake Schema
 3. Fact Constellation Schema
- Slow Changing Dimension
 1. SCD1 – Advantages/ Disadvantages
 2. SCD2 – Advantages/ Disadvantages
 3. SCD3 – Advantages/ Disadvantages
- OLAP and OLTP
 - Difference between OLAP and OLTP
 - Types Of OLAP
 - Multi-Dimensional (MOLAP)
 - Relational(ROLAP)
 - Hybrid(HOLAP)

Note: Practical's session will be taken extra apart from the above mentioned syllabus

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