



IBM WEB Sphere Datastage and Quality Stage – Version 8.5

Step-1 Data Warehouse Fundamentals

- An Introduction of Data warehousing
- purpose of Data warehouse
- Data ware Architecture
- OLTP Vs Data warehouse Applications
- Data Marts
- Data warehouse Lifecycle
- SDLC

Step-2 Data Modeling

- Introduction of Data Modeling
- Entity Relationship Model
- Dimensions and Fact Tables
- Logical Modeling
- Physical Modeling
- Schemas Like Star Schema & Snowflake Schemas
- Fact less Fact Tables

Step-3 Process of ETL (Extraction, Transformation @Load)

- Introduction of Extraction , Transformation and Loading
- Types of ETL tools
- Key tools in the market

Step-4 Installation process

- Windows server
- Oracle
- .NET



- **Datastage 7.5X2 & 8.1**

Step-5 Difference

- **Server jobs & Parallel jobs**

Step-6 Components in Datastage

- **Administrator Clint**
- **Designer client**
- **Director client**
- **Import/export manager**
- **Multi client manager**
- **Console for IBM information server**
- **Web console for IBM information server**



Step-7 Introduction to IBM Web Sphere Datastage and Quality Stage 8.1

- **Datastage Introduction**
- **IBM Information server Architecture**
- **IBM Data Quality Architecture**
- **Profile Architecture**
- **Enterprise Information Integration**
- **Web Sphere Datastage Components**

Step-8 Datastage Designer

- **About Web Sphere Datastage Designer**
- **Partitioning Methods**
- **Partitioning Techniques**
- **Designer Canvas**



- Central Storage
- Job Designing
- Active & Passive Stages
- Creating the Jobs
- Compiling and Run the Jobs
- Exporting and importing the jobs
- Parameter passing
- System(SMP) & Cluster system(MPP)
- Importing Method(Flat file, Txt, Xls and Database files)
- OSH Importing Method
- Configuration file

Step-9 Parallel Palette

Databases stages

- Oracle Database
- Dynamic RDBMS
- ODBC
- Stored Procedure
- SQL Server
- Teradata



File Stages

- Sequential File
- Dataset
- Lookup File set

Dev/Debug Stages

- Peek
- Head
- Row Generator
- Column Generator

Processing Stages

- ✓ Range lookup process
- ✓ Slowly changing dimension stage
- ✓ Slowly changing dimensions implementation
- ✓ Iway stage
- ✓ SFTP stage
- ✓ Java plug in



- ✓ **Job performance analysis**
- **Aggregator**
- **Copy**
- **Compress**
- **Expand**
- **Encode**
- **Decode**
- **Filter**
- **Modify**
- **Sort**
- **Switch**
- **Lookup**
- **Join**
- **Merge**
- **Change Capture**
- **Difference**
- **Surrogate Key Generator**
- **Pivot stage**
- **Transformer**

Containers

Shared Containers

Local Containers



Step-10 DS-Director

- **About DS Director**
- **Validation**
- **Scheduling**
- **Status**
- **View logs**
- **Batch jobs**
- **Monitoring**
- **Suppress and Demote the Warnings**
- **Peek view**

Step-11 Datastage Administrator



- **Create Project**
- **Delete Project**
- **Protect Project**
- **Environmental variables**
- **Auto purge**
- **RCP**
- **OSH**
- **Commands Execute**
- **Multiple Instances**
- **Job Sequence Settings**
- **NLS Configurations**

Step-12 Job Sequence Area

- **Job Activity**
- **Job sequencer**
- **Start loop Activity**
- **End loop Activity**
- **Notification Activity**
- **Terminator Activity**
- **Routine Activity**
- **Nested Condition Activity**
- **Exception handling Activity**
- **Execute Command Activity**
- **Wait for file Activity**
- **User variable Activity**
- **Adding Check Points**
- **Triggers**
- **Restorable**

Step-13 IBM Web Sphere Quality stage

- **Data Quality**
- **Data Quality Stages**
- **Investigate Stage**
- **Standardize Stage**
- **Match Frequency Stage**
- **Reference Match Stage**
- **Unduplicated Match Stage**



- **Survive Stage**

Step-14 IBM Web Sphere Information Analyzer

- **IBM Profiling Data Overview**
- **Data Profiling Process**
- **Primary Key Analysis**
- **Foreign Key Analysis**
- **Column Analysis**
- **Cross Domain Analysis**
- **Baseline Analysis**
- **Deleting Analysis Results**
- **Reports for Analysis**

Step-15 IBM Information server Administrator Guide

- **IBM Websphere Datastage Administrator**
- **Opening the IBM Information server webconsole**
- **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**

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- ✓ **FAQS**
- ✓ **Covering DBA concepts**
- ✓ **Concentration on performance tuning**
- ✓ **Real time scenarios**
- ✓ **Certification guidance**
- ✓ **Resume preparation**



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- ✓ **Class notes which is useful for who is trying for job**
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