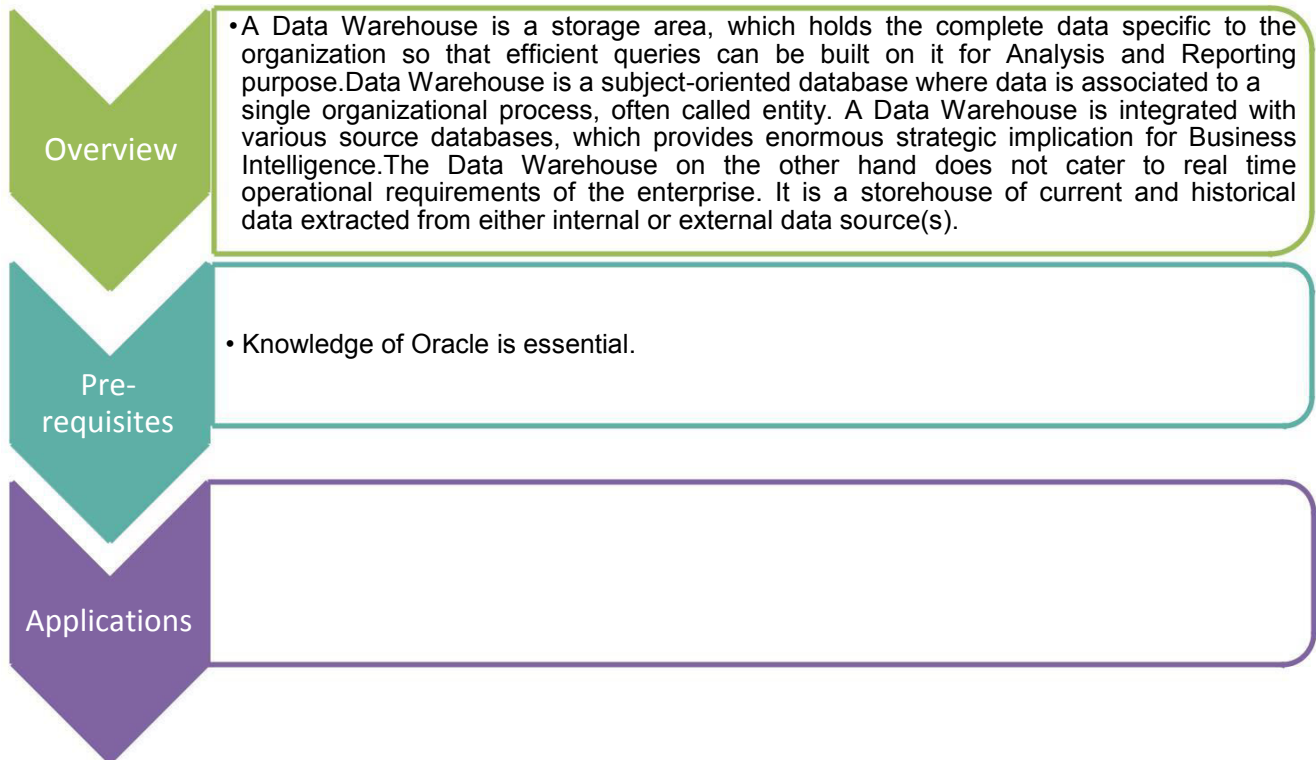


Course Brochure

DWH – DATA STAGE



COURSE CONTENTS

❖ Partition techniques

Datawarehouse Fundamentals:

- ❖ Data warehouse
- ❖ Data mart
- ❖ Purpose of Data warehouse
- ❖ Datawarehouse tools
- ❖ ETL,OLAP and Modeling tools
- ❖ ETL Developer roles and responsibilities
- ❖ ETL specifications
- ❖ Staging areas
- ❖ ODS
- ❖ Validation
- ❖ Transformation Rules(Business Rules)
- ❖ Full Load
- ❖ Delta Load
- ❖ Dimensional Modeling and Relational Modeling
- ❖ Start Schema
- ❖ Snow flake schema
- ❖ Multi Star Schema
- ❖ Confirmed Dimension
- ❖ Factless Fact table
- ❖ Additive facts
- ❖ Semi additive facts
- ❖ Non-additive facts

Datastage 8.1

- ❖ Server Jobs and Parallel Jobs difference
- ❖ Parallel
- ❖ Pipeline Parallelism
- ❖ Partition Parallelism
- ❖ Partitioning and Collecting
- ❖ Configuration file
- ❖ Fastname,Pools,Resource Disk,Resource
Scratch Disk
- ❖ Running Job with different nodes
- ❖ Symmetric Multi Processing
- ❖ Massively Parallel Processing

- ❖ Round Robin
- ❖ Random
- ❖ Hash
- ❖ Entire
- ❖ Same
- ❖ Modulus
- ❖ Range
- ❖ DB2
- ❖ Auto
- ❖ Datastage components
- ❖ Server components
- ❖ Clients components
- ❖ Datastage Server
- ❖ Datastage Repository
- ❖ Naming Standards of jobs
- ❖ Document preparation
- ❖ ETL specs preparation
- ❖ Unit testcases preparation

Datastage Administrator

- ❖ Server properties
- ❖ Datastage project Administration
- ❖ Editing projects and Adding projects
- ❖ Deleting projects
- ❖ Cleansing up project files
- ❖ Upgrade licences
- ❖ Auto purging
- ❖ Permissions to users
- ❖ Runtime Column Propagation
- ❖ Enable Remote Execution of Parallel jobs
- ❖ Add checkpoints for sequencer
- ❖ Project protect
- ❖ .APT Config file

Datastage Director

- ❖ Introduction to Datastage director
- ❖ Datastage Director window
- ❖ Jobs status view
- ❖ Datastage director options

COURSE CONTENTS

- ❖ **Running Datastage jobs**
- ❖ Validating a job
- ❖ Running a job
- ❖ Batch Running
- ❖ Stopping a job and resetting job
- ❖ Monitoring a job
- ❖ Job scheduling
- ❖ Unscheduling a job
- ❖ Rescheduling a job
- ❖ Deleting a job
- ❖ Unlocking jobs
- ❖ View Logfile
- ❖ Clear log
- ❖ Fatal error description
- ❖ Warning description
- ❖ Info description
- ❖ Difference between Compile and Validate
- ❖ Difference between Validate and Run

Datastage Designer

- ❖ **Introduction to Datastage Designer**
- ❖ Importing table definitions
- ❖ Importing flat file definitions
- ❖ Managing the meta data environment
- ❖ Dataset management
- ❖ Deletion of Dataset
- ❖ Routines
- ❖ Importing jobs
- ❖ Exporting jobs(Back up)
- ❖ Configuration file view
- ❖ Explanation of Menu Bar
- ❖ Palette
- ❖ Passive stages
- ❖ Active stages
- ❖ Database stages
- ❖ Debug stages
- ❖ File stages
- ❖ Processing stages

- ❖ **Mutiple Instances**
- ❖ Runtime Column Propagation(RCP)
- ❖ Job design overview
- ❖ Designer work area
- ❖ Annotations
- ❖ Creating jobs,deleting jobs
- ❖ Compiling jobs
- ❖ Batch compiling
- ❖ Validating jobs
- ❖ Parameter passing
- ❖ ODBC,SQL Server stages
- ❖ **Dataset,sequential file,fileset and Lookup fileset**
- ❖ Difference between dataset and Fileset
- ❖ Formats of sequential file
- ❖ Delimetter and final delimiter
- ❖ Multiple reader from sequential file
- ❖ Aggregator stage ,Copy stage
- ❖ Change Capture stage,Compress stage
- ❖ Decode stage,Encode stage,Difference stage
- ❖ Filter stage,Funnel stage
- ❖ Modify stage
- ❖ Join stage,Lookup stages
- ❖ Difference between join and Lookup stages
- ❖ Merge stage
- ❖ **Difference between Lookup and Merge stages**
- ❖ Remove duplicate stage
- ❖ Sort stage,Pivot stage
- ❖ Surrogate key stage, switch stage
- ❖ Types of Lookups
- ❖ Types of Transformer stages
- ❖ Basic transformer stage
- ❖ Transformer stage
- ❖ Null handling in Transformer stage
- ❖ If Then Else in Transformer
- ❖ Stage variables
- ❖ Constraints

COURSE CONTENTS

- ❖ Derivations
- ❖ Peek stage, Head stage, Tail stage
- ❖ Job properties
- ❖ Local variables
- ❖ Functions in Transformers
- ❖ String, Date, Null handling functions
- ❖ All properties in all stages
- ❖ Slowly changing Dimensions (SCD)
- ❖ SCD Type-1
- ❖ SCD Type-2
- ❖ SCD Type-3
- ❖ Implementation of SCD Type-1 in Datastage
- ❖ Implementation of SCD Type-2 in Datastage

Job Sequencer

- ❖ Arrange job activities in Sequencer
- ❖ Triggers in Sequencer
- ❖ Reset method
- ❖ Recoverability
- ❖ Notification Activity
- ❖ Terminator Activity
- ❖ Wait for file Activity
- ❖ Start Look Activity
- ❖ Execute Command Activity
- ❖ Sequencer

Containers

- ❖ Reusability
- ❖ Minimizing complexity
- ❖ Local container
- ❖ Shared container
- ❖ Some jobs in container