

## ABINITIO COURSE CONTENT

### Chapter – 1 → Ab Initio Introduction

- What is an ETL Tool?
- Abinitio and its importance
- Operating Systems & Hardware Platforms that it supports
- Salient Features of Ab Initio

### Products of Ab Initio Software Corporation

- Ab Initio Co>Operating System ( Co>OP)
- Graphical Development Environment (GDE)
- Ab Initio Enterprise Meta>Environment (EME)

### Chapter-2 → Abinitio Architecture

What is the **Anatomy** of Running a Job?

What happens when we push the '**Run**' Button?

- Deployment Process
- Host Process Creation
- Agent Process Creation
- Component Process Creation
- Successful Component Termination
- Agent Termination
- Host Termination
- Abnormal Component Termination

### Chapter –3

### How do we Connect from GDE to the Server

- Host Profile File (.aih)
- Connection, Co-Operating System, Shell & Host Directory
- Abinitio Graph Development life cycle

### How do we build a basic Ab Initio Graph? Using .dat(Data File) & .dml(Record Format File)

### Chapter –4 → Dataset Components

- Input File
- Output File
- Intermediate File
- Lookup file

### Editors in the GDE

- Record Format Editor
- Expression Editor
- Transform Editor
- Key Specifier Editor
- Package Editor

## **SKILL DEVELOPERS**

- Variables Editor
- Sequence Specifier Editor

### **Transform Functions**

- Transform File(.xfr)
- Functions, Variables, Statements & Rules

### **Chapter – 5 → Partition Components**

- Broadcast
- Partition by Key
- Partition by Expression
- Partition by Percentage
- Partition by Range
- Partition by Round-Robin
- Partition with Load Balancing

### **Chapter – 6 → De-partition Components**

- Concatenate
- Gather
- Interleave
- Merge

### **Multifiles and Multidirectories**

### **What is Parallelism – Types of parallelism**

- Component **parallelism**
- Pipeline **parallelism**
- Data **parallelism**

### **Repertitioning - When & Why**

### **Chapter – 7 → Sort Components**

- Sort
- Sort within Groups
- Sample
- Partition by Key & Sort

### **Phasing & Check Pointing**

- Reusability Features
- Sub graphs

### **Chapter – 8 → Transform Components**

- Filter by Expression
- Dedup Sorted
- Reformat
- Aggregate
- Scan
- Rollup
- Join

- Match Sorted
- Normalize
- Denormalize Sorted

## Lookup Dataset's & DML Lookup Functions

### Chapter – 9 → Database Components

#### Working with Database. Introduction Database Configuration File (.dbc)

- Input Table
- Output Table
- Run SQL
- Truncate Table
- Update Table
- Join with DB

### Chapter – 10 → Miscellaneous Components

- Redefine Format
- Gather Logs
- Replicate
- Run Program
- Thrash

#### Deprecated Components

- Find Splitters

#### Compress Components

- Compress
- Uncompress
- GZip
- GUnzip

#### File Transfer Protocol (FTP) Components

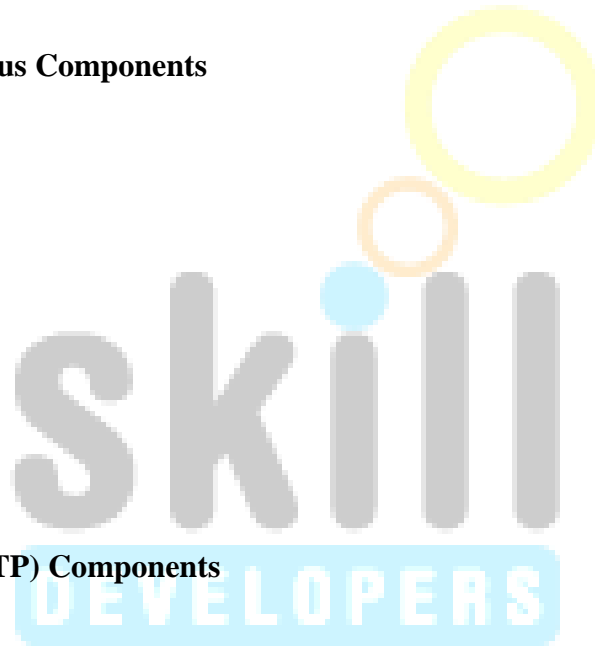
- FTP From
- FTP To

### Chapter – 11 → Validate Components

- Check Order
- Compare Records
- Validate Records
- Generate Records
- Generate Random Bytes
- Compute Checksum
- Compare Checksum

#### The AbInitio Enterprise Meta>Environment(EME)

- High level anatomy of the EME
- Relation to sandbox environment
- Checking in your sandbox
- Checking out a graph or a sandbox



## **SKILL DEVELOPERS**

- Locking in order to change an object
- Tagging
- Common projects
- Dependency and Impact analysis
- **ABINITIO Conflicts**

### *Chapter – 12*

#### **Parameters**

- Graph parameter
- Sandbox Parameters
- Projects parameters

### *Chapter – 13*

#### **Packages**

- User Defined Functions
- User Defined DMLs
- Conditional DMLs
- Conditional Components

### *Chapter – 14*

#### **ABINITIO Commands**

- Air Commands
- M commands

### *Chapter – 15*

- Unix Commands

