

Informatica Cloud/ Power Center Syllabus

Informatica Cloud

- Getting Started Tutorial
- Comparison with Informatica Power Center.
- Creating Informatica Cloud Account/login.
- Downloading and Installing Informatica Secure Agent.
- **Architecture of Informatica Cloud**
- **Security Features of Informatica Cloud**
- Various Services of Informatica Cloud:
 - **Administrator**
 - Details about Organization
 - Setting up default email notifications
 - Adding users to the Organization
 - Setting up user Roles
 - Run Time Environment
 - Downloading secure agent
 - Adding secure agent under organization
 - Adding Connections under organization
 - Working on Add-on Connectors
 - **Monitor**
 - Activity Log

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- Restarting a job
- View Session log
- **Data Integration**
 - Understanding the Data Integration Dashboard
 - Working on various type of mappings
 - **Integration Mappings**
 - **Cleansing Mappings**
 - **Warehousing Mappings**
 - **SCD1 mappings wizard**
 - **SCD2 mappings wizard**
 - **SCD3 mappings wizard**
 - Working on various type of Tasks
 - **Mapping Task**
 - **Synchronization Task**
 - **Replication Task**
 - **Power Center Task**
 - **Mass Ingestion task**
 - **Integration Tasks**
 - **Cleansing Tasks**
 - **Warehousing Task**
 - **Working on various type of Taskflows**

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▪ Working on Components

- Importing Mapplets in Informatica cloud

▪ Working on Connections

- Salesforce Connections
- Database Connections
- Flat File Connections and others

▪ Working on Various Transformation in Cloud

- Sequence
- Joiner
- Sorter
- Filter
- Router
- Expression
- Lookup
- Aggregator
- Mapplet
- Normalizer
- Union
- SQL

▪ Working on Session Properties

- General Option Settings

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- Performance Settings
- Advanced
- Error Handling
- **Working With Parameters**
 - Defining Local Variables
 - Defining Global Variables
- **Understanding Migration activities**

Power Center (Optional and Extra)

Designer Guide:

- Using the Designer
 - Configuring Designer Options
 - Using Toolbars
 - Navigating the Workspace
 - Designer Tasks
 - Viewing Mapplet and Mapplet Reports
- Working with Sources
 - Working with Relational Sources
 - Working with COBOL Sources
 - Working with Cobol Source Files

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➤ Working with Flat Files

- Importing Flat Files
- Editing Flat Files Definition
- Formatting Flat Files Column
- File Type – Direct/Indirect

➤ Working with Targets (File/Tables)

- Importing Target Definition
- Creating Target Definition from Source Definition
- Creating Target Definition from Transformations
- Creating Target tables

➤ Mappings

- Working with Mappings
- Connecting Mapping Objects
- Linking Ports
- Propagating Port Attributes
- Working with Targets in a Mapping
- Working with Relational Targets in a Mapping
- Validating a Mapping
- Using Workflow Generation Wizard

➤ Mapplets

- Understanding Mapplets Input and Output

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- Using Maplet Designer
- Using Mapplets in Mapping
- Mapping Parameters and Variables
- Working with User-Defined Functions
- Using the Debugger
 - Creating Breakpoints
 - Configuring the Debugger
 - Monitoring the Debugger
 - Evaluating Expression
- Creating Cubes and Dimensions
- Using Mapping Wizard
- Naming Conventions

Transformation Guide:

- Working with Transformations
 - Configuring Transformations
 - Working with Ports
 - Working with Expressions
 - Reusable Transformations
- Aggregator Transformation
- Custom Transformation

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- Expression Transformation
- External Transformation
- Filter Transformation
- Joiner Transformation
- Java Transformation
- Lookup Transformation
- Lookup Caches
- Normalizer Transformation
- Rank Transformation
- Router Transformation
- Sequence Generator Transformation
- Sorter Transformation
- Source Qualifier Transformation
- SQL Transformation
- Stored Procedure Transformation
- Transaction Control Transformation
- Union Transformation
- Update Strategy Transformation

Transformation Language Reference:

- The Transformation Language

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- Constants
- Operators
- Variables
- Dates
- Functions
- Creating Custom Function

Workflow Basics Guide:

- Workflow Manager
 - Workflow Manager Options
 - Navigating the Workspace
 - Working with Repository Objects
 - Copying Repository Objects
 - Comparing Repository Objects
- Workflow and Worklets
 - Creating a Workflow
 - Using Workflow Wizard
 - Assigning an Integration Service
 - Working with Worklets
 - Working with Links
- Sessions

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- Creating a Session Task
- Editing a Session
- Pre- and Post- Session Commands
- Session Configuration Objects
- Tasks
 - Creating a Task
 - Configuring Tasks
 - Working with Command Task
 - Working with Decision Task
 - Working with Event Task
 - Working Timer Task
 - Working with Assignment Task
- Sources
 - Configuring Sources in a Session
 - Working with Relational Sources
 - Working with Flat Sources
- Targets
 - Configuring Targets in a Session
 - Working with Relational Targets
 - Working with File Targets
 - Reject Files

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- Validation
 - Validating Tasks
 - Validating Worklets
 - Validating Session
 - Validating Workflows
- Scheduling and Running Workflows
 - Scheduling a Workflow
 - Manually Starting a Workflow
- Sending Email
 - Working with Email Tasks
 - Working with Post-Session Email
- Workflow Monitor
 - Using Workflow Monitor
 - Customizing Workflow Monitor Options
 - Working with Tasks and Workflows
 - Using Gantt Chart View and Task View
- Workflow Monitor Details
 - Integration Services Properties
 - Workflow Run Properties
 - Worklet Run Properties
 - Session Task Run Properties

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- Performance Details
- Session and Workflow Logs
 - Log Events
 - Log Events Window
 - Working with Log Files
 - Workflow Logs

Administrator Guide:

- Understanding Domains
 - Nodes
 - Application Services
- Using Administration Console
- Managing the Domain
 - Managing Alerts
 - Managing Folders
 - Managing Permissions
 - Managing Application Services
 - Managing the Nodes
- Managing Users and Groups
- Managing Privileges and Roles
 - Domain Privileges

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- Repository Services Privileges
- Reporting Service Privileges
- Managing Roles – Assigning Privileges and Roles to Users and Groups
- Creating and Configuring the Repository Services
- Managing the Repository
- Creating and Configuring Integration Services
 - Enabling and Disabling the Integration Services
 - Running in Normal and Safe Mode
 - Configuring the Integration Services Processes
- Integration Services Architecture
- Creating the Reporting Services
 - Managing the Reporting Services
 - Configuring the Reporting Services
- Managing License

Advanced Workflow Guide:

- Understanding Pipeline Partitioning
 - Partitioning Attributes
 - Dynamic Partitioning
 - Partitioning Rules
 - Configuring Partitioning

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- Partitioning Points
 - Adding and Deleting Partitioning points
 - Partitioning Relational Sources
 - Partitioning File Targets
 - Partitioning transformations
- Partitioning Types
- Real Time Processing
- Commit Points
- Workflow Recovery
- Stopping and Aborting
 - Error Handling
 - Stopping and Aborting Workflows
- Concurrent Workflows
- Load Balancer
- Workflow Variables
 - Predefined Workflow Variables
 - User- Defined Workflow Variables
 - Using Worklet Variables
 - Assigning Variable Values in a Worklet
- Parameter and variables in Sessions
 - Working with Session Parameters

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- Assigning Parameter and Variables in a Session
- Parameter File
- Session Caches
- Incremental Aggregation
- Session Log Interface

Command Reference:

- Using Command Line Programs
 - Infacmd
 - Infasetup
 - Pmcmd
 - pmrep

Performance Tuning Guide:

- Performance Tuning Overview
- Bottlenecks
 - Using Thread Statistics
 - Target Bottlenecks
 - Source Bottlenecks
 - Mapping Bottlenecks
 - Session Bottlenecks

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- System Bottlenecks
- Optimizing the Targets
- Optimizing the Source
- Optimizing the Mapping
- Optimizing the Transformations
- Optimizing the Sessions
- Optimizing the PowerCenter Components
- Optimizing the System
- Using Pipeline Partitions
- Performance Counters

Repository Guide:

- Understanding the Repository
- Using Repository Manager
- Folders
- Managing Object Permissions
- Working with Versioned Objects
- Exporting and Importing Objects
- Copying Objects

Note: Lab sessions for all the points mentioned above will be taken.

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Data warehousing Syllabus

- Evolution of Datawarehousing - History
- The need of Datawarehousing
- Why Datawarehousing
- What is Datawarehousing – The Definition
 - Subject -Oriented
 - Integrated
 - Non – Volatile
 - 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

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



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- Hybrid(HOLAP)

