

INFORMATICA COURSE CONTENT

<ul style="list-style-type: none"> ❖ Data Warehouse Concepts: <ul style="list-style-type: none"> ✓ Introduction to Data warehouse ✓ What is Data warehouse and why we need Data warehouse ✓ OLTP vs ODS vs Data warehouse ✓ Dimensional modeling ✓ Star schema/Snowflake schema/Galaxy schema ✓ Dimensions / Facts tables. ✓ Slowly Changing Dimensions and its types. ✓ Data Staging Area ✓ Different types of Dimensions and Facts. ✓ Data Mart vs Data warehouse ✓ DWH Approaches: Ralph Kimball's vs Bill Inmon's ❖ Informatica Power Center : ❖ Software Installation: ❖ Informatica 9 Server/Client Installation on Windows ❖ Power Center Architecture and Components: <ul style="list-style-type: none"> ✓ Introduction to informatica Power Center ✓ Difference Between Power Center and Power Mart ✓ PowerCenter 9 architecture ✓ PowerCenter 7 architecture vs PowerCenter 8 and 9 architecture ✓ Extraction, Transformation and loading process ✓ Power Center tools: Designer, Workflow manager, Workflow Monitor, Repository Manager, Informatica Administration Console. ✓ Repository Server ✓ Repository maintenance ✓ Repository Server Administration Console ✓ Security, Repository, privileges and folder permissions ✓ Metadata extensions ❖ Power Center Developer Topics: ❖ Lab 1: <ul style="list-style-type: none"> ✓ Create a Folder. ✓ How to provide Privileges ✓ Source Object Definitions ❖ Source types <ul style="list-style-type: none"> ✓ Relational Tables (Oracle, Teradata) ✓ Flat Files (fixe width, Delimiter Files) ✓ Xml Files ❖ Source properties ❖ Lab 2: <ul style="list-style-type: none"> ✓ Analyze Source Data, Import Source. ❖ Target Object Definitions <ul style="list-style-type: none"> ✓ Target types ✓ Target properties ❖ Lab 3: <ul style="list-style-type: none"> ✓ Import Targets ❖ Transformation Concepts <ul style="list-style-type: none"> ✓ Transformation types and views ✓ Transformation features and ports ✓ Informatica functions and data types ❖ Mappings <ul style="list-style-type: none"> ✓ Mapping components ✓ Source Qualifier transformation ✓ Pre SQL and Post SQL ✓ Mapping validation ✓ Data flow rules ❖ Lab 11: ❖ Basic and Advance Lookup Target options <ul style="list-style-type: none"> ✓ Row type indicators ✓ Row loading operations 	<ul style="list-style-type: none"> ❖ Lab 4: ❖ Create a Mapping, session, and workflow ❖ Workflows <ul style="list-style-type: none"> ✓ Workflow Tools ✓ Workflow Structure and configuration ✓ Workflow Tasks ✓ Workflow Design and properties ❖ Session Tasks <ul style="list-style-type: none"> ✓ Session Task properties ✓ Session components ✓ Transformation overrides ✓ Session partitions ❖ Lab 5: ❖ Workflow Monitoring <ul style="list-style-type: none"> ✓ Workflow Monitor views ✓ Monitoring a Server ✓ Actions initiated from the workflow Monitor ✓ Gantt chart View and Task view. ❖ Lab 6: ❖ Start and Monitor a Workflow <ul style="list-style-type: none"> ✓ Debugger ✓ Debugger features ✓ Debugger windows ✓ Tips for using the Debugger ❖ Lab 7: ❖ The Debugger <ul style="list-style-type: none"> ✓ Expression transformation ✓ Expression, variable ports, storing previous record values. ✓ Different type of Ports ✓ Input/ output / Variable ports and Port Evaluation ✓ Filter transformation ✓ Filter properties ❖ Lab 8: ❖ Expression and Filter <ul style="list-style-type: none"> ✓ Aggregator transformation ✓ Aggregation function and expressions ✓ Aggregator properties ✓ Using sorted data ✓ Incremental Aggregation ❖ Joiner transformation <ul style="list-style-type: none"> ✓ Joiner types ✓ Joiner conditions and properties ✓ Joiner usage and Nested joins ❖ Lab 9: <ul style="list-style-type: none"> ✓ Aggregator, Heterogeneous join Working with Flat files ✓ Importing and editing flat file sources & Targets Lab Session – Use Flat file as source. Sorter transformation ❖ Sorter properties ❖ Sorter limitations ❖ Lab 10: ❖ Sorter <ul style="list-style-type: none"> ✓ Propagate Attributes. ✓ Shared Folder and Working with shortcuts. ✓ Informatica built in functions. ❖ Lookup transformation <ul style="list-style-type: none"> ✓ Lookup principles ✓ Lookup properties ✓ Lookup techniques ✓ Connected and unconnected lookups, Lookup Caches
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- ✓ Constraint- based loading
- ✓ Rejected row handling options
- ❖ **Lab 12:**
- ❖ **Deleting Rows**
- ✓ Update Strategy transformation
- ✓ Update strategy expressions
- ❖ **Lab 13:**
- ✓ Data Driven Inserts and Rejects
- ✓ Router transformation
- ✓ Using a router
- ✓ Router groups
- ❖ **Lab 14:**
- ❖ **Router Conditional Lookups**
- ✓ Usage and techniques
- ✓ Advantage
- ✓ Functionality
- ❖ **Lab 15: Straight Load**
- ❖ **Lab 16: Conditional Lookups**
- ✓ Heterogeneous Targets
- ✓ Heterogeneous target types
- ✓ Target type conversions and limitations
- ❖ **Lab 17: Heterogeneous Targets Mapplets**
- ✓ Functionality and Advantages
- ✓ Mapplet types and structure
- ✓ Mapplet limitations
- ❖ **Lab 18: Mapplets**
- ✓ Reusable transformations
- ✓ Advantages
- ✓ Limitations
- ✓ Promoting and copying transformations
- ❖ **Lab 19: Reusable transformations**
- Sequence Generator transformation**
- ✓ Using a sequence Generator
- ✓ Sequence Generator properties
- ❖ **Dynamic Lookup**
- ✓ Dynamic lookup theory
- ✓ Usage and functionality
- ✓ Advantages
- ❖ **Lab 20: Dynamic Lookup**
- Concurrent and sequential Workflows**
- ✓ Concurrent Workflows
- ✓ Sequential Workflows
- ✓ Stopping, Starting and suspending tasks and workflows
- ❖ **Lab 21: Sequential Workflow Additional Transformations**
- ✓ Union Transformation
- ✓ Rank transformation
- ✓ Normalizer transformation
- ✓ Custom Transformation
- ✓ Transformation Control transformation
- ✓ XML Transformation
- ✓ SQL Transformation
- ✓ Stored Procedure Transformation
- ✓ External procedure Transformation
- ✓ SQL Transformation
- ❖ **Lab Sessions- For above transformations Error Handling**
- ✓ Overview of Error Handling Topics
- ❖ **Review various BI Reporting methods**
- ✓ Informatica - Best practices.
- ✓ Mapping Design through Visio tool.
- ✓ Data Loading techniques for huge volume of data.
- ✓ XML Data Loading – Best Practices.
- ✓ Incremental Loading and Rollback procedures.
- ✓ Slowly changing dimension – Overview.
- ❖ **Lab 22:**
- ❖ **Error handling fatal and non Fatal Workflow Tasks:**
- ✓ Command
- ✓ Email
- ✓ Decision
- ✓ Timer
- ✓ Control
- ✓ Even Raise and Wait
- ✓ Sequential Batch Processing
- ✓ Parallel Batch Processing
- ❖ **Lab Sessions – With Workflow tasks Link Conditions Team Based Development**
- ✓ Version Control
- ✓ Checking out and checking in objects.
- ❖ **Performance Tuning**
- ✓ Overview of System Environment Identifying Bottlenecks.
- ✓ Optimizing Source, Target, mapping, Transformation, session.
- ✓ Mapping Parameters and Variables
- ❖ **Introduction to Mappng Variables and Parameters**
- ❖ Creating Mapping Variables and Updating Variables
- ❖ Creating Parameter File and associating file to a Session
- ❖ System Variables
- ❖ Variables functions
- ❖ **Lab 26: Override Mapping Variable with Parameter Files**
- ❖ **Lab 27: Dynamically Updating a Source Qualifier with Mapping Variable**
- ✓ Slowly Changing Dimensions Type 1, Type 2, Type 3
- ✓ Incremental Loading
- ❖ **Lab 28: SCD 1, 2, 3**
- ✓ Reusable Workflow Tasks
- ✓ WorkLets
- ✓ Worklets Limitation
- ✓ Sessions
- ✓ Reusable Sessions
- ❖ **Lab 29: Create Worklets using Tasks Command Line Interface (PMCMD)**
- ✓ Overview of PMCMD and functions.
- ✓ Overview of PMREP and functions.
- ❖ **Lab 30: PMCMD**
- ✓ PMREP
- ✓ Informatica Migrations:
- ✓ Copying Objects
- ✓ Objects export and import (XML)
- ✓ Deployment groups
- ❖ **Workflows Scheduling:**
- ✓ Using Informatica
- ✓ Unix crontab, third party tools.
- ❖ **Lab 30:Informatica Project- Case Study**
- ✓ Sales Data mart.
- ✓ Loading Dimensions and Facts.
- ❖ **ETL Best Practices and methodologies**
- ✓ Review the Industry best practices in ETL Development
- ✓ Review Real time project experiences of trainer
- ✓ Discuss what is learned techniques are useful in real world
- ✓ How to design effective ETL process
- ✓ Important considerations in designing ETL process
- ✓ Discuss real world prouction issues and support
- ✓ Discuss various roles in ETL world
- ✓ Busines Analyst, System Analyst
- ✓ System Architect
- ✓ Technical Architect, ETL Lead



<ul style="list-style-type: none">✓ Caching VS Direct load.✓ Transaction Handling.✓ Performance Tuning.✓ Traceability and Event Logging	<ul style="list-style-type: none">✓ Stakeholders, Business users✓ Effective ways of using Data warehouse
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