Session Plan - Informatica Power Center v10

	Day 1
	ule 1: Data Warehousing Basics and Overview of Informatica Power Center
Session	Topic/Activity Name
	Training Obje
	Basics of Data Warehousing
	Characteristics of Data Warehouse
	OLTP and OLAP systems
	Data Warehouse Architecture
	Types of Data Warehouse ODS v/s Data Warehouse
	Data Marts
	Data Integration using ETL
	ETL Process overview
	Data Analysis Techniques
	Data Warehouse Architecture choices
	Implementation choices
Session 1	Difference between Top Down and Bottom Up Approach
	Data Granularity
	Logical v/s Physical Data Model
	Data Modelling Techniques
	E-R Model and Dimensional Model
	What is a Fact
	Types of Facts
	Designing Fact tables
	What is a Dimension
	Types of Dimensions
	Slowly Changing Dimensions - Type 1, Type 2 and Type 3
	Star Schema, Snowflake Schema and Fact Constellation Schema
	Lab Activity: Prepare a dimensional model for a retail case study
	Retail Data Mart Capstone Project - Requirement and Design Overview
	Introduction to Power Center
	Service Oriented Architecture (SOA)
	Overview of Power Center 10.x Architecture
	Concept of Domain, Nodes and Grids
	Service Manager
	Application Services Repository Service and Integration Service
	Informatica Repository
	Metadata
Session 2	Overview of Client components
	Getting started
	Overview of Repository Manager Interface
	Lab Activity: Create a Folder
	Overview of Designer and Workflow Manager
	Design first mapping using Designer
	Run first workflow using Workflow Manager
	Retail Data Mart Capstone Project - Requirement and Design Overview
	Total
Day 2	
Module 2:	Working with Power Center Designer and Transformations
Session	Topic/Activity Name
	Objectives
	Mappings and Transformations
	Working with Relational Database sources
	Working with Flat file sources
	Lab Activity: Analyze Source Data
	Working with XML and SFDC sources
	Working with Relational Database targets
	Lab Activity: Design a Target Schema
	Working with Flat file targets

	Active and Passive Transformations
	Data Flow Rules
	Connected v/s Unconnected Transformation
	Understanding Transformation ports
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Session 3	Source Qualifier Transformation
	Homogenous Joins using Source Qualifier
	User Defined Source Qualifier Join
	Multiple source pipelines
	Overview of Expression Transformation
	Expression Editor
	Expression functions
	Variable ports in Expression Transformation
	Lab Activity: Create a Mapping
	Lab Activity: Creating Workflow
	Lab Activity: Start and Monitor Workflows
	Filter Transformation
	Router Transformation
	Sorter Transformation
	Real Time Implementation Scenario: Type 1 SCD, Type 2 SCD
	Aggregator Transformation
	Aggregator with Sorted Input
	Aggregator Caches
	Lab Activity: Sales Summary
	Lab Activity: Listing Order Details
	Lab Activity: Router Transformation
	Joiner Transformation
	Heterogenous joins using Joiner
	Join types
Session 4	Master and Detail pipeline in Joiner
3e55i0ii 4	Understanding Joiner caches
	Tips and Guidelines for Aggregator and Joiner
	Sequence Generator Transformation
	Sequence Generator properties
	Lab Activity: Sequence Generator Transformation
	Lab Activity: Type 1 SCD mapping
	Lab Activity: Type 2 SCD mapping
	Retail Data Mart Capstone Project - Load Staging LayerTables / Project Velocity
	Standards Overview
	Total
Day 3	

Day 3	
Module 2:	Working with Power Center Designer and Transformations
Session	Topic/Activity Name
	Objectives
	Lookup functionality
	Lookup Transformation overview
	Understanding Lookup caches
	Static and Dynamic Lookup Cache
	Lab Activity: New Customer
	Persistent Cache
Session 5	Use of Dynamic Lookup Cache
	Lab Activity: Dynamic Lookup
	Unconnected Lookup transformation
	Connected v/s Unconnected Lookup
	Joiner v/s Lookup
	Implementing Active lookup
	Update Strategy Transformation
	Lab Activity: Updating Current Items
	Rank Transformation Overview
	Understanding Rank caches
	Lab Activity: Flat File Join
	Union Transformation properties
	Normalizer Transformation overview

	Converting columns to rows using normalizer
	Stored Procedure Transformation overview
	Stored Procedure transformation ports
Session 6	Unconnected Stored Procedure
36221011 0	Stored Procedure type
	Lab Activity: Stored Procedure Transformation
	Working with Transactions
	Transaction Commit Types
	Constraint Based Loading
	Transaction Control Transformation
	Other Advanced Transformations (Web Service/XML Transformations)
	Retail Data Mart Capstone Project - Load Dimension Tables
	Total

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Module 3:	Working with Workflow Manager and Workflow Monitor
Session	Topic/Activity Name
	Objectives
	Overview of Workflow Manager interface
	Understanding Tasks and Sessions
	Link conditions
	Command Task and Email Task
	Lab Activity: Configure an Email Task
	Lab Activity: Configure a Command Task
	Event Raise and Event Wait
	Lab Activity: Event Wait and Event Raise Task
Section 7	Control Task, Timer Task and Decision Task
Session 7	Assignment Task
	Scheduling Workflows
	Lab Activity: Pre-SQL and Post-SQL
	Using File Lists
	Lab Activity: Multiple Source Files (Indirect Files)
	Overview of Workflow Monitor Interface
	Task view and Gantt Chart view
	Stop, Abort and Restart tasks and workflows
	Monitoring session run statistics
	Analyzing session logs and workflow logs

Module 4:

Reusability and Parameterization

Session	Topic/Activity Name
	Objectives
	Using Reusable transformations
	Mapplet overview
	Data sources defined outside mapplet
	Data sources defined inside mapplet
	Mapplet Input Transformation
	Mapplet Output Transformation
	Mapplet with multiple output groups
	Active and Passive Mapplets
	Lab Activity: Create a Mapplet
	Lab Activity: Quarterly Sales Mapping
	Lab Activity: Annual Sales Mapping
	Using Reusable Tasks
	Worklet Overview
	Reusable and Non-reusable Worklet
	Objectives
Session 8	Declaring Mapping Parameters and Variables
	Initialization priority of parameters and variables
	User defined session parameters
	Service Variables and Service Process Variables
	Maintaining parameter files

Lab Activity: Mapping Parameters
System variables
Functions to set Mapping Variables
Lab Activity: Mapping Variables
Built in and User defined Workflow Variables
Mapplet parameters and variables
Worklet parameters and variables
Real Time Implementation Scenario: Changed Data Capture using Mapping Variable
Real Time Implementation Scenario: Incremental Aggregation
Retail Data Mart Capstone Project - Load Facts and Aggregated Fact Tables
Total

Day 5	
Module 5:	Performance Tuning and Optimization
Session	Topic/Activity Name
	Objectives
	Preliminary steps for performance tuning
	Understanding and Using Thread Statistics
	Analyzing session performance counters
	Identifying Bottlenecks
	Methods of Bottleneck isolation
	Target and Source Optimization Techniques
	Tuning transformations and mapping design
	Memory Optimization
Session 9	Understanding and Tuning DTM Buffer
	Tuning Transformation Caches
	Session Optimization Techniques
	Partitioning Overview
	Types of partitions
	Transformation rules for partitioning
	Working with Flat file partitions
	Understanding Pushdown Optimization
	Lab Activity: Pipeline Partitioning
	Total

Module 6: Introduction to Power Center Administration

Session	Topic/Activity Name
	Objectives
	Creating static and dynamic deployment groups
	Migrating objects
	Overview of Administration Console
	Creating Users, Groups and Roles
Session 10	Assigning Roles and Permissions
	Lab Activity 10
	Final Assessment : MCQ
	Retail Data Mart Capstone Project - Final Review with Project documentations
	(TDD/UTCL/S2T)
	Total