

## Data Manager Online training Contents

### DATA MANAGER ONLINE TRAINING

#### DATA MANAGER COURSE CONTENT

Examine derivations

Apply operators and functions to derivations

Examine the derivation timing model

Add derivations to a fact build

#### CREATE CONFORMED DIMENSIONS

Examine conformed dimensions and their advantages

Design conformed dimensions

Create conformed dimensions

Create data integrity lookups that use conformed dimensions

#### CUSTOMIZE REFERENCE STRUCTURES

Create hierarchies manually using different approaches

Examine the features of a hierarchy

Examine literals

Set data access for hierarchy levels

Examine static and dynamic members

Examine fostering

Use derivations in a hierarchy

#### PROCESS DIMENSIONAL HISTORY AND LATE ARRIVING FACTS

Examine slowly changing dimensions (SCDs)

Use surrogate keys in SCDs

Manage type 1 and type 2 changes to dimensional data

Load historical data for a dimension

Examine late arriving facts

Process late arriving facts in a fact build

#### TRANSFORM DATA USING LOOKUPS AND DERIVED DIMENSIONS

Identify when to use lookups

Identify the requirements for a lookup

Create a translation lookup

Create an optional lookup

Add derived dimensions to fact builds

### CUSTOMIZE DATA DELIVERY

Configure fact and dimension delivery modules

Create indexes on fact and dimension tables

Update fact data using keys

### CUSTOMIZE FACT DATA PROCESSING

Filter fact data

Merge duplicate fact data

Examine fact data integrity checking

Reject fact data

### AGGREGATE, FILTER, AND PARTITION FACT DATA

Aggregate fact data

Examine aggregate rules

Vertically restrict fact data

Horizontally restrict fact data

Partition fact data

### IMPLEMENT JOB CONTROL

Examine where job control fits into the data warehouse lifecycle

Create a JobStream

Add, link, and reposition nodes

Execute a JobStream and view the results

### AUTOMATE FUNCTIONALITY USING COMMANDS

Differentiate between the Command Line Interface (CLI) and Data Manager Designer

Identify common commands

Use commands in a batch file

Examine variables

### CUSTOMIZE FUNCTIONALITY WITH USER-DEFINED FUNCTIONS AND VARIABLES

Examine user defined functions (UDFs)

Create an internal UDF

Create a user-defined variable

#### PROCESS UNBALANCED HIERARCHICAL DATA

Examine balanced, unbalanced, and ragged hierarchies

Add a recursive level to a hierarchy

Identify ways to balance a hierarchy and delivered flattened data

Examine circular references

#### PIVOT FACT DATA

Examine pivoting

Use the single pivot technique

Use the advanced pivot technique

Examine reverse pivoting

#### RESOLVE DATA QUALITY ISSUES

Identify data quality and cleansing issues

Handle fostered and unmatched members

Perform debugging using SQLTerm and functions

Assess the quality of output data

#### TROUBLESHOOT AND TUNE THE DATA MANAGER ENVIRONMENT

Use build logging to ensure that data marts are being loaded properly

Perform dimension breaking

Manage memory and resources

Export DDL statements

#### ORGANIZE AND PACKAGE DATA MANAGER COMPONENTS

Export and import components using packages

Search for components in a catalog using Navigator

#### INTEGRATE WITH IBM COGNOS BI

Examine IBM Cognos BI

Identify the role of metadata dimensions, metadata collections, and metadata stars

Export Data Manager metadata to XML

Import Data Manager XML into Framework Manager

Use Data Manager metadata with IBM Cognos BI

Publish a data movement task to IBM Cognos Connection

ColoursIT