

IBM InfoSphere DataStage v11.5 - Advanced Data Processing

Kód kurzu: KM423G

This course is designed to introduce you to advanced parallel job data processing techniques in DataStage v11.5. In this course you will develop data techniques for processing different types of complex data resources including relational data, unstructured data (Excel spreadsheets), and XML data. In addition, you will learn advanced techniques for processing data, including techniques for masking data and techniques for validating data using data rules. Finally, you will learn techniques for updating data in a star schema data warehouse using the DataStage SCD (Slowly Changing Dimensions) stage. Even if you are not working with all of these specific types of data, you will benefit from this course by learning advanced DataStage job design techniques, techniques that go beyond those utilized in the DataStage Essentials course.

Pre koho je kurz určený

Experienced DataStage developers seeking training in more advanced DataStage job techniques and who seek techniques for working with complex types of data resources.

Čo Vás naučíme

Use Connector stages to read from and write to database tables

Handle SQL errors in Connector stages

Use Connector stages with multiple input links

Use the File Connector stage to access Hadoop HDFS data

Optimize jobs that write to database tables

Use the Unstructured Data stage to extract data from Excel spreadsheets

Use the Data Masking stage to mask sensitive data processed within a DataStage job

Use the Hierarchical stage to parse, compose, and transform XML data

Use the Schema Library Manager to import and manage XML schemas

Use the Data Rules stage to validate fields of data within a DataStage job

Create custom data rules for validating data

Design a job that processes a star schema data warehouse with Type 1 and Type 2 slowly changing dimensions

Požadované vstupné znalosti

DataStage Essentials course or equivalent.

Študijné materiály

Príručka ku kurzu firmy IBM podľa programu kurzu.

Osnova kurzu

Unit 1 –Accessing databases Topic 1: Connector stage overview • Use Connector stages to read from and write to relational tables • Working with the Connector stage properties Topic 2: Connector stage functionality • Before / After SQL • Sparse lookups • Optimize insert/update performance Topic 3: Error handling in Connector stages • Reject links • Reject conditions Topic 4: Multiple input links • Designing jobs using Connector stages with multiple input links • Ordering records across multiple input links Topic 5: File Connector stage • Read and write data to Hadoop file systems Demonstration 1: Handling database errors Demonstration 2: Parallel jobs with multiple Connector input links Demonstration 3: Using the File Connector stage to read and write HDFS files

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Unit 2 – Processing unstructured data Topic 1: Using the Unstructured Data stage in DataStage jobs • Extract data from an Excel spreadsheet • Specify a data range for data extraction in an Unstructured Data stage • Specify document properties for data extraction. Demonstration 1: Processing unstructured data

Unit 3 – Data masking Topic 1: Using the Data Masking stage in DataStage jobs • Data masking techniques • Data masking policies • Applying policies for masquerading context-aware data types • Applying policies for masquerading generic data types • Repeatable replacement • Using reference tables • Creating custom reference tables
Demonstration 1: Data masking

Unit 4 – Using data rules Topic 1: Introduction to data rules • Using the Data Rules Editor • Selecting data rules • Binding data rule variables • Output link constraints • Adding statistics and attributes to the output information Topic 2: Use the Data Rules stage to valid foreign key references in source data Topic 3: Create custom data rules
Demonstration 1: Using data rules

Unit 5 – Processing XML data Topic 1: Introduction to the Hierarchical stage • Hierarchical stage Assembly editor • Use the Schema Library Manager to import and manage XML schemas Topic 2: Composing XML data • Using the HJoin step to create parent-child relationships between input lists • Using the Composer step Topic 3: Writing Hierarchical data to a relational table Topic 4: Using the Regroup step Topic 5: Consuming XML data • Using the XML Parser step • Propagating columns Topic 6: Transforming XML data • Using the Aggregate step • Using the Sort step • Using the Switch step • Using the H-Pivot step Demonstration 1: Importing XML schemas Demonstration 2: Compose hierarchical data Demonstration 3: Consume hierarchical data Demonstration 4: Transform hierarchical data

Unit 6: Updating a star schema database Topic 1: Surrogate keys • Design a job that creates and updates a surrogate key source key file from a dimension table Topic 2: Slowly Changing Dimensions (SCD) stage • Star schema databases • SCD stage Fast Path pages • Specifying purpose codes • Dimension update specification • Design a job that processes a star schema database with Type 1 and Type 2 slowly changing dimensions Demonstration 1: Build a parallel job that updates a star schema database with two dimensions

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