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744     };
745     };
746     };
747     };
748     };
749     $sort_order = array();
750     };
751     };
752     foreach ($quotes as $key => $value) {
753         $sort_order[$key] = $value['sort_order'];
754     }
755     array_multisort($sort_order, SORT_ASC, $quotes);
756     $this->session->data['lpa']['shipping_methods'] = $quotes;
757     $this->session->data['lpa']['address'] = $address;
758     if (empty($quotes)) {
759         $json['error'] = $this->language->get('
760             error_no_shipping_methods');
761     } else {
762         $json['quotes'] = $quotes;
763     }
764     if (isset($this->session->data['lpa']['shipping_method']) &&
765         empty($this->session->data['lpa']['shipping_method']) &&
766         isset($this->session->data['lpa']['shipping_method']['code'])
767     ) {
768         $json['selected'] = $this->session->data['lpa']['
769             shipping_method']['code'];
770     } else {
771         $json['selected'] = '';
772     }
773     $json['error'] = $this->language->get('error_shipping_methods');
774     $this->response->addHeader('Content-Type: application/json');
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SAP Data Services (BODS) - Course Syllabus

1) BODS overview

1. Over view of the Data services
2. Data services benefits, associated products, interfaces
3. Data services Architecture on single and distributed environment

2) BODS Designer concepts

1. Creating the repository (Local, Central repository)
2. Exploring the menu options in the designer
3. Creating the project, Job flow, Data flow, Work flows etc., defining different types of Data stores (Source and destination data stores)
4. Use data store and system configurations
5. Defining file formats for flat, Excel, XML files

3) Batch Jobs

1. Creating Batch Jobs
2. Work with objects
3. Create a data flow
4. Adding the Query transform to the data flow

5. Use target tables
6. Execute the job

4) Defining Data Integrator Transforms

1. Date Generation Transform
2. Pivot Transform
3. Reverse Pivot Transform
4. XML_Pipeline Transform

5) Defining Data Platform Transforms

1. Query Transform
2. Case Transform
3. Merge Transform
4. Validation Transform
5. Row Generation Transform
6. SQL Transform

6) Defining Data Quality Transform

1. Address Cleanse
2. Geocoder

7) Implementation of SCD

1. SCD Type0
 - Query Transform
2. SCD Type1
 - Table Comparison Transform
 - Map_Operation Transform
3. SCD Type2
 - Table Comparison Transform
 - History Preserving Transform
 - Key Generation Transform

8) Using Functions, Scripts, and Variables

1. Define built-in functions
2. Use functions in expressions
3. Use variables and parameters
4. Create Custom functions
5. Use Data Services scripting language

9) Data Assessment

1. Using the data profiler
 2. Using the validation transform
- 10) Setting up Error Handling
1. Set up recoverable work flows
- 11) Setting up Exception Handling
1. Try/Catch Techniques
- 12) IF Conditional
- 13) While-Loop Implementation
- 14) Capturing Changes in Data
- 15) Data Assessment
1. Update data over time
 2. Use source-based CDC
 3. Use target-based CDC
 - SCD Type 2
- 16) Multi-User Environment(Local Repo Vs Central Repo)
- 17) SAP Integration
1. Data extraction from ECC system to File, Table and SAP BI
 2. Data extraction from ECC Extractors
 3. Data Extraction from SAP BW
 4. ABAP Workflows
- 18) SAP HANA and SAP BODS Integration
1. Introduction to SAP HANA
 2. Introduction to SAP HANA Studio
 3. Create Data Store for SAP HANA
 4. Perform the load into SAP HANA
 5. Store the data in Column Store
 6. Preview the data in SQL console of SAP HANA Studio
- 19) Information Steward
1. Data Insight
 2. Metadata management
 3. Metapedia

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