

**Team Assignment****Updated: April 3, 2018****Team Assignment****Databases:**

- Source db:
  - AdventureWorks2016\_us - sql server - backup AdventureWorks2016\_us.bak
  - AdventureWorks2016\_eu - mysql
  - AdventureWorks2016\_au - postgresql
  - AdventureWorks2016\_ca - oracle
  - Source files
- Target db:
  - AdventureWorksDW\_neu: MySQL for Talend Target
  - AdventureWorksDW\_neu: SQL Server for SSIS Target
- SQL Scripts
  - AdventureWorksDW2014 Purchasing DW - 2018-03-01 sql server.sql
  - AdventureWorksDW2014 Purchasing DW - 2018-03-01 mysql.sql

**Objectives:**

Project split into two parts: Purchasing and sales subjects of DW

| TABLE_CATALOG        | TABLE_NAME        | Purchasing | Sales | Comments |
|----------------------|-------------------|------------|-------|----------|
| AdventureWorksDW_neu | DimCurrency       |            | x     |          |
| AdventureWorksDW_neu | DimCustomerPerson |            | x     |          |
| AdventureWorksDW_neu | DimDate           | x          | x     |          |
| AdventureWorksDW_neu | DimEmployee       | x          | x     |          |
| AdventureWorksDW_neu | DimGeography      | x          | x     |          |
| AdventureWorksDW_neu | DimLocation       | x          |       |          |
| AdventureWorksDW_neu | DimPayHistory     |            | x     |          |

## Team Assignment

Updated: April 3, 2018

| TABLE_CATALOG        | TABLE_NAME                    | Purchasing | Sales | Comments   |
|----------------------|-------------------------------|------------|-------|--|
| AdventureWorksDW_neu | DimProducts_Purchased         | x          |       | only products that are purchased from vendors                |
| AdventureWorksDW_neu | DimProductsAll                |            | x     |  |
| AdventureWorksDW_neu | DimProductVendor              | x          |       |  |
| AdventureWorksDW_neu | DimPromotion                  |            | x     |  |
| AdventureWorksDW_neu | DimSalesTerritory             | x          | x     |  |
| AdventureWorksDW_neu | DimScrapReason                | x          |       |  |
| AdventureWorksDW_neu | DimShipMethod                 | x          | x     |  |
| AdventureWorksDW_neu | DimStore                      | x          | x     |  |
| AdventureWorksDW_neu | DimVendorContacts             | x          |       |  |
| AdventureWorksDW_neu | DimVendors                    | x          |       |  |
| AdventureWorksDW_neu | Fact_WorkOrder                | x          |       |  |
| AdventureWorksDW_neu | Fact_WorkOrder_Rejects        | x          |       |  |
| AdventureWorksDW_neu | Fact_WorkOrderRouting         | x          |       |  |
| AdventureWorksDW_neu | Fact_WorkOrderRouting_Rejects | x          |       |  |
| AdventureWorksDW_neu | FactInternetSales             |            | x     | Sources are in native currency & need to be converted to USD |
| AdventureWorksDW_neu | FactInternetSales_Rejects     |            | x     |  |
| AdventureWorksDW_neu | FactPurchases                 | x          |       | Purchase Orders  |
| AdventureWorksDW_neu | FactPurchases_Rejects         | x          |       |  |
| AdventureWorksDW_neu | FactStoreSales                |            | x     | Sources are in native currency & need to be converted to USD |
| AdventureWorksDW_neu | FactStoreSales_Rejects        |            | x     |  |

## Part 1 – Purchasing related data

Data is primarily located in Adventureworks2016\_US.

Load tables listed above under the Purchasing column.

Need to load target DW:

- AdventureWorksDW\_neu: MySQL for Talend Target
- AdventureWorksDW\_neu: SQL Server for SSIS Target

Note:

- Assume SCD Type 1 and only get current rows related to employees & employee-related data
- Cannot use AdventureWorksDW2016 for any data except DimDate
- Cannot use any views, stored procedures or functions from AdventureWorks2016

Submit:

- Schema, List of Tables, Row Counts – in spreadsheet or table
- Screen capture of success run of Talend & SSIS jobs with row counts
- Upload Talend & SSIS jobs
- BI Queries & results (SQL queries is fine, can use BI tools but NOT graded on BI)
  - Ranked order of Vendors by purchase amount \$
  - Ranked order of products by amount \$
    - By category
    - By subcategory
    - By product model (top 20)
    - By product (top 20)
  - Ranked list of employees purchasing products amount \$
  - List of employees who purchased products with phone, email & address
  - List of purchasing contacts with vendor name, phone, email & address

Grading criteria:

- Loading all tables
- Handling errors in loading Fact tables
- Correct target table row counts – total rows, valid rows and invalid rows.
- Split of invalid rows by type and reason for error.
- Structure of SSIS code
- Structure of Talend code
- Completing SSIS job in one pass & job time
- Completing Talend job in one pass & job time