

TK Blue - Monthly extraction from TIERS - Talend.

Below are the list of Talend jobs which were developed as part of Global Supply Chain CO2 Emission Shipment costs detailed analysis TIERS (Core Query).

Talend Project : DATA_OCEAN_DOMAIN_SUSTAINABILITY

GCP Project : prj-data-dm-sust-prod

Schedule : jobs are scheduled to run on 3rd of every Month.

Talend Plan in TMC: PL_GSC_CO2Emission_Shipment

BQ Details

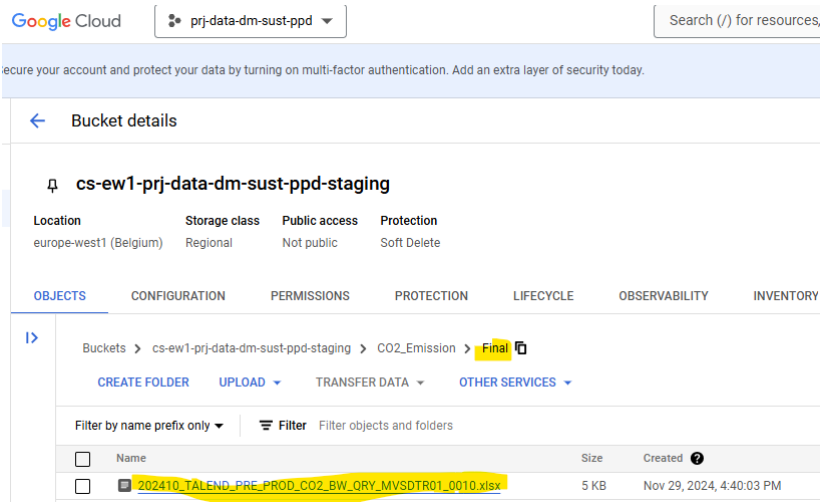
BQ_Dataset	BQ_Table	CloudStorage Bucket
STG	STG_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	cs-ew1-prj-data-dm-sust-ppd-staging/CO2_Emission/Processed
ODS	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	cs-ew1-prj-data-dm-sust-ppd-staging/CO2_Emission/Processed

Target File:

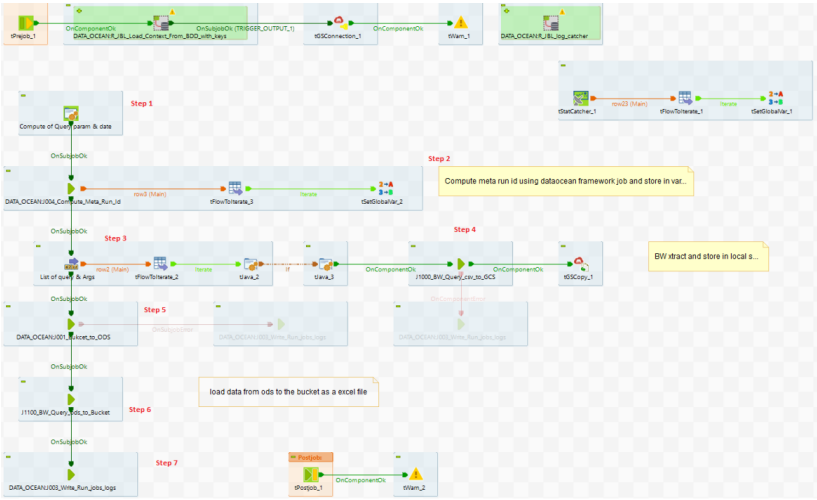
Final excel file is loaded in the below bucket folder for the User's to access and download it.

Bucket: cs-ew1-prj-data-dm-sust-ppd-staging/CO2_Emission/Final.

Filename: YYYYMM_TALEND_PRE_PROD_CO2_BW_QRY_MVSDTR01_0010.xlsx. For example for the month of November, Data is extracted for the previous month and loaded as in below:



Job Details

Flow Name	Description	Source Table/Query	Target Table
F1000 - FMain or chestrator flow which includes Data Ocean reference jobs	Automated extraction of shipment details in order to calculate their CO2 emissions  Step 1: Compute the Year & Previous Month and store in a variable (in the format YYYYMM). Step 2: Compute meta run id using DataOcean framework job and store in a global variable Step3: Build the BW query and pass the query to the Step 4. Step4: Extract the data from xtract and load the csv to the cloud storage bucket. Job: J1000_BW_Query_csv_to_GCS Step 5: Using the Data Ocean reference jobs, process the above file in step 4 into STG & ODS tables. ref to data ocean bucket to STG jobs: 2 - Move data from bucket to staging STG to ODS: 3 - Move data from staging to ods Step6: Extract the data from the ODS table for that batch execution Job: J1100_BW_Query_ods_to_Bucket Step 7: Using the Data Ocean reference jobs, Write the success logs into the log table.	TALEND< ENV > - DIBW - QRY - MVSDTR01010	cs-ew1-prj-data-dm-sust-<env>-staging/CC.xlsx

Job J1100_BW_Query_ods_to_Bucket 0.7

Prejob:
tPrejob_1
OnComponentOk
tGSSConnection_1
OnComponentOk
tWarn_1

R_JBL_log_catcher

Postjob:
tPostjob_1
OnComponentOk
tFileDelete_2
OnComponentOk
tWarn_2

row1 (Main)
tBigQueryInput_1
tMap_1

row2 (Main)
tReplace_1
tFileOutputDelimited_1

row3 (Main)
tReplace_2
tFileOutputExcel_1

row4 (Main)
tGSPut_1

row5 (Main)
tGSPut_2

Extract the data from the ODS table for that batch execution based on Meta_Execution_ID.

Query:

"SELECT * FROM "+ context.I_LOCAL_VAR_GCP_PROJECT_ID+"." + context.I_LOCAL_VAR_STAGING_TO_ODS_DATASET_ODS + "." + context.I_LOCAL_VAR_STAGING_TO_ODS_Target_TABLE + " where meta_execution_id=" + context.Meta_Execution_ID + ""

The values for above context's can be found in the RDS database.

cs-ew1-prj-data-dm-sust-test-staging/CO2

Buckets > cs-ew1-prj-da

CREATE FOLDER U

Filter by name prefix only

☐ Name

☐ 2024010_TALEN

Data Mapping

ProjectID	Source Table	ODS Target Table Name	Source Column	Rule's	Final Target Attribute Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_010	BFC_GBU		BFC_GBU
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_010	Source_System		Source_System
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_010	Ship_Actual_Shipment_Completion_Y_M		Ship_Actual_Shipment_Completion_Y_M
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_010	Ship_Actual_shipment_Completion		Ship_Actual_Shipment_Completion
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_010	Order_number		Order_number

prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Leg_indicator		Leg_indicator
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number	if Shipment_Number is "PF1_020/4111623978" then expected is "4111623978" for example if Shipment_number contains "SF1_020/" then replace it with empty.	Shipment_Number
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Shipping_condit_Key	if contains "PF1_020/" then replace it with empty	Shipping_conditions_core_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Shipping_condit_Name		Shipping_conditions_core_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Shipping_Line_Key		Ship_Shipping_Line_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Shipping_Line		Ship_Shipping_Line_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Forward_Agent	if contains "PF1_020/" then replace it with empty	Forward_Agent_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Forward_Agent_Key		Forward_Agent_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number_Shipment_Type_Core_Key	if contains "PF1_020/" then replace it with empty	Shipment_Type_Core_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number_Shipment_Type_Core_Name		Shipment_Type_Core_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number_Shipping_Type_Key	if contains "PF1_020/" then replace it with empty	Main_Shipping_Type_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number_Shipping_Type_Name		Main_Shipping_Type_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number_Shipment_Vessel_name_Key		Shipment_Vessel_name_MoT_arrival_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number_Shipment_Vessel_name_Name		Shipment_Vessel_name_MoT_arrival_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number_Packaging_materials_Key	if contains "PF1_020/" then replace it with empty	Packaging_materials_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Shipment_Number_Packaging_materials_Medium_Name		Packaging_materials_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Plant_Key	if contains "PF1_020/" then replace it with empty	Plant_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Plant		Plant_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Key	if contains "PF1_020/" then replace it with empty	Ship_Departure_Point_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point		Ship_Departure_Point_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Postal_Code_Key		Ship_Departure_Point_Postal_Code_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Location_Key		Ship_Departure_Point_Location

prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Country_Key		Ship_Departure_Point_Country_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Country_Name		Ship_Departure_Point_Country_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Transportation_Zone_Key		Ship_Departure_Point_Transportation_Zone_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Transportation_Zone_Name		Ship_Departure_Point_Transportation_Zone_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Region_Key		Ship_Departure_Point_Region_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Departure_Point_Region_Name		Ship_Departure_Point_Region_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Key	if contains "PF1_020/" then replace it with empty	Ship_Destination_Point_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi		Ship_Destination_Point_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Postal_Code_Key		Ship_Destination_Point_Postal_Code
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Location_Key		Ship_Destination_Point_Location
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Country_Key		Ship_Destination_Point_Country_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Country_Name		Ship_Destination_Point_Country_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Transportation_Zone_Key		Ship_Destination_Point_Transportation_Zone_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Transportation_Zone_Name		Ship_Destination_Point_Transportation_Zone_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Region_Key		Ship_Destination_Point_Region_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Destination_Poi_Region_Name		Ship_Destination_Point_Region_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Route_Key	if contains "PF1_020/" then replace it with empty	Ship_Route_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Route_Medium_Name		Ship_Route_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Transportation_Key		Ship_Transportation_Mode_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Transportation		Ship_Transportation_Mode_Name
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Route_Pre-Shipping_Type_Key	if contains "PF1_020/" then replace it with empty	Pre-Shipping_Type_Key
prj-data-dm-sust-<env>	TALEND_PROD_DI_BW_QRY_MVSDTR01_0010	ODS_BWH_0000_0000_F1000_F_W_CO_MVSDTR01_0010	Ship_Route_Pre-Shipping_Type_Name		Pre-Shipping_Type_Name

