Mecano - Reload on Mecano query

Overview

The variable to control the reload is l_LOCAL_VAR_RECOVERY_MODE

true = Reload

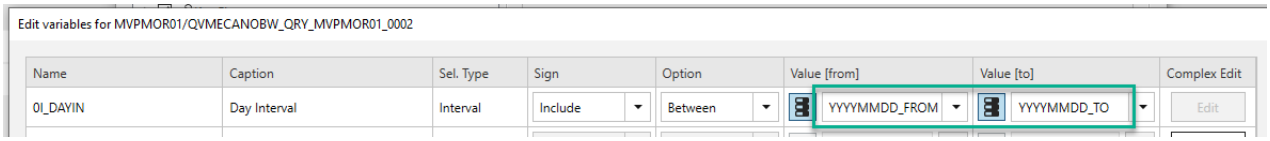
false = Incremental

This will control only PL_MECANO_DASH (weekly load).

There are 3 groups of loading variables

Day(yyyyMMdd,yyyyMMdd) : QVMECANOBW_QRY_MVPMOR01_0002

- l_LOCAL_VAR_MVPMOR01__YYYYMMDD_FROM eg. 20241001
- l_LOCAL_VAR_MVPMOR01__YYYYMMDD_TO ***Must NOT over current Monday



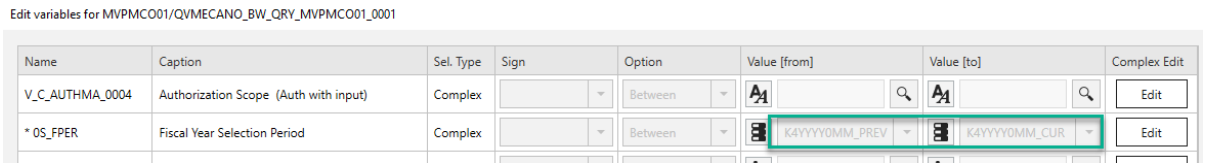
Week (yyyyww) : The rest of queries

- l_LOCAL_VAR_HISTO_YEAR eg. 2024
- l_LOCAL_VAR_HISTO_WEEK_END eg. 01

** This will apply to all the queries that use Week parameter.

Month(yyyy0MM,yyyy0MM) : QVMECANO_BW_QRY_MVPMCO01_0001

- l_LOCAL_VAR_MVPMCO01_0001_HIST_K4YYYY0MM_PREV eg. K42024009
- l_LOCAL_VAR_MVPMCO01_0001_HIST_K4YYYY0MM_CURR eg. K42024010



There are 2 data flow of loading

1. PL_MECANO_DASH (F_MAIN_MECANO) load weekly on Monday
2. PL_MECANO_DAILY_LOAD Every Tue, Wed, Thu and Fri impact only query QVMECANO_BW_QRY_MVPMOP04_0006

** Remark: The common confusion

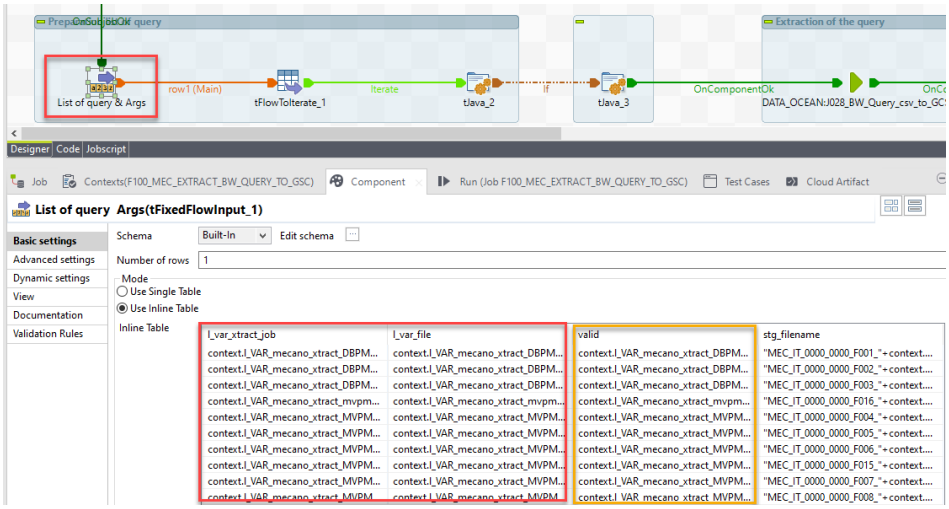
- Query QVMECANO_BW_QRY_MVPMOP04_0006 has the Week variable (yyyyww) but it uses the daily flow loading. Since this query needs to update every day.
- Query QVMECANO_BW_QRY_MVPMOR01_0002 has the Day variable (yyyyMMdd) but it is a weekly load.

Talend Jobs

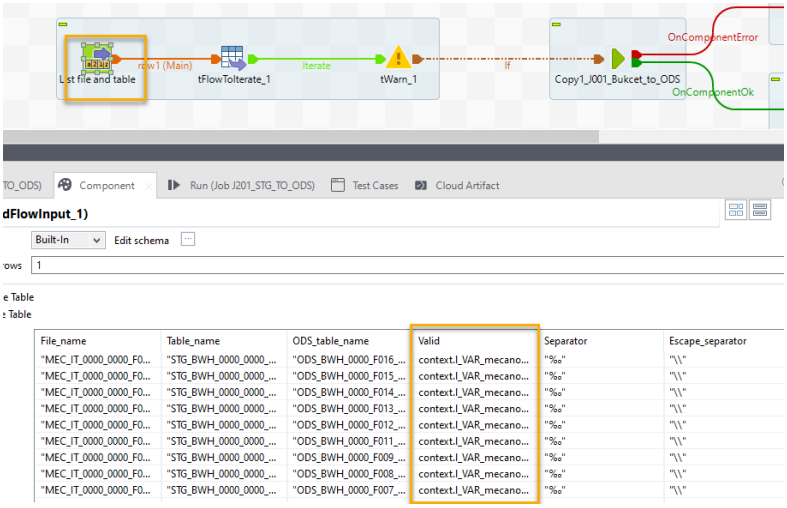
To reload run job F_MAIN_MECANO, which cover source to DM.

Source to ODS

F100_MEC_EXTRACT_BW_QUERY_TO_GSC



J201_STG_TO_ODS



These 2 jobs will control by following parameters in order to control the loading

Name of Xtract job parameter

It is used to control the name of Xtract name to run on the job F100_MEC_EXTRACT_BW_QUERY_TO_GSC

- l_VAR_mecano_xtract_DBPMMD01_0001_job
- l_VAR_mecano_xtract_DBPMMD02_0001_job
- l_VAR_mecano_xtract_DBPMMD05_0001_job
- l_VAR_mecano_xtract_MVPMCL01_0001_job

- l_VAR_mecano_xtract_mvpmco01_job
- l_VAR_mecano_xtract_MVPMNO04_0001_job
- l_VAR_mecano_xtract_MVPMNO04_0002_job
- l_VAR_mecano_xtract_MVPMOP02_0010_job
- l_VAR_mecano_xtract_MVPMOP04_0001_job
- l_VAR_mecano_xtract_MVPMOP04_0002_job
- l_VAR_mecano_xtract_MVPMOP04_0003_job
- l_VAR_mecano_xtract_MVPMOP04_0005_job
- l_VAR_mecano_xtract_MVPMOP04_0006_job
- l_VAR_mecano_xtract_MVPMOR01_0002_job
- l_VAR_mecano_xtract_MVPMOR04_0001_job

Valid parameter

It is used to control which query will be used to load by the job F100_MEC_EXTRACT_BW_QUERY_TO_GSC

- l_VAR_mecano_xtract_DBPMMD01_0001_valid
- l_VAR_mecano_xtract_DBPMMD02_0001_valid
- l_VAR_mecano_xtract_DBPMMD05_0001_valid
- l_VAR_mecano_xtract_MVPMCL01_0001_valid
- l_VAR_mecano_xtract_mvpmco01_valid
- l_VAR_mecano_xtract_MVPMNO04_0001_valid
- l_VAR_mecano_xtract_MVPMNO04_0002_valid
- l_VAR_mecano_xtract_MVPMOP02_0010_valid
- l_VAR_mecano_xtract_MVPMOP04_0001_valid
- l_VAR_mecano_xtract_MVPMOP04_0002_valid
- l_VAR_mecano_xtract_MVPMOP04_0003_valid
- l_VAR_mecano_xtract_MVPMOP04_0005_valid
- l_VAR_mecano_xtract_MVPMOP04_0006_valid
- l_VAR_mecano_xtract_MVPMOR01_0002_valid
- l_VAR_mecano_xtract_MVPMOR04_0001_valid

ODS to DM

F310_MEC_LOAD_FACT_MAINTENANCE_STRATEGIC (always delete the same ref_date on the last load from ODS in FACT before loading using WDL. FACT_maintenance_dash_strategic_cost_budget_tmp)
F320_MEC_LOAD_FACT_MAINTENCANCE_EFFECTIVENESS
F330_MEC_LOAD_FACT_MAINTENANCE_EFFICIENCY

Incremental load

Variable = l_LOCAL_VAR_RECOVERY_MODE = false

Talend job = F_MAIN_MECANO

Talend sub job = F100_MEC_EXTRACT_BW_QUERY_TO_GSC

This job will determine

Day (yyyyMMdd,yyyyMMdd): get last Monday to current Monday by using custom routine

String to_week=R001_MECANO.getCurrentMonday(TalendDate.getCurrentDate()) ;

String from_week=R001_MECANO.getpreviousMonday(TalendDate.getCurrentDate());

Week(yyyyww): Get the week of loading date - 1 day

int currentWeek = TalendDate.getPartOfDate("WEEK_OF_YEAR", TalendDate.getCurrentDate()) - 1;

String weekOfYear = (currentWeek > 0) ? String.format("%02d", currentWeek) : "52";

String param=TalendDate.getDate("YYYY")+ weekOfYear;

Month(yyyy0MM, yyyy0MM): get last month to current month based on loading date

String prev="K4"+TalendDate.formatDate("yyyy0MM", TalendDate.addDate(TalendDate.getCurrentDate(), -1,"MM"));

String cur="K4"+TalendDate.formatDate("yyyy0MM", TalendDate.getCurrentDate());

Reload

DAILY FLOW

It is not allowed to reload. It must use Weekly flow instead.

The daily flow will load only TALEND_QVMECANO_BW_QRY_MVPMOP04_0006

WEEKLY FLOW

Variable = l_LOCAL_VAR_RECOVERY_MODE = true

Talend job = F_MAIN_MECANO

Talend sub job = F100_MEC_EXTRACT_BW_QUERY_TO_GSC

This job will determine

Day (yyyyMMdd,yyyyMMdd):

String from_week=context.l_LOCAL_VAR_MVPMOR01__YYYYMMDD_FROM

String to_week=context.l_LOCAL_VAR_MVPMOR01__YYYYMMDD_TO

Remark:

- Must NOT over current Mon otherwise, it will be duplicate
- 1 Month will have size around 20 MB and 50k rows

Week(yyyyww):

yyyyww = l_LOCAL_VAR_HISTO_YEAR + l_LOCAL_VAR_HISTO_WEEK_END

Month(yyyy0MM, yyyy0MM):

String prev = context.l_LOCAL_VAR_MVPMCO01_0001_HIST_K4YYYY0MM_PREV;

String cur = context.l_LOCAL_VAR_MVPMCO01_0001_HIST_K4YYYY0MM_CURR;

F04_QVMECANO_BW_QRY_MVPMNO04_0001

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.01/2.02/2.05_hist:

- nb_of_notification_created
- nb_of_notif_in_progress
- nb_of_notif_in_progress_without_work_order
- nb_of_notif_in_progress_with_delay
- nb_of_notif_in_progress_delay_1_to_30_days
- nb_of_notif_in_progress_delay_31_to_90_days
- nb_of_notif_in_progress_delay_more_than_91_days
- nb_of_notif_in_progress_no_required_end_date

Validation

```
select reference_week,

sum(nb_of_notification_created) nb_of_notification_created,

sum(nb_of_notif_in_progress) nb_of_notif_in_progress,

sum(nb_of_notif_in_progress_without_work_order) nb_of_notif_in_progress_without_work_order,

sum(nb_of_notif_in_progress_with_delay) nb_of_notif_in_progress_with_delay,

sum(nb_of_notif_in_progress_delay_1_to_30_days) nb_of_notif_in_progress_delay_1_to_30_days,

sum(nb_of_notif_in_progress_delay_31_to_90_days) nb_of_notif_in_progress_delay_31_to_90_days,

sum(nb_of_notif_in_progress_delay_more_than_91_days) nb_of_notif_in_progress_delay_more_than_91_days,

sum(nb_of_notif_in_progress_no_required_end_date) nb_of_notif_in_progress_no_required_end_date

from `prj-data-maintenance-dash-dev.DPL.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '2.01/2.02/2.05_hist'
```

group by reference_week

order by reference_week desc

Query results

SAVE RESULTS

JOB INFORMATION | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH

Row	reference_week	nb_of_notification_cr	nb_of_notif_in_progr	nb_of_notif_in_progr	nb_of_notif_in_progr	nb_of_notif_in_progr	nb_of_notif_in_progr	nb_of_notif_in_progr	nb_of_notif_in_progr
1	48.2024	8319	251027	42643	171801	12909	15233	143659	53204
2	47.2024	8912	250383	42077	171043	13129	15166	142748	53140
3	46.2024	8857	249616	42291	170260	12616	15289	142355	52697
4	45.2024	9197	249606	42233	170292	12730	15183	142379	52798
5	44.2024	8521	248886	41747	169306	12408	15159	141739	53166
6	43.2024	8923	248592	41712	168192	12059	15216	140917	53390
7	42.2024	8964	247009	41520	167615	12344	15027	140244	52670
8	41.2024	8382	244911	41476	166342	12117	14818	139407	52351

BW Result

Query Technical Nam	QVMECANO_BW_QRY_MVPMNO04_0001						
SnapShot (Week)	41.2024 - 48.2024						
Planning Plant	WP1_400/GRU						
SnapShot (Week)	Nb of Notification Created	Nb of Notif. In Progress	Nb of Notif. In Progress without Work Order	Nb of Notif. In Progress with Delay	Nb of Notif. In Progress (Delay 1 to 30 days)	Nb of Notif. In Progress (Delay 31 to 90 days)	Nb of Notif. In Progress (Delay more than 91 days)
41.2024	369	10,481	337	7,691	659	1,152	5,880
42.2024	324	10,594	326	7,837	729	1,117	5,991
43.2024	325	10,799	340	7,996	763	1,140	6,093
44.2024	351	10,776	348	8,046	739	1,159	6,148
45.2024	464	11,048	430	8,217	806	1,153	6,258
46.2024	331	11,204	361	8,375	832	1,168	6,375
47.2024	316	11,365	353	8,582	893	1,179	6,510
48.2024	161	11,359	394	8,649	841	1,181	6,627

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_efficiency in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_efficiency`

where reference_week = '41.2024' and kpi_no = '2.01/2.02/2.05_hist'

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMNO04_0001_valid = 1 and select the other to 0 in case we don’t want to reload all the queries

F05: QVMECANO_BW_QRY_MVPMNO04_0002

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.01/2.02/2.05_det:

- nb_of_notification_created
- nb_of_notif_in_progress
- nb_of_notif_in_progress_without_work_order
- nb_of_notif_in_progress_with_delay
- nb_of_notif_in_progress_delay_1_to_30_days
- nb_of_notif_in_progress_delay_31_to_90_days
- nb_of_notif_in_progress_delay_more_than_91_days
- nb_of_notif_in_progress_no_required_end_date

Validation

select reference_week,

sum(nb_of_notification_created) nb_of_notification_created,

sum(nb_of_notif_in_progress) nb_of_notif_in_progress,

sum(nb_of_notif_in_progress_without_work_order) nb_of_notif_in_progress_without_work_order,

sum(nb_of_notif_in_progress_with_delay) nb_of_notif_in_progress_with_delay,

sum(nb_of_notif_in_progress_delay_1_to_30_days) nb_of_notif_in_progress_delay_1_to_30_days,

sum(nb_of_notif_in_progress_delay_31_to_90_days) nb_of_notif_in_progress_delay_31_to_90_days,

sum(nb_of_notif_in_progress_delay_more_than_91_days) nb_of_notif_in_progress_delay_more_than_91_days,

sum(nb_of_notif_in_progress_no_required_end_date) nb_of_notif_in_progress_no_required_end_date

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '2.01/2.02/2.05_det'

and reference_week between '41.2024' and '48.2024'

and planning_plant_key like '%GRU%'

group by reference_week

order by reference_week

BW Result

Query Technical Nam	QVMECANO_BW_QRY_MVPMNO04_0002							
SnapShot (Week)	41.2024 - 48.2024							
PM planning plant	WP1_400/GRU							
SnapShot (Week)	**Nb of Notification Created**	**Nb of Notif. In Progress**	**Nb of Notif. In Progress without Work Order**	**Nb of Notif. In Progress with Delay**	**Nb of Notif. In Progress (Delay 1 to 30 days)**	**Nb of Notif. In Progress (Delay 31 to 90 days)**	**Nb of Notif. In Progress (Delay more than 91 days)**	**Nb**
41.2024	369	10,481	337	7,691	659	1,152	5,880	
42.2024	324	10,594	326	7,837	729	1,117	5,991	
43.2024	325	10,799	340	7,996	763	1,140	6,093	
44.2024	351	10,776	348	8,046	739	1,159	6,148	
45.2024	464	11,048	430	8,217	806	1,153	6,258	
46.2024	331	11,204	361	8,375	832	1,168	6,375	
47.2024	316	11,365	353	8,582	893	1,179	6,510	
48.2024	161	11,359	394	8,649	841	1,181	6,627	

Reload

Normally this query will update the kpi_no = '2.01/2.02/2.05_det'

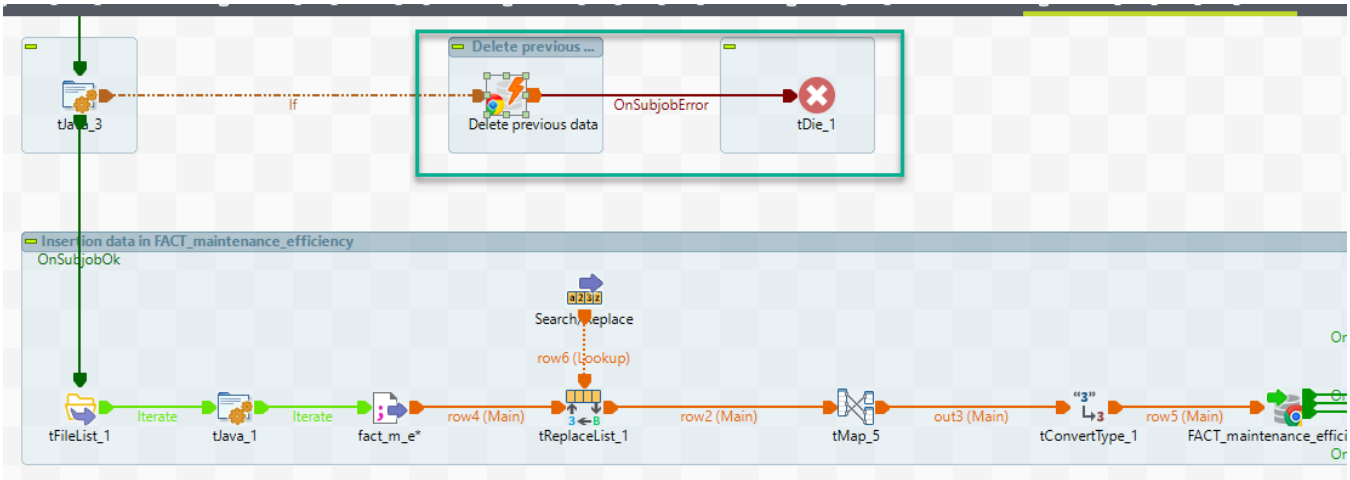
This data will be available on the DM.FACT_maintenance_efficiency only the latest week.

There is a section to delete the whole data from this query when l_LOCAL_VAR_RECOVERY_MODE == false (incremental load every Monday)

Therefore,

if we reload the data for the current week, just run the PL_MECANO_DASH with l_LOCAL_VAR_RECOVERY_MODE == false

if we reload the data for the previous weeks on DM.FACT_maintenance_efficiency, it is not required for this query.



However, if want to reload source to ODS_BWH_0000_F005_F_W_mec_mvpmno04_0002,

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

l_VAR_mecano_xtract_MVPMNO04_0002_valid = 1

To reload week 41.2024. It is required only job F100_MEC_EXTRACT_BW_QUERY_TO_GSC and J201_STG_TO_ODS. Then reload RELOAD DM. FACT_notification_planning by job F010_FACT_notification_planning_TO_DM

l_VAR_BWH_notification_planning_dm_reload_condition = and SnapShot__Week like '%2024' and substr(SnapShot__Week,1,2) >= '01' and substr (SnapShot__Week,1,2) <= '01' QUALIFY ROW_NUMBER() OVER (PARTITION BY Source_System_Key, Notification_key, Required_End_Date_Key, User_Status__Notification____List_Key, SnapShot__Week ORDER BY meta_business_date DESC) = 1

F06: QVMECANO_BW_QRY_MVPMCL01_0001

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_effectiveness

This query will impact on kpi_no = 3.02

- planned_activity_nb_of_calls
- planned_activity_executed_nb_of_calls
- ongoing_activity_nb_of_calls
- activity_delayed_nb_of_calls
- activity_delayed_1_30_days_nb_of_calls
- activity_delayed_31_90_days_nb_of_calls
- activity_delayed_more_than_90_days_Nb_of_Calls
- planned_activity_nb_of_hours
- Planned_activity_executed_nb_of_hours

Validation

DPL

select reference_week,

sum(planned_activity_nb_of_calls) planned_activity_nb_of_calls,

sum(planned_activity_executed_nb_of_calls) planned_activity_executed_nb_of_calls,

sum(ongoing_activity_nb_of_calls) ongoing_activity_nb_of_calls,

sum(activity_delayed_nb_of_calls) activity_delayed_nb_of_calls,

sum(activity_delayed_1_30_days_nb_of_calls) activity_delayed_1_30_days_nb_of_calls,

sum(activity_delayed_31_90_days_nb_of_calls) activity_delayed_31_90_days_nb_of_calls,

sum(activity_delayed_more_than_90_days_Nb_of_Calls) activity_delayed_more_than_90_days_Nb_of_Calls,

sum(planned_activity_nb_of_hours) planned_activity_nb_of_hours,

sum(planned_activity_executed_nb_of_hours) planned_activity_executed_nb_of_hours

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '3.02'

and reference_week between '41.2024' and '48.2024'

and planning_plant_key like '%GRU%'

group by reference_week

order by reference_week

ODS

SELECT meta_run_id,SUM(SAFE_CAST(Planned_Activity__Nb_of_Calls as float64)) Planned_Activity__Nb_of_Calls FROM `prj-data-dm-industrial-dev.ODS.ODS_BWH_0000_F006_F_W_mec_mvpmcl01_0001`

where Snapshot_Week_Key = '41.2024'

and Planning_Plant_Key like '%GRU%'

group by meta_run_id

meta_run_id	Planned_Activity__NI
eba8adb1-4d31-4682-9a9f-46d586b38cbb	288.0

BW Result

Snapshot Week	Planned Activity (Nb of Calls)	Planned Activity Executed (Nb of Calls)	Ongoing Activity (Nb of Calls)	Activity Delayed (Nb of Calls)	Activity Delayed (1-30 days) (Nb of Calls)	Activity Delayed
41.2024	284	57	2,207	2,207	295	
42.2024	328	88	2,306	2,306	277	
43.2024	217	118	2,404	2,404	357	
44.2024	265	136	2,384	2,384	351	
45.2024	252	79	2,446	2,446	316	
46.2024	272	148	2,535	2,535	297	
47.2024	350	119	2,580	2,580	281	
48.2024	295	106	2,760	2,760	375	

reference_week	planned_activity_nb_of_calls	planned_activity_executed_nb_of_calls	ongoing_activity_nb_of_calls	activity_delayed_nb_of_calls	activity_delayed_1_30_days_nb_of_calls	activity_delayed
41.2024	288	57	2,207.00	2207	295	
42.2024	328	88	2,306.00	2306	277	
43.2024	217	118	2,404.00	2404	357	
44.2024	265	136	2,384.00	2384	351	
45.2024	252	79	2,446.00	2446	316	
46.2024	272	148	2,535.00	2535	297	
47.2024	350	119	2,580.00	2580	281	
48.2024	295	106	2,760.00	2760	375	
	4	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_effectiveness in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_effectiveness`

where reference_week = '41.2024' and kpi_no = '3.02'

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMCL01_0001_valid = 1 and select the other to 0 in case we don’t want to reload all the queries.

F07: QVMECANO_BW_QRY_MVPMOP04_0001

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.04

- nb_operation_planned
- nb_operation_planned_good_day
- nb_operation_reactives

Validation

```
select reference_week,
sum(nb_operation_planned) nb_operation_planned,
sum(nb_operation_planned_good_day) nb_operation_planned_good_day,
sum(nb_operation_reactives) nb_operation_reactives,
from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`
where kpi_no = '2.06/2.07/2.09'
and reference_week between '26.2024' and '52.2024'
and planning_plant_key like '%GRU%'
group by reference_week
order by reference_week
```

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_efficiency in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_efficiency`

where reference_week = '41.2024' and kpi_no = '2.06/2.07/2.09'

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMOP04_0001_valid = 1 and select the other to 0 in case we don’t want to reload all the queries.

F08: QVMECANO_BW_QRY_MVPMOP04_0002

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.06/2.07/2.09

- nb_operation_scheduled_kpi6
- nb_operation_well_confirmed_kpi6
- nb_operations_in_delay
- remaining_work_backlog_h
- remaining_work_backlog_man_days

Validate

select reference_week,

sum(nb_operation_scheduled_kpi6) nb_operation_scheduled_kpi6,

sum(nb_operation_well_confirmed_kpi6) nb_operation_well_confirmed_kpi6,

sum(nb_operations_in_delay) nb_operations_in_delay,

sum(remaining_work_backlog_h) remaining_work_backlog_h,

sum(remaining_work_backlog_man_days) remaining_work_backlog_man_days,

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '2.04'

and reference_week between '41.2024' and '48.2024'

and planning_plant_key like '%GRU%'

group by reference_week

order by reference_week

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_efficiency in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_efficiency`

where reference_week = '41.2024' and kpi_no = '2.04'

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMOP04_0002_valid = 1 and select the other to 0 in case we don’t want to reload all the queries.

F09: QVMECANO_BW_QRY_MVPMOP04_0003

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.06

- nb_operation_unscheduled
- nb_operation_planned
- nb_operation_planned_good_day
- nb_operation_planned_good_week
- nb_operation_reactives
- hours_of_operations_planned
- hours_of_operations_planned_good_day
- hours_of_operations_planned_good_week
- hours_of_operations_reactives

Validate

select reference_week,

sum(nb_operation_unscheduled) nb_operation_unscheduled,

sum(nb_operation_planned) nb_operation_planned,

sum(nb_operation_planned_good_day) nb_operation_planned_good_day,

sum(nb_operation_planned_good_week) nb_operation_planned_good_week,

sum(nb_operation_reactives) nb_operation_reactives,

sum(hours_of_operations_planned) hours_of_operations_planned,

sum(hours_of_operations_planned_good_day) hours_of_operations_planned_good_day,

sum(hours_of_operations_planned_good_week) hours_of_operations_planned_good_week,

sum(hours_of_operations_reactives) hours_of_operations_reactives,

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '2.06'

and reference_week between '41.2024' and '48.2024'

and planning_plant_key like '%GRU%'

group by reference_week

order by reference_week

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_efficiency in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_efficiency`

where reference_week = '41.2024' and kpi_no = '2.06'

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMOP04_0003_valid = 1 and select the other to 0 in case we don’t want to reload all the queries.

F11: QVMECANO_BW_QRY_MVPMOP04_0005

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.08

- remaining_work_hours
- available_capacity
- available_capacity_unit

Validate

DPL

```
with temp as(

select reference_week, work_center,

sum(remaining_work_hours) remaining_work_hours,

max(available_capacity) available_capacity,

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '2.08'

and reference_week between '26.2024' and '50.2024'

and planning_plant_key like '%GRU%'

group by reference_week,work_center)

select reference_week,

sum(remaining_work_hours) remaining_work_hours,

sum(available_capacity) available_capacity,

from temp

group by reference_week

order by reference_week
```

ODS

```
select SnapShot__Week__Key, meta_run_id, sum(safe_cast(Remaining_Work__h as float64)), sum(safe_cast(Available_capacity as float64))

from `prj-data-dm-industrial-dev.ODS.ODS_BWH_0000_F011_F_W_mec_mvpmop04_0005`

where Planning_Plant_Key like '%GRU%'

and SnapShot__Week__Key like '%2024%'

group by SnapShot__Week__Key, meta_run_id

order by SnapShot__Week__Key
```

Query Technical Nam	QVMECANO_BW_QRY_MVPMOP04_0005						
SnapShot (Week)	26.2024 - 50.2024						
Planning Plant	WP1_400/GRU						
Snapshot Frequency	WEEKLY						
	Remaining Work (h)	Available capacity				CHECK	
SnapShot (Week)	H	H	reference_week	remaining_work_h	available_capac	remaining_work_hours	available_capacity
26.2024	2,001.500	2,790.000	26.2024	2001.5	2790	0.000	0.000
27.2024	1,361.000	2,600.000	27.2024	1361	2600	0.000	0.000
28.2024	1,605.000	2,310.000	28.2024	1605	2310	0.000	0.000
29.2024	1,667.000	2,550.000	29.2024	1667	2550	0.000	0.000
30.2024	1,788.000	2,160.000	30.2024	1788	2160	0.000	0.000
31.2024	1,713.000	2,290.000	31.2024	1713	2290	0.000	0.000
32.2024	1,924.000	2,600.000	32.2024	1924	2600	0.000	0.000
33.2024	2,443.000	2,730.000	33.2024	2443	2730	0.000	0.000
34.2024	1,739.000	2,310.000	34.2024	1739	2310	0.000	0.000
35.2024	1,536.500	2,410.000	35.2024	1536.5	2410	0.000	0.000
36.2024	1,388.000	2,690.000	36.2024	1388	2690	0.000	0.000
37.2024	1,648.000	2,600.000	37.2024	1648	2600	0.000	0.000
38.2024	1,560.000	2,600.000	38.2024	1560	2600	0.000	0.000
39.2024	1,493.000	2,600.000	39.2024	1493	2600	0.000	0.000
40.2024	1,797.000	2,360.000	40.2024	1797	2360	0.000	0.000
41.2024	1,665.000	2,680.000	41.2024	1665	2680	0.000	0.000
42.2024	1,586.500	2,680.000	42.2024	1586.5	2680	0.000	0.000
43.2024	2,026.500	2,600.000	43.2024	2026.5	2600	0.000	0.000
44.2024	1,843.000	2,310.000	44.2024	1843	2310	0.000	0.000
45.2024	1,905.000	2,790.000	45.2024	1905	2790	0.000	0.000
46.2024	1,832.000	2,680.000	46.2024	1832	2680	0.000	0.000
47.2024	2,318.000	3,120.000	47.2024	2318	3120	0.000	0.000
48.2024	799.500	2,650.000	48.2024	799.5	2650	0.000	0.000
49.2024	1,749.500	2,720.000	49.2024	1749.5	2720	0.000	0.000
50.2024	2,051.000	3,180.000	50.2024	2051	3180	0.000	0.000

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_efficiency in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_efficiency`

where reference_week = '41.2024' and kpi_no = '2.08'

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMOP04_0005_valid = 1 and select the other to 0 in case we don’t want to reload all the queries.

F12_QVMECANO_BW_QRY_MVPMOP04_0006

Selection parameter = WEEK(yyyyww) / Need to delete max reference date

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.13

- nb_operation_planned
- nb_operation_planned_good_day
- nb_operation_reactives

Reload 1 week file size around 12 MB

Loading time around 6 min

Validation

select reference_week,

sum(nb_operation_planned) nb_operation_planned,

sum(nb_operation_planned_good_day) nb_operation_planned_good_day,

sum(nb_operation_reactives) nb_operation_reactives,

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '2.13'

and reference_week between '41.2024' and '48.2024'

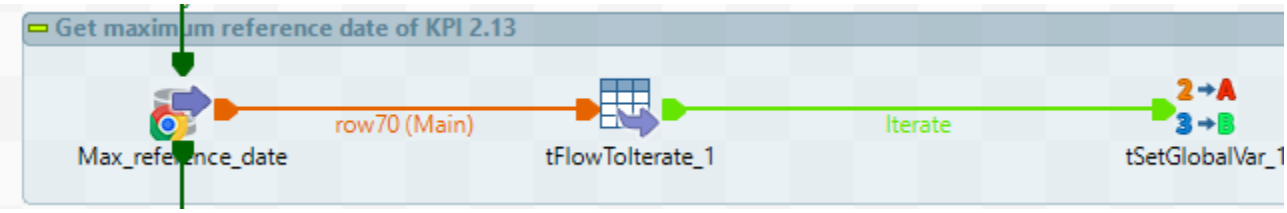
and planning_plant_key like '%GRU%'

group by reference_week

order by reference_week

The loading will get the data from ODS_BWH_0000_F012_F_W_mec_mvpmop04_0006 only the reference_date > max(reference_date) from DM. FACT_maintenance_efficiency. Therefore, it will load only the new data by using component below

SELECT max(reference_date) AS max_reference_date FROM DM.FACT_maintenance_efficiency WHERE kpi_no='2.13'



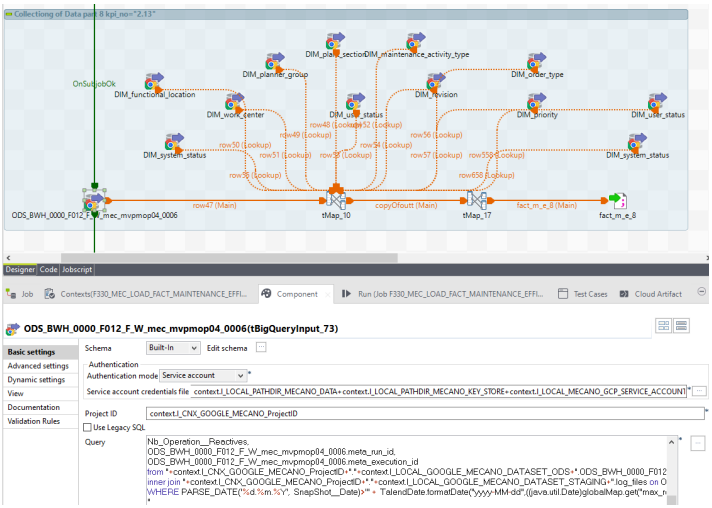
Select xxxx from ODS.ODS_BWH_0000_F012_F_W_mec_mvpmop04_0006

inner join STG.log_files on ODS_BWH_0000_F012_F_W_mec_mvpmop04_0006.meta_run_id=log_files.meta_run_id

and log_files.meta_file_name='MEC_IT_0000_0000_F012_"+context.Business_date+"_0000_F_W_MEC_MVPMOP04_0006.csv'

and log_files.meta_status in ('OK','NOK')

WHERE PARSE_DATE('%d.%m.%Y', SnapShot__Date)>'" + TalendDate.formatDate("yyyy-MM-dd",((java.util.Date)globalMap.get("max_ref_date")))



Reload

For example to reload 45.2024 (data of date 2024-11-08 is missing) and current week is 48.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_efficiency in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_efficiency`

where reference_date >= '2024-11-04' and kpi_no = '2.13'

⚠️ The selection of reference_date must be matched by the week. For example, if we want to reload 2024-11-08, which is missing. We need to select refe rence_date >= '2024-11-04' (Monday)

This is because we can reload it from week 45.2024 (2024-11-04 to 2024-11-10)

3. Change the variable

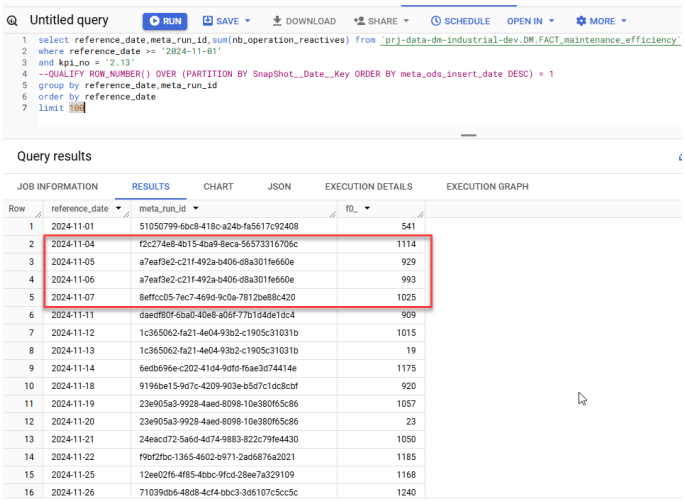
l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

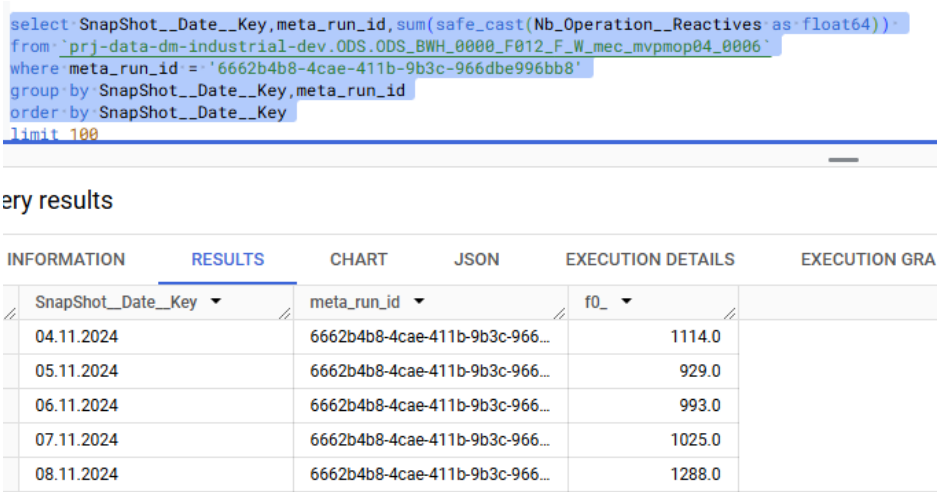
l_LOCAL_VAR_HISTO_WEEK_END = 45

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMOP04_0006_valid = 1 and select the other to 0 in case we don’t want to reload all the queries.

Before



After



BW query result.

Query Technical Nam	QVMECANO_BW_QRY_MVPMOP04_0006				
SnapShot (Week)	45.2024 - 48.2024				
Snapshot Frequency	DAILY				
SnapShot (Week)	45.2024				
SnapShot (Date)	04.11.2024	05.11.2024	06.11.2024	07.11.2024	08.11.2024
	Nb Operation (Reactives)	Nb Operation (Reactives)	Nb Operation (Reactives)	Nb Operation (Reactives)	Nb Operation (Reactives)
	1,114	929	993	1,025	1,288

5. Repeat changing parameter on point 3 until current week in this case 48.204

⚠️ This query can't select loading in between since it is required to delete all new data first.

F13: QVMECANO_BW_QRY_MVPMOR04_0001

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.12/2.03/2.14

- nb_of_orders_in_progress
- kpi_2_11_nb_of_orders_executed_with_a_required_end_date
- kpi_2_11_nb_of_orders_executed_before_required_date
- kpi_2_11_nb_of_orders_executed_without_a_required_end_date
- kpi_2_11_number_of_orders_executed

Validate

select reference_week,

sum(nb_of_orders_in_progress) nb_of_orders_in_progress,

sum(kpi_2_11_nb_of_orders_executed_with_a_required_end_date) kpi_2_11_nb_of_orders_executed_with_a_required_end_date,

sum(kpi_2_11_nb_of_orders_executed_before_required_date) kpi_2_11_nb_of_orders_executed_before_required_date,

sum(kpi_2_11_nb_of_orders_executed_without_a_required_end_date) kpi_2_11_nb_of_orders_executed_without_a_required_end_date,

sum(kpi_2_11_number_of_orders_executed) kpi_2_11_number_of_orders_executed,

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '2.12/2.03/2.14'

and reference_week between '41.2024' and '48.2024'

and planning_plant_key like '%GRU%'

group by reference_week

order by reference_week

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_efficiency in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_efficiency`

where reference_week = '41.2024' and kpi_no = '2.12/2.03/2.14'

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMOR04_0001_valid = 1 and select the other to 0 in case we don’t want to reload all the queries

F14: QVMECANOBW_QRY_MVPMOR01_0002

Selection parameter = DAY(yyyyMMdd,yyyyMMdd)

Fact table = FACT_maintenance_effectiveness

This query will impact on kpi_no = 3.03

- work_orders

Validate

DPL

```
select reference_date,
sum(work_orders) work_orders,
from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`
where kpi_no = '3.03'
and reference_date between '2024-11-07' and '2024-12-01'
and planning_plant_key like '%GRU%'
group by reference_date
order by reference_date
```

⚠️ reference_date in this query was changed mapping to created_on

ODS

```
SELECT Reference_date_Key, meta_business_date,  sum(safe_cast(Number_of_Work_Orders as float64))  Number_of_Work_Orders
FROM `prj-data-dm-industrial-dev.ODS.ODS_BWH_0000_F014_F_W_mec_mvpmor01_0002`
where PM_planning_plant_Key like '%GRU%'
and Created_on like '%2024%'
group by Created_on, meta_business_date
order by Created_on
```

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_effectiveness in prj-data-dm-industrial-dev

```
delete from `DM.FACT_maintenance_effectiveness`

where reference_day between '2024-10-07' to '2024-10-11' and kpi_no = '3.03'
```

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_MVPMOR01__YYYYMMDD_FROM = 20241007

l_LOCAL_VAR_MVPMOR01__YYYYMMDD_TO = 20241011 ***Must NOT over current Monday

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMOR01_0002_valid = 1 and select the other to 0 in case we don’t want to reload all the queries.

F15: QV_BW_QRY_MVPMOP02_0010

Selection parameter = WEEK(yyyyww)

Fact table = FACT_maintenance_efficiency

This query will impact on kpi_no = 2.11

- barcode_scan_rate
- nb_operations_well_scanned
- nb_operations_completed

Validate

```
select reference_week,

sum(barcode_scan_rate) barcode_scan_rate,

sum(nb_operations_well_scanned) nb_operations_well_scanned,

sum(nb_operations_completed) nb_operations_completed

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '2.11'

and reference_week between '41.2024' and '48.2024'

and planning_plant_key like '%GRU%'

group by reference_week

order by reference_week
```

Reload

For example to reload 41.2024

1. Stop the loading in TMC.

2. it is required to delete the data from DM.FACT_maintenance_efficiency in prj-data-dm-industrial-dev

delete from `DM.FACT_maintenance_efficiency`

where reference_week = '41.2024' and kpi_no = '2.11'

3. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_HISTO_YEAR = 2024

l_LOCAL_VAR_HISTO_WEEK_END = 41

4. Control the query to be run on the “valid” l_VAR_mecano_xtract_MVPMOP02_0010_valid = 1 and select the other to 0 in case we don’t want to reload all the queries

F16: QVMECANO_BW_QRY_MVPMCO01_0001

Selection parameter = MONTH(yyyy0MM,yyyy0MM)

Fact table = FACT_maintenance_dash_strategic

This query will impact on kpi_no = 1.10

- actual_amount
- plan_amount

This query will select by month and the job will load the new data from ODS to WDL dataset in temp table first. Then, it will select the date from WDP to delete on the FACT_maintenance_dash_strategic. Therefore, no need to select delete.

DELETE FROM DM.FACT_maintenance_strategic

WHERE ref_date IN (SELECT DISTINCT CAST(ref_date as Date format 'MON YYYY') as ref_date FROM WDL. FACT_maintenance_dash_strategic_cost_budget_tmp)

⚠️ WDL.FACT_maintenance_dash_strategic_cost_budget_tmp table will have data from the last loading from ODS (truncate)

Validate

select reference_date,currency_key,currency_type_key,

sum(actual_amount) actual_amount,

sum(plan_amount) plan_amount,

from `prj-data-maintenance-dash-dev.DPL.V_REP_FACT_maintenace_dash`

where kpi_no = '1.10'

and reference_date between '2024-09-01' and '2024-12-01'

and planning_plant_key like '%GRU%'

group by reference_date,currency_key,currency_type_key

order by reference_date,currency_type_key

Reload

For example, need to reload Oct 2024

1. Stop the loading in TMC.

2. Change the variable

l_LOCAL_VAR_RECOVERY_MODE = true

l_LOCAL_VAR_MVPMCO01_0001_HIST_K4YYYY0MM_PREV = 2024010

l_LOCAL_VAR_MVPMCO01_0001_HIST_K4YYYY0MM_CURR = 2024010

3. Control the query to be run on the “valid” l_VAR_mecano_xtract_mvpmco01_valid = 1 and select the other to 0 in case we don’t want to reload all the queries