GCP Documentation

This document provides an overview of the two main **Google Cloud Platform (GCP)** services leveraged in this project: **BigQuery** and **Dataplex**. These services work together to enable efficient data storage, processing, and quality monitoring.

- **BigQuery** is GCP's fully managed, serverless data warehouse designed for fast SQL-based analysis on large datasets. It is used to store, organize, and process data ingested from various source systems. BigQuery serves as the central data repository for this project.
- **Dataplex** is GCP's intelligent data fabric solution, which allows for unified data management, governance, and quality control across distributed data. In this project, Dataplex is responsible for the execution of data quality rules, ensuring the consistency and reliability of data processed and stored in BigQuery.

Project Hierarchy

The project structure within GCP has been organized to ensure clear separation between domains and environments, while supporting an efficient data ingestion and data quality validation process.

Domain-specific Projects

For each domain within the **Data Quality Monitoring Tool (DQMT)**, a dedicated GCP project exists for every environment:

- Development (*dev*)
- Testing (*test*)
- Pre-Production (*ppd*)
- Production (*prod*)

Each project serves as the location where:

- The data is ingested from source systems.
- The initial views used for data processing and quality checks are created.

Domain Projects List

Domain \ Environment	Development	Testing	Pre-Production	Production
Human Resources	*prj-data-dm-hr-dev*	*prj-data-dm-hr-test*	*prj-data-dm-hr-ppd*	*prj-data-dm-hr-prod*
Structure & Shared	*prj-data-dm-structure-dev*	*prj-data-dm-structure-test*	*prj-data-dm-structure-ppd*	*prj-data-dm-structure-prod*
Finance	*prj-data-dm-finance-dev*	*prj-data-dm-finance-test*	*prj-data-dm-finance-ppd*	*prj-data-dm-finance-prod*
Marketing	*prj-data-dm-marketing-dev*	*prj-data-dm-marketing-test*	*prj-data-dm-marketing-ppd*	*prj-data-dm-marketing-prod*
Procurement	*prj-data-dm-procurement-dev*	*prj-data-dm-procurement-test*	*prj-data-dm-procurement-ppd*	*prj-data-dm-procurement-prod*

Data Quality & Final Views Projects

In addition to the domain-specific projects, a separate set of projects is used to:

- Import the final views generated by the domain projects.
- Define and execute data quality rules through **Dataplex**.

Environment	Project
Development	*prj-data-dq-selfservice-dev*
Testing	*prj-data-dq-selfservice-test*
Pre-Production	*prj-data-dq-selfservice-ppd*
Production	*prj-data-dq-selfservice-prod*

Project Support Teams

The successful implementation and maintenance of the DQMT solution is supported by a dedicated team, each contributing with specialized skills across different areas of the project:

Name	Role	Scope
Ahmed Elsayed	Data Architect	Architecture and design of data pipelines and models
Maria João Pimenta	Data Engineer	Data ingestion, transformation, and automation

Ram Atirajyam	Data Engineer	Data ingestion, transformation, and automation
Ibrahim Mansey	Visualization Engineer	Data visualization and dashboard development
Mohamed Hazem	Visualization Engineer	Data visualization and dashboard development
Rawan Shehab	Functional Analyst	Business analysis and functional requirements

Project Access and Service Accounts

Google Groups

The following Google Groups have access to the DQMT GCP projects, organized by role:

Group	Purpose	Email
Data Architects Group	Access for Data Architects	gcp-da-prj-data-dq-selfservice-nonprod@solvay.com
Data Engineers Group	Access for Data Engineers	gcp-de-prj-data-dq-selfservice-nonprod@solvay.com
Data Analysts / Business Analysts	No specific group	—
Data Developers Group	Access for Data Developers	gcp-dv-prj-data-dq-selfservice@solvay.com

Note: No new Google Groups were specifically created for this project.

Service Accounts

The following Service Accounts are used within the DQMT project for process automation and integration:

Service Account	Description
sbs-is-appli-qlikview.support@solvay.com	QlikView integration and support
sa-talend@prj-data-dq-selfservice-dev.iam.gserviceaccount.com	Talend jobs execution
sa-cloudfunction@prj-data-dq-selfservice-dev.iam.gserviceaccount.com	Cloud Functions automation

BigQuery

Projects, Datasets, Tables and Views

Domain Projects

Projects	View	Source Tables/Views
	DS_prj_dqkpi.V_BusinessUnit	*ODS.ODS_SFC_0000_F001_F_W_FOBusinessUnit*
	DS_prj_dqkpi.V_CcHrFin	*ODS.ODS_SFC_0000_F001_F_W_FOCostCenter* *ODS.* *ODS_BWH_0000_F001_F_W_BW_QRY_C_COSTCTR_0001*
	DS_prj_dqkpi.V_Company	*ODS.ODS_SFC_0000_F001_F_W_FOCompany*
	DS_prj_dqkpi.V_CostCenter	*ODS.ODS_SFC_0000_F001_F_W_FOCostCenter*
	DS_prj_dqkpi.V_EmpBusiness	*DS_prj_dqkpi.V_EmpJob* *DS_prj_dqkpi.V_BusinessUnit*
	DS_prj_dqkpi.V_EmpCompensation	*ODS.ODS_SFC_0000_F001_F_W_EmpCompensation* *DS_prj_dqkpi.V_PickListValueV2*
	DS_prj_dqkpi.V_EmpCompensationJob	*DS_prj_dqkpi.V_EmpCompensation* *DS_prj_dqkpi.V_EmpJob*
	DS_prj_dqkpi.V_EmpJob	*DS_prj_dqkpi.V_PickListValueV2* *DS_prj_dqkpi.V_FOLocation* *DS_prj_dqkpi.V_EmpJobCoded*
	DS_prj_dqkpi.V_EmpJobCoded	*ODS.ODS_SFC_0000_F001_F_D_EmpJob*

prj-data-dm-hr-[env]	*DS_prj_dqkpi.V_EmpJob_CC*	*DS_prj_dqkpi.V_EmpJob* *DS_prj_dqkpi.V_CostCenter*
	DS_prj_dqkpi.V_EmpJob_CompensationGroupSumCalc	*ODS.* *ODS_SFC_0000_F001_F_W_empCompensationGroupSumCalculatedNav* *DS_prj_dqkpi.V_EmpJob*
	DS_prj_dqkpi.V_EmpJob_LocGroup	*DS_prj_dqkpi.V_EmpJob* *DS_prj_dqkpi.V_LocationGroup*
	DS_prj_dqkpi.V_EmpJob_Location	*DS_prj_dqkpi.V_EmpJob* *DS_prj_dqkpi.V_FOLocation*
	DS_prj_dqkpi.V_FOLocation	*ODS.ODS_SFC_0000_F001_F_W_FOLocation*
	DS_prj_dqkpi.V_LocationGroup	*ODS.ODS_SFC_0000_F001_F_W_FOLocationGroup*
	DS_prj_dqkpi.V_PickListValueV2	*ODS.ODS_SFC_0000_F001_F_W_PickListValueV2*
	DS_prj_dqkpi.V_Position	*ODS.ODS_SFC_0000_F001_F_W_Position* *DS_prj_dqkpi.V_FOLocation*
	DS_prj_dqkpi.V_PositionJobInfo	*DS_prj_dqkpi.V_EmpJob* *DS_prj_dqkpi.V_Position*
prj-data-dm-structure-[env]	DS_prj_sls_dataquality_kpi.V_PF1	*ODS.ODS_SPF_0000_F001_F_W_T001W* *ODS.ODS_SPF_0000_F001_F_W_T001K*
	DS_prj_sls_dataquality_kpi. *V_PF1_MVKE_T001W_TVKOT_T001K*	*ODS.ODS_SPF_0000_F001_F_W_MVKE* *ODS.ODS_SPF_0000_F001_F_W_T001W* *ODS.ODS_SPF_0000_F001_F_W_TVKOT*
	DS_prj_sls_dataquality_kpi. *V_PF1_MVKE_T001W_TVKOT_T001K_U*	*DS_prj_sls_dataquality_kpi.* *V_PF1_MVKE_T001W_TVKOT_T001K*
	DS_prj_sls_dataquality_kpi.V_WP1	*ODS.ODS_SPW_0000_F001_F_W_T001W* *ODS.ODS_SPW_0000_F001_F_W_T001K*
	DS_prj_sls_dataquality_kpi. *V_WP1_MVKE_T001W_TVKOT_T001K*	*ODS.ODS_SPW_0000_F001_F_W_MVKE* *ODS.ODS_SPW_0000_F001_F_W_T001W* *ODS.ODS_SPW_0000_F001_F_W_TVKOT*
	DS_prj_sls_dataquality_kpi. *V_WP1_MVKE_T001W_TVKOT_T001K_U*	*DS_prj_sls_dataquality_kpi.* *V_WP1_MVKE_T001W_TVKOT_T001K*
prj-data-dm-finance-[env]	*DS_prj_sls_dataquality_kpi.V_COSTCTR_0001*	*ODS.* *ODS_BWH_0000_F001_F_W_BW_QRY_C_COSTCTR_0001*
prj-data-dm-marketing-[env]	*DS_prj_sls_dataquality_kpi.V_PF1_KNA1*	*ODS.ODS_SPF_0000_F001_F_W_KNA1*
	DS_prj_sls_dataquality_kpi.V_WP1_KNA1	*ODS.ODS_SPW_0000_F001_F_W_KNA1*
prj-data-dm-procurement-[env]	*DS_sls_dataquality_kpi.V_PF1_MARC*	*ODS.ODS_SPF_0000_F001_F_W_MARC* *STG.log_tables*
	DS_sls_dataquality_kpi.V_WP1_MARC	*ODS.ODS_SPW_0000_F001_F_W_MARC* *STG.log_tables*

[env] is one of the following: dev, test, ppd, prod

Selfservice Project

Project	Table/View	Source Tables/Views
	DM.DIM_date	-
	DM.DIM_domain	-
	DM.DIM_kpi_dimension	-
	DM.DIM_quality_rule	-
	DM.Dataplex_quality	-
	DM.FACT_data_quality	-
	DM.FACT_failed_records	-

prj-data-dm-selfservice-[env]	DPL.V_DIM_DATE	prj-data-dm-selfservice-[env].DM.DIM_date
	DPL.V_DIM_DOMAIN	prj-data-dm-selfservice-[env].DM.DIM_domain
	DPL.V_DIM_KPI_DIMENSION	prj-data-dm-selfservice-[env].DM.DIM_kpi_dimension
	DPL.V_FACT_QUALITY	prj-data-dm-selfservice-[env].DM.FACT_data_quality prj-data-dm-selfservice-[env].DM.FACT_failed_records
	DPL.V_RULE_QUALITY	prj-data-dm-selfservice-[env].DM.DIM_quality_rule prj-data-dm-selfservice-[env].DM.DIM_domain prj-data-dm-selfservice-[env].DM.DIM_kpi_dimension
	DataOcean_dataquality_kpi. V_ActiveEmployeeInActiveLegalEntity	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpJob prj-data-dm-hr-[env].DS_prj_dqkpi.V_Company
	DataOcean_dataquality_kpi.V_COSTCTR_0001	prj-data-dm-finance-[env].DS_prj_sls_dataquality_kpi. V_COSTCTR_0001
	DataOcean_dataquality_kpi. V_COSTCTR_0001_ProfitCenter	prj-data-dm-finance-[env].DS_prj_sls_dataquality_kpi. V_COSTCTR_0001
	DataOcean_dataquality_kpi.V_EmpBusiness	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpBusiness
	DataOcean_dataquality_kpi. V_EmpCompensationJob	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpCompensationJob
	DataOcean_dataquality_kpi.V_EmpJob_CC	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpJob_CC
	DataOcean_dataquality_kpi.V_EmpJob_Cadres	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpJob
	DataOcean_dataquality_kpi. V_EmpJob_Compensation_AIS	prj-data-dm-hr-[env].DS_prj_dqkpi. V_EmpJob_CompensationGroupSumCalc
	DataOcean_dataquality_kpi. V_EmpJob_Compensation_AIS_ANSG	prj-data-dm-hr-[env].DS_prj_dqkpi. V_EmpJob_CompensationGroupSumCalc
	DataOcean_dataquality_kpi. V_EmpJob_Compensation_ANSG	prj-data-dm-hr-[env].DS_prj_dqkpi. V_EmpJob_CompensationGroupSumCalc
	DataOcean_dataquality_kpi. V_EmpJob_External_Pay	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpJob
	DataOcean_dataquality_kpi. V_EmpJob_External_Position	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpJob
	DataOcean_dataquality_kpi.V_EmpJob_LocGroup	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpJob_LocGroup
	DataOcean_dataquality_kpi.V_EmpJob_Location	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpJob_Location
	DataOcean_dataquality_kpi.V_EmpJob_Supervisor	prj-data-dm-hr-[env].DS_prj_dqkpi.V_EmpJob
	DataOcean_dataquality_kpi.V_FOLocation	prj-data-dm-hr-[env].DS_prj_dqkpi.V_FOLocation
	DataOcean_dataquality_kpi.V_PF1	prj-data-dm-structure-[env].DS_prj_sls_dataquality_kpi.V_PF1
	DataOcean_dataquality_kpi.V_PF1_KNA1	prj-data-dm-marketing-[env].DS_prj_sls_dataquality_kpi.V_PF1_KNA1
	DataOcean_dataquality_kpi.V_PF1_MARC	prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi. V_proc_PF1_MARC prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1
	DataOcean_dataquality_kpi. V_PF1_MVKE_T001W_TVKOT_T001K_U	prj-data-dm-structure-[env].DS_prj_sls_dataquality_kpi. V_PF1_MVKE_T001W_TVKOT_T001K_U
	DataOcean_dataquality_kpi.V_PositionJobInfo	prj-data-dm-hr-[env].DS_prj_dqkpi.V_PositionJobInfo
	DataOcean_dataquality_kpi.V_PositionJobInfo_BU	prj-data-dm-hr-[env].DS_prj_dqkpi.V_PositionJobInfo
	DataOcean_dataquality_kpi.V_PositionJobInfo_CC	prj-data-dm-hr-[env].DS_prj_dqkpi.V_PositionJobInfo
	DataOcean_dataquality_kpi.V_WP1	prj-data-dm-structure-[env].DS_prj_sls_dataquality_kpi.V_WP1
	DataOcean_dataquality_kpi.V_WP1_KNA1	prj-data-dm-marketing-[env].DS_prj_sls_dataquality_kpi.V_WP1_KNA1
	DataOcean_dataquality_kpi.V_WP1_MARC	prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi. V_proc_WP1_MARC prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1

	DataOcean_dataquality_kpi. V_WP1_MVKE_T001W_TVKOT_T001K_U	*prj-data-dm-structure-[env].DS_prj_sls_dataquality_kpi. V_WP1_MVKE_T001W_TVKOT_T001K_U*
	DataOcean_dataquality_kpi.V_proc_PF1_MARC	*prj-data-dm-procurement-[env].DS_sls_dataquality_kpi.V_PF1_MAR*
	DataOcean_dataquality_kpi.V_proc_WP1_MARC	*prj-data-dm-procurement-[env].DS_sls_dataquality_kpi.V_WP1_MARC*

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Routines

Project	Routine	Output
prj-data-dm-selfservice-[env]	*DM.insert_DIM_Domain*	Populates the Data Model Dimension Table *DM.DIM_domain*
	DM.insert_DIM_kpi_dimension	Populates the Data Model Dimension Table *DM.DIM_kpi_dimension*
	DM.RT_DPtoDMmapping_Datespecific	Populates the Data Model Fact Tables: *DM.DIM_date* *DM.DIM_quality_rule* *DM.FACT_data_quality* *DM.FACT_failed_records*

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Dataplex

Data Profile Scan

Data Profile Scan	Scanned Table
V_COSTCTR_0001-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_COSTCTR_0001*
V_COSTCTR_0001_PROFITCENTER-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_COSTCTR_0001_ProfitCenter*
V_EMPBUSINESS-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpBusiness*
V_POSITIONJOBINFO_BU-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PositionJobInfo_BU*
V_EMPJOB_COMPENSATION_AIS-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Compensation_AIS*
V_EMPJOB_COMPENSATION_ANSG-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Compensation_ANSG*
V_EMPCOMPENSATIONJOB-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpCompensationJob*
V_EMPJOB_CADRES-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Cadres*
V_EMPJOB_CC-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_CC*
V_POSITIONJOBINFO_CC-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PositionJobInfo_CC*
V_EMPJOB_EXTERNAL_PAY-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_External_Pay*
V_EMPJOB_EXTERNAL_POSITION-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_External_Position*
V_POSITIONJOBINFO-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PositionJobInfo*
V_EMPJOB_COMPENSATION_AIS_ANSG-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Compensation_AIS_ANSG*
V_ACTIVEEMPLOYEEINACTIVELEGALENTITY-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_ActiveEmployeeInActiveLegalEntity*
V_EMPJOB_LOCGROUP-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_LocGroup*
V_EMPJOB_LOCATION-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Location*
V_EMPJOB_SUPERVISOR-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Supervisor*
V_PF1_KNA1-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_KNA1*
V_WP1_KNA1-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_KNA1*
V_PF1_MARC-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_MARC*
V_WP1_MARC-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_MARC*

V_PF1_MVKE_T001W_TVKOT_T001K_U-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi. V_PF1_MVKE_T001W_TVKOT_T001K_U*
V_WP1_MVKE_T001W_TVKOT_T001K_U-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi. V_WP1_MVKE_T001W_TVKOT_T001K_U*
V_PF1-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1*
V_WP1-SCAN	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1*

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Data Quality Scans

Data Quality Scan	Rule	Domain	KPI Dimension	Scanned Table	Scanned Column	Failed Records Query
Accuracy of assigning "Inactive" Cost centers to the EDISCXX node	fin-accuracy-inactive-cc-ediscxx-node	Finance	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_COSTCTR_0001*	ZCBSLevel4Name	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_COSTCTR_0001` WHERE NOT (ZCBSLevel4Name != "DISCONTINUED" AND ZCBSLevel4Name != "");*
Active CCs to L4 in the ZCBS hierarchy	fin-active-cc-l4-zcbs-hierarchy	Finance	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_COSTCTR_0001*	ZCBSLevel4Code	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_COSTCTR_0001` WHERE NOT (ZCBSLevel4Code != '#' OR PARSE_DATE('%d.%m.%Y', CreationDate) > (CURRENT_DATE() - INTERVAL 3 DAY));*
All cost centers are assigned to a BSA	fin-all-cc-assigned-bsa	Finance	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_COSTCTR_0001*	BSAName	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_COSTCTR_0001` WHERE NOT (BSAName != "#" OR PARSE_DATE ('%d.%m.%Y', CreationDate) > (CURRENT_DATE() - INTERVAL 3 DAY));*
All cost centers are assigned to an active GBU Cluster	fin-cc-active-gbu-cluster	Finance	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_COSTCTR_0001*	ClusterCode	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_COSTCTR_0001` WHERE NOT (ClusterCode != "OUT" AND ClusterCode != " ");*
Cost Centers with Profit Centers	fin-cc-profitcenters	Finance	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_COSTCTR_0001_ProfitCenter*	ProfitCenterName	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_COSTCTR_0001_ProfitCenter` WHERE NOT (ProfitCenterName != "Not assigned" AND ProfitCenterName NOT LIKE "% /Not assigned");*
SRM7 responsible codification	fin-srm7-responsible-codification	Finance	Conformity	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_COSTCTR_0001*	PositionCode	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_COSTCTR_0001` WHERE NOT ((LENGTH(PositionCode) = 8 AND PositionCode LIKE '500%'));*
Business Unit is active	hr-business-unit-is-active	Human Resources	Conformity	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpBusiness*	BusinessUnitStatus	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_EmpBusiness` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Dormant') AND NOT(BusinessUnitStatus='A');*
Business Unit is the same at Position and Job Info	hr-business-unit-same-position-job-info	Human Resources	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_PositionJobInfo_BU*	BusinessUnitEntityGrouping	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_PositionJobInfo_BU` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND NOT (BusinessUnitEntityGrouping=BusinessUnit);*
Cadres have annual indicative salary	hr-cadres-have-annual-indicative-salary	Human Resources	Completeness	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Compensation_AIS*	AnnualIndicativeSalary	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Compensation_AIS` WHERE EmployeeStatus IN ('Active', 'Active Leave') AND WorkforceCategory IN ('Cadre', 'Sales Cadre') AND NOT (AnnualIndicativeSalary IS NOT NULL);*
Cadres have Annual Salary (9ANS)	hr-cadres-have-annual-salary-9ANS	Human Resources	Completeness	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Compensation_ANSG*	AnnualSalary9ANSGGlobal	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Compensation_ANSG` WHERE EmployeeStatus IN ('Active', 'Active Leave') AND WorkforceCategory IN ('Cadre', 'Sales Cadre') AND NOT (AnnualSalary9ANSGGlobal IS NOT NULL);*

Cadres should always have a bonus plan assigned	hr-cadres-have-bonus-plan-assigned	Human Resources	Completeness	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpCompensationJob*	BonusPlan	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpCompensationJob` WHERE EmployeeStatus IN ('Active', 'Active Leave') AND WorkforceCategory IN ('Cadre', 'Sales Cadre') AND NOT (BonusPlan IS NOT NULL);*
Cadres have Pay grade between S15 and S18	hr-cadres-have-pay-grade-between-s15-and-s18	Human Resources	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Cadres*	PayGrade	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_EmpJob_Cadres` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND EmploymentType IN ('M0', 'M1', 'M3', 'M4', 'M5', 'MM', 'MR', 'MS', 'MT', 'NI', 'V1', 'VL', 'VT', 'UA') AND NOT (PayGrade IN ('S15', 'S16', 'S17', 'S18'));*
Cadres have Pay grade between S19 and S22	hr-cadres-have-pay-grade-between-s19-and-s22	Human Resources	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Cadres*	PayGrade	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_EmpJob_Cadres` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND EmploymentType IN ('N0', 'N1', 'N2', 'N3', 'N4', 'N5', 'N6', 'NM', 'NR', 'NS', 'NT', 'V1', 'VL', 'VT', 'UA') AND NOT (PayGrade IN ('S19', 'S20', 'S21', 'S22'));*
Cadres have Pay grade between S23 and S27	hr-cadres-have-pay-grade-between-s23-and-s27	Human Resources	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Cadres*	PayGrade	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_EmpJob_Cadres` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND EmploymentType IN ('O0', 'O1', 'O2', 'O3', 'O4', 'OS', 'P0', 'P3', 'P4', 'Q0', 'Q4', 'QB', 'QC', 'V1', 'VL', 'VT', 'ZB', 'UA') AND NOT(PayGrade IN ('S23', 'S24a', 'S24b', 'S25a', 'S25b', 'S26a', 'S26b', 'S27'));*
Cost Centre is active	hr-costcenter-is-active	Human Resources	Conformity	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_CC*	Status	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_EmpJob_CC` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND NOT(Status = 'A');*
Cost Center is the same at Position and Job Info	hr-costcenter-same-position-jobinfo	Human Resources	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_PositionJobInfo_CC*	CostCenter	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_PositionJobInfo_CC` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND NOT(CostCenter=CostCenterPosition);*
External workforce have Pay Grade "Not applicable"	hr-external-workforce-paygrade-na	Human Resources	Accuracy	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_External_Pay*	PayGrade	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_External_Pay` WHERE EmployeeStatus IN ('Active', 'Active Leave') AND WorkforceCategory IN ('Trainees & Apprentices', 'Contractor') AND NOT(PayGrade = 'N/A');*
External workforce have Position Grade "Not applicable"	hr-external-workforce-postion-grade-na	Human Resources	Accuracy	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_External_Position*	PositionGrade	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_External_Position` WHERE EmployeeStatus IN ('Active', 'Active Leave') AND WorkforceCategory IN ('Trainees & Apprentices', 'Contractor') AND NOT(PositionGrade='N/A');*
Incumbents Position is active	hr-incumbent-position-is-active	Human Resources	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_PositionJobInfo*	PositionStatus	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi.V_PositionJobInfo` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND NOT(PositionStatus='A');*
Indicative Salary amount is the same as the Annual Salary (9ans)	hr-indicative-salary-amount-same-annual-salary	Human Resources	Consistency	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Compensation_AIS_ANSG*	AnnualIndicativeSalary	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_EmpJob_Compensation_AIS_ANSG` WHERE EmployeeStatus IN ('Active', 'Active Leave') AND WorkforceCategory IN ('Cadre', 'Sales Cadre') AND NOT(ABS(CAST(AnnualSalary9ANSGGlobal AS FLOAT64) - CAST(AnnualIndicativeSalary AS FLOAT64)) < 2);*
Legal Entity is active	hr-legal-entity-is-active	Human Resources	Conformity	*prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_ActiveEmployeeInActiveLegalEntity*	Company Status	*SELECT * FROM `prj-data-dq-selfservice-[env]. DataOcean_dataquality_kpi. V_ActiveEmployeeInActiveLegalEntity` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND NOT(CompanyStatus <> 'I' OR CompanyStatus IS NULL);*

Location Group (site) is active	hr-location-group-is-active	Human Resources	Conformity	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_LocGroup*	Status	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_LocGroup` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND NOT(Status = 'A');*
Location (PA/PSA) is active	hr-location-is-active	Human Resources	Conformity	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Location*	Status	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Location` WHERE EmployeeStatus IN ('Active', 'Active Leave', 'Inactive Leave', 'Dormant') AND WorkforceCategory NOT IN ('Contractor', 'Trainees & Apprentices') AND NOT(Status <>'I' OR Status IS NULL);*
Sales Cadre have SIP Bonus Plan	hr-sales-cadre-have-sip-bonus-plan	Human Resources	Accuracy	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpCompensationJob*	BonusPlan	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpCompensationJob` WHERE EmployeeStatus IN ('Active', 'Active Leave') AND WorkforceCategory IN ('Sales Cadre') AND NOT (BonusPlan = 'SIP');*
Supervisor is assigned	hr-supervisor-is-assigned	Human Resources	Completeness	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Supervisor*	SupervisorId	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_EmpJob_Supervisor` WHERE EmployeeStatus IN ('Active', 'Active Leave') AND NOT(SupervisorId <> 'NO_MANAGER');*
Duplicate customer PF1	mrk-kna1-unq-rcc-duplicateusers-pf1	Marketing & Sales	Uniqueness	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_KNA1*	dupcusdata	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_KNA1` WHERE LOEVM != 'X' AND dupcusdata IN (SELECT dupcusdata FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_KNA1` WHERE LOEVM != 'X' GROUP BY dupcusdata HAVING COUNT (dupcusdata) > 1);*
Duplicate customer WP1	mrk-kna1-unq-rcc-duplicateusers-wp1	Marketing & Sales	Uniqueness	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_KNA1*	dupcusdata	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_KNA1` WHERE LOEVM != 'X' AND dupcusdata IN (SELECT dupcusdata FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_KNA1` GROUP BY dupcusdata HAVING COUNT (dupcusdata) > 1);*
PF1 No active material codes connected to obsolete plant	ssr-activemat-obsoleteplant-pf1	Structures & Shared	Consistency	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_MARC*	PlantName	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_MARC` WHERE MaterialStatus="" AND NOT (PlantName NOT LIKE '%*D*');*
WP1 No active material codes connected to obsolete plant	ssr-activemat-obsoleteplant-wp1	Structures & Shared	Consistency	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_MARC*	PlantName	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_MARC` WHERE MaterialStatus="" AND NOT (PlantName NOT LIKE 'ZZZ%');*
PF1 No active materials linked to obsolete sales org	ssr-activemat-obsoletesales-pf1	Structures & Shared	Consistency	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_MVKE_T001W_TVKOT_T001K_U*	SalesOrgName	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1_MVKE_T001W_TVKOT_T001K_U` WHERE NOT(SalesOrgName NOT LIKE '%*D*');*
WP1 No active materials linked to obsolete sales org	ssr-activemat-obsoletesales-wp1	Structures & Shared	Consistency	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_MVKE_T001W_TVKOT_T001K_U*	SalesOrgName	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1_MVKE_T001W_TVKOT_T001K_U` WHERE NOT(SalesOrgName NOT LIKE 'ZZZ%');*
PF1 No active plants linked to obsolete companies	ssr-activeplants-obsoletecompanies-pf1	Structures & Shared	Consistency	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1*	CompanyName	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_PF1` WHERE PlantName NOT LIKE '%*D*' AND NOT (CompanyName NOT LIKE '%*D*');*
WP1 No active plants linked to obsolete companies	ssr-activeplants-obsoletecompanies-wp1	Structures & Shared	Consistency	*prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1*	CompanyName	*SELECT * FROM `prj-data-dq-selfservice-[env].DataOcean_dataquality_kpi.V_WP1` WHERE PlantName NOT LIKE 'ZZZ%' AND NOT (CompanyName NOT LIKE '%*D*');*

[env] is one of the following: dev, test, ppd, prod