

Issue in federating data from Oracle and Sap Hana

The issue

Budget by Account (Nature)

Titre									
Tableau croisé dynamique									
Nature	Budget	Réalisé	201612		201700		201701		E
			Budget	Réalisé	Budget	Réalisé	Budget	Réalisé	
Total général	161.874.800,12	-5.791.469,94		10.109.073,50		10.109.073,50	13.387.770,73	-22.581.380,49	1
221000		227.846,33							
230000		972.740,41							
240000		98.023,48							
241010		84.108,23							
242000		618.794,95							
270000		20.218.147,00		10.109.073,50		10.109.073,50			
499998		0,00							
602000		48.000,00							
604000		2.535.635,06						57.742,13	
609400		0,00							
610000		110.422,22						2.397,05	
610100		522.646,39						11.008,00	
610200		626.341,46						-11,14	
610300		151.821,43						88,69	
610500		151.047,10						-9,85	
611000		2.017.015,61		0,00				4.995,61	
611100		876.649,93						335,15	
611200		23.643,98							
611300		61.504,09						71,80	
611600		1.412,08						28,80	
612000		259.216,75						19,40	
612010		50.412,07						564,00	

Budget by Cost Center (Centre de Coût)

Titre						
Tableau croisé dynamique						
Centre de Coût	Budget	Réalisé	201701		201702	
			Budget	Réalisé	Budget	Réalisé
Total général	161.874.800,12	-2.402.556,16	13.387.770,73	-6.736.389,07	13.352.920,20	-3.330.664,87
1000	5.144.774,30	5.068.112,54	421.689,20	300.255,88	421.330,71	915.003,07
1010	1.994.022,36	5.110.934,18	165.111,40	164.390,16	164.766,40	160.879,80
1020	1.805.300,21	895.562,16	149.514,39	132.107,61	149.184,39	169.348,48
1030	594.558,42	275.072,39	47.868,49	39.158,14	47.800,98	41.898,96
1040	1.257.269,61	-392.239,31	107.087,06	95.183,43	107.004,62	153.367,79
1050	3.338.477,03	1.701.704,04	268.760,63	268.574,67	268.452,81	275.334,27
1060		304.356,44		158,71		19.311,12
1070	28.873.136,88	15.296.655,77	2.402.933,13	2.519.079,16	2.384.074,27	2.533.870,58
1080	231.733,68	189.900,29	18.891,47	24.779,92	18.853,97	25.318,58

Budget by employee (wrong total)

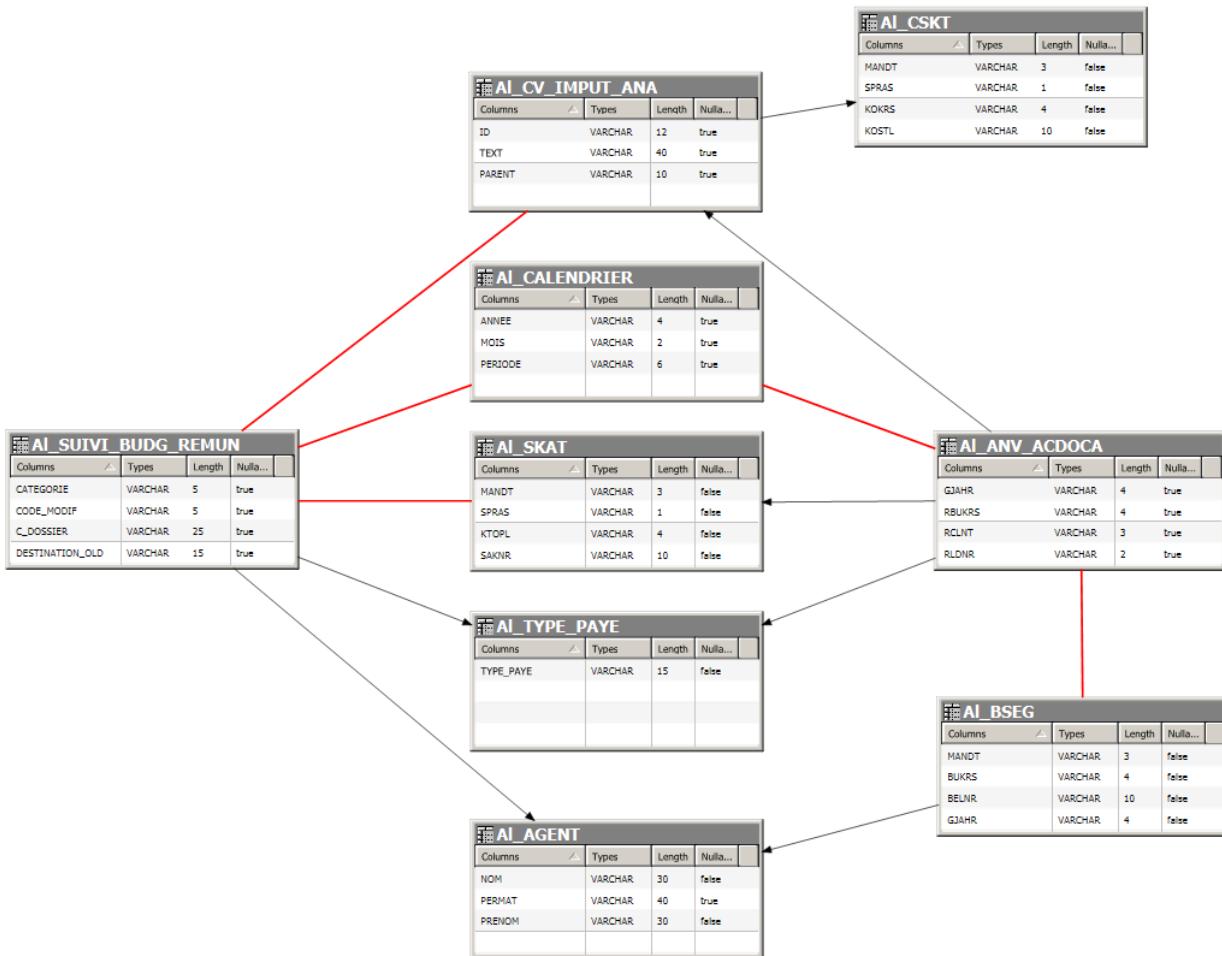
Tableau croisé dynamique

Permat	Budget		Réalisé		201612		201701		201702		201703		201704		201705	
	Budget	Réalisé	Budget	Réalisé	Budget	Réalisé	Budget	Réalisé	Budget	Réalisé	Budget	Réalisé	Budget	Réalisé	Budget	Réalisé
Total général	126.169.870,59	-44.749.641,36			9.930.899,52	6.391.287,57	-12.079.009,64	6.516.725,40	-12.142.859,24	6.497.187,54	-10.000.844,19	6.430.335,79	-6.637.891,19	7.194.485,90	-18.480,84	
0	243.333,00	-85.305.056,80		9.930.899,52		16.527,32	-19.505.478,43		16.527,32		16.527,32	-17.452.676,79		16.527,32	-17.289.069,49	-24.827,14
1004	43.380,35	23.205,74					5.588,29	5.363,59				5.271,49		7.353,90		4,95
1014	31.305,72	16.055,26			3.887,06				3.640,19			3.640,19		5.414,56		3,36
1019	59.550,42	12.614,40					6.470,54	5.954,10			6.143,86	5.954,10			5.954,10	
1020	52.025,91	3.048,11			4.622,56			4.607,56		4.607,56				3.048,11		4.720,11
1030	47.151,22	11.449,90					3.270,29		4.728,66			3.450,95	2.955,09		5.477,00	
1031	93.329,74	16.006,16			9.345,23		9.330,23				6.594,00		9.412,16		9.330,23	
1032	81.721,76				6.823,03		6.808,03			6.808,03		6.808,03		6.808,03		6.808,03
1036	51.716,18	37.397,88					6.932,69		6.982,97			6.838,83		9.947,30		6,65
1047	35.414,90	9.991,68			3.894,41		3.879,41		3.879,41		3.879,41		6.033,65		3,86	
10576	14.033,00						1.841,87		3.737,83		3.737,83		3.737,83		3,36	

Example : Employee 4316 - Figures for budget and actuals are missing (periods 201701 to 201706)

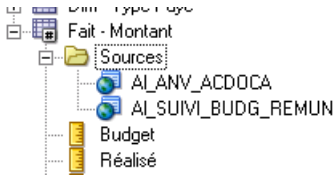
43085		60,00									60,00					
4309	13.145,30	60.233,07			9.768,93		11.000,87	10.179,12		14.071,08	25.392,19	423,74		423,74	423,74	423,74
43091		450,00									450,00					
4315	73.771,98	48.258,75			9.920,13		10.112,15	9.902,68	10.392,77		8.799,84		9.523,95	10.392,77	10.594,80	10.594,80
4316	97.985,71	19.059,35		9.810,80			9.291,20	9.795,80		9.795,80		9.768,15	9.795,80	9.795,80	9.795,80	9.795,80
4323	84.764,14			7.030,03		7.015,03		7.015,03		7.015,03		7.015,03		7.015,03	7.015,03	7.015,03
4327	50.124,96	16.050,06			5.226,23		5.251,33	5.572,50	5.502,68		5.502,68		5.502,68	5.502,68	5.502,68	5.502,68
4329	79.702,16			6.543,09		6.528,09		6.528,09		6.528,09		6.528,09		6.528,09	6.528,09	6.528,09
4330	40.139,16	20.650,32			5.439,59		4.964,31	5.149,61	4.961,85		5.096,81	4.961,85		4.961,85	4.961,85	4.961,85

Physical Schema



Fact

Fact with two LTS (AI_ANV_ACDOCA for actuals (Sap Hana database) and AI_SUIVI_BUDG_REMUN) for budget (Oracle database))



Logical Column - Budget

General | Column Source | Aggregation | Levels

Data
Type: DOUBLE
Derives from: sum(AI_SUIVI_BUDG_REMUN.MONTANT)

Column Source Type
 Derived from physical mappings
 Show all logical sources

Logical Table Source	Mapped as
AI_ANV_ACDOCA	
AI_SUIVI_BUDG_REMUN	"db_DTM_SAP"."DTM_SAP"."AI_SUIVI_BUDG_REMUN"."MONTANT"

Logical Column - Réalisé

General | Column Source | Aggregation | Levels

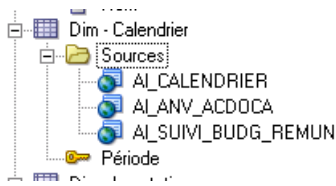
Data
Type: DOUBLE
Derives from: sum(AI_ANV_ACDOCA.HSL)

Column Source Type
 Derived from physical mappings
 Show all logical sources

Logical Table Source	Mapped as
AI_ANV_ACDOCA	"SAP_HANA"."SYS_BIC"."AI_ANV_ACDOCA"."HSL"
AI_SUIVI_BUDG_REMUN	

Dimension Time (Calendrier in french)

3 LTS : AI_ANV_ACDOCA (SAP data) and AI_SUIVI_BUDG_REMUN (Oracle data) plus a dimension physical table



The screenshot shows the 'Logical Column - Période' configuration window. The 'Data' section shows 'Type: VARCHAR' and 'Length: 7'. The 'Derives from' field contains the SQL expression: `[AI_ANV_ACDOCA.GJAHR || right(AI_ANV_ACDOCA.POPER , 2)]`. The 'Column Source Type' section is set to 'Derived from physical mappings' with 'Show all logical sources' checked. A table lists the logical table sources and their mapped SQL expressions:

Logical Table Source	Mapped as
AI_CALENDRIER	"db_DTM_SAP"."DTM_SAP"."AI_CALENDRIER"."PERIODE"
AI_ANV_ACDOCA	Concat("SAP_HANA"."SYS_BIC"."AI_ANV_ACDOCA"."GJAHR" , Right("SAP_HANA"."SYS_BIC"."AI_ANV_ACDOCA"."POPER" , 2))
AI_SUIVI_BUDG_REMUN	Cast(Truncate("db_DTM_SAP"."DTM_SAP"."AI_SUIVI_BUDG_REMUN"."PERIODE", 0) AS VARCHAR(6))

Dimension Account (Nature in french)

2 LTS : AI_SKAT (SAP data with attributes like description) and AI_SUIVI_BUDG_REMUN (Oracle data)

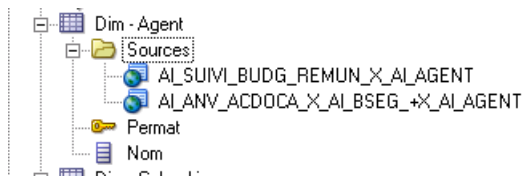


The screenshot shows the 'Logical Column - Nature' configuration window. The 'Data' section shows 'Type: VARCHAR'. The 'Derives from' field contains the SQL expression: `[AI_SUIVI_BUDG_REMUN.NATURE_COMPTABLE]`. The 'Column Source Type' section is set to 'Derived from physical mappings' with 'Show all logical sources' checked. A table lists the logical table sources and their mapped SQL expressions:

Logical Table Source	Mapped as
AI_SKAT	right("SAP_HANA"."SAPERP"."AI_SKAT"."SAKNR",6)
AI_SUIVI_BUDG_REMUN	"db_DTM_SAP"."DTM_SAP"."AI_SUIVI_BUDG_REMUN"."NATURE_COMPTABLE"

Dimension Employee (Agent in french)

2 LTS : AI_ANV_ACDOCA (SAP data) and AI_SUIVI_BUDG_REMUN (Oracle data) both joined to a dimension physical table with employee attributes (AI_AGENT)



Logical Column - Permat

General | Column Source | Aggregation | Levels

Data
Type: VARCHAR
Derives from: AI_SUIVI_BUDG_REMUN.PERMAT

Column Source Type
 Derived from physical mappings
 Show all logical sources

Logical Table Source	Mapped as
AI_SUIVI_BUDG_REMUN_X_AI_AGENT	"db_DTM_SAP"."DTM_SAP"."AI_SUIV_BUDG_REMUN"."PERMAT"
AI_ANV_ACDOCA_X_AI_BSEG_+X_AI_AGENT	"SAP_HANA"."SAPERP"."AI_BSEG"."XREF1"

Logical Column - Nom

General | Column Source | Aggregation | Levels

Data
Type: VARCHAR Length: 61 Nullable
Derives from: AI_AGENT.NOM || AI_AGENT.PRENOM

Column Source Type
 Derived from physical mappings
 Show all logical sources

Logical Table Source	Mapped as
AI_SUIV_BUDG_REMUN_X_AI_AGENT	Concat("db_DTM_SAP"."DTM_SAP"."AI_AGENT"."NOM", Concat(", "db_DTM_SAP"."DTM_SAP"."AI_AGENT"."PRENOM"))
AI_ANV_ACDOCA_X_AI_BSEG_+X_AI_AGENT	Concat("db_DTM_SAP"."DTM_SAP"."AI_AGENT"."NOM", Concat(", "db_DTM_SAP"."DTM_SAP"."AI_AGENT"."PRENOM"))

Derived from existing columns using an expression

Edit... Unmap