

# SAP REPORTING WITH INFOZOOM

THE SAP AG STANDARD INTERFACE FOR INFOZOOM

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## 1 MANAGEMENT SUMMARY

The standard SAP interface for InfoZoom has been available since 2000. It was developed by SAP AG and is implemented as part of the SAP Query functionality. Official SAP help can be found at <http://help.sap.com> under the heading *Additional Function Pool*.

InfoZoom works seamlessly with SAP standard reports or the SAP Query, including SAP QuickViewer, SAP Ad Hoc Query and SAP InfoSet Query. Depending on access rights and privileges, all users can browse and analyze data in SAP ERP systems. Users are thus immediately provided with intuitive OLAP and visual Data Mining.

This manual describes how to configure the SAP InfoZoom interface and how to use the various native SAP query tools in combination with InfoZoom. Configuration and use is extremely easy and rapid: It needs less than 3 minutes, and once this is done, use of the interface is even quicker.

The examples in this document are based on SAP ERP 6.0, but they can be used with all versions of SAP R/3 delivered after the year 2000. The examples use data from SAP IDES and individual queries were shown at the SAPIENCE 2010 conference. A conference video is available on request from [info@humanit.de](mailto:info@humanit.de).

Please try out the examples and you will learn how to make more out of your SAP ERP installation in a few moments.

We are looking forward to hearing from you about your experiences.

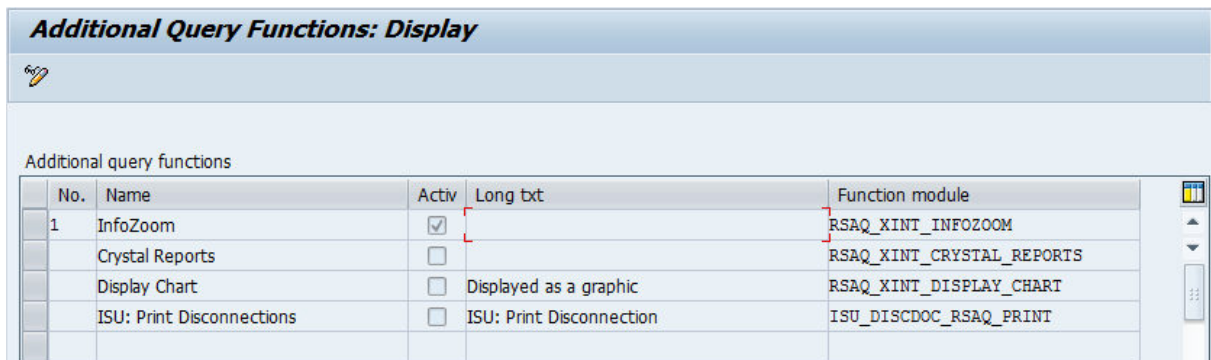
Your humanIT Team

Ralph Gattinger

## 2 CONFIGURING THE INFOZOOM INTERFACE IN SAP ERP


Setting up the InfoZoom interface is straightforward. As a prerequisite you need to define InfoZoom as part of the *Additional Function Pool*<sup>1</sup>. SAP ERP will then export and save the tables using the nomenclature *sapaq\_systemnumber.foc* in the folder *C:\Documents and Setting\your user name\Local Settings\Temp*. The system number will be created automatically by your SAP system.

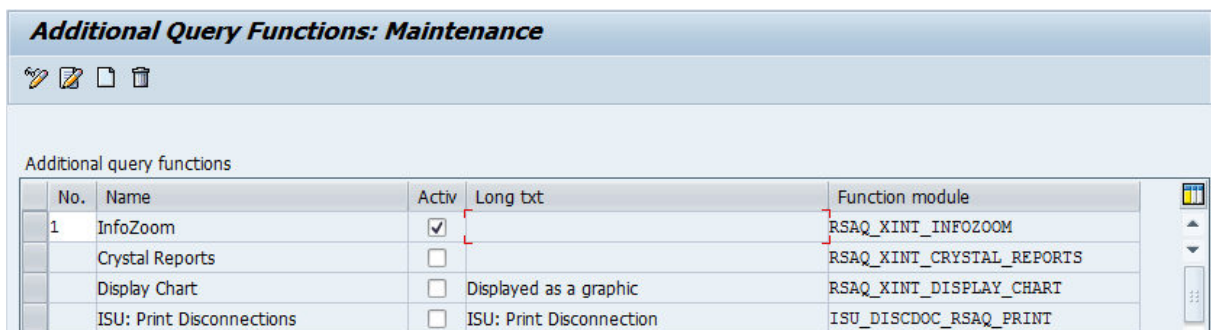
Choose transaction *SQ09 (Additional Query Functions: Display)* to obtain the following screen:



No.	Name	Activ	Long txt	Function module
1	InfoZoom	<input checked="" type="checkbox"/>		RSAQ_XINT_INFOZOOM
	Crystal Reports	<input type="checkbox"/>		RSAQ_XINT_CRYSTAL_REPORTS
	Display Chart	<input type="checkbox"/>	Displayed as a graphic	RSAQ_XINT_DISPLAY_CHART
	ISU: Print Disconnections	<input type="checkbox"/>	ISU: Print Disconnection	ISU_DISCDOC_RSAQ_PRINT


Picture 1: SQ09 Additional Query Functions: Display

Click on the symbol  *Display <-> Change (CTRL+F1)* or use *CTRL+F1* directly. The display changes to edit mode:



No.	Name	Activ	Long txt	Function module
1	InfoZoom	<input type="checkbox"/>		RSAQ_XINT_INFOZOOM
	Crystal Reports	<input type="checkbox"/>		RSAQ_XINT_CRYSTAL_REPORTS
	Display Chart	<input type="checkbox"/>	Displayed as a graphic	RSAQ_XINT_DISPLAY_CHART
	ISU: Print Disconnections	<input type="checkbox"/>	ISU: Print Disconnection	ISU_DISCDOC_RSAQ_PRINT

Picture 2: Additional Query Functions: Maintenance

Enter number 1 in column *No.* and activate the check box in column *Activ*. Save the configuration with *CTRL+S* or click on the *Save*  icon. Now InfoZoom is a part of the *Additional Function Pool* and can be used in all SAP ERP reports and query tools.

<sup>1</sup> Further information can be found in [http://help.sap.com/erp2005\\_ehp\\_04/helpdata/DE/9f/9983c8748f11d295c80000e82de14a/frameset.htm](http://help.sap.com/erp2005_ehp_04/helpdata/DE/9f/9983c8748f11d295c80000e82de14a/frameset.htm)

### 3 SIMPLE ZOOMING IN SAP



InfoZoom access can be obtained

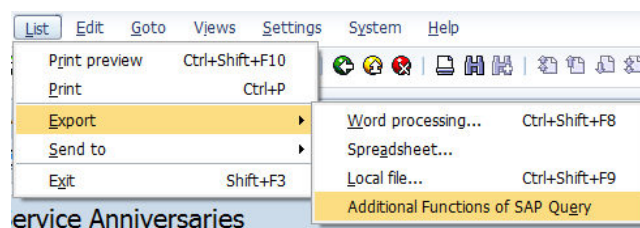
1. in every **SAP standard report**
2. with **SAP Query** for individual, non-standard reports.

#### 3.1 INFOSCAPES FROM SAP STANDARD REPORTS

Choose your preferred standard report in SAP ERP and the pre-selection window is displayed (in the example: Service Anniversaries). In this example, we use the *Service Anniversaries* (*S\_PH9\_46000216*):

Picture 3: Preselection window for the SAP standard report "Service Anniversaries"

Start the query by pressing *Execute (F8)* , then enter the number of datasets to be read in the dialog box *Restriction of Database Accesses*. After clicking on *Continue (Enter)*  the result will be presented as a tabular report. Now select *Additional Functions of SAP Query* from the menu bar



and the report will directly be shown as a table in InfoZoom:

100 of 100 Objects 5 Attributes	00000010	00000069	00000070	00000071	00000072	00000073	00001000	00001001	00001002	00001003	00001004
Personnel number	00000010	00000069	00000070	00000071	00000072	00000073	00001000	00001001	00001002	00001003	00001004
Last name	Bond	Holder	Broughton	Hill	Fish	Mustard	Müller	Maier	Zaucker	Pfändli	Paulsen
First name	James	Horatio	Beryl	Harry	Freda	Colman	Anja	Michaela	Ulrike	Stefan	Olaf
Entry date	01.01.2002	01.01.2003	01.01.2003	01.01.2003	01.01.2003	01.01.2003	01.01.1995	01.01.1994	01.01.1994	01.01.1994	01.01.1994
Length of service	00	00	00	00	00	00	00	00	00	00	00

Picture 4: InfoScope of the SAP standard report “Service Anniversaries“

### 3.2 INFOSCAPES FROM INDIVIDUAL REPORTS

Individual reports can be managed with *SAP QUERY* transaction *SQ01* or by selecting *Information System/Ad Hoc Reports/SAP Query* in SAP Menu<sup>2</sup>. Windows to manage the reports will be displayed. Next choose your desired user group by clicking on . In the example, user group *HO* for Human Resources was chosen.

Name	Title	InfoSet	Logical Database	Table/View/Join	InfoSet Title
JOB_DATA	Additional OrgChart Data: Jobs	/SAPQUERY/HR_XX_ORGCHART	PCH		HR: Additional Org Chart Data
OCI_ORG_DATA	OCI Data: Organizational Entities	/SAPQUERY/HR_XX_ORGCHART	PCH		HR: Additional Org Chart Data
OCI_PERS_DATA	OCI Data: Persons	/SAPQUERY/HR_XX_ORGC_P	PNP		HR: Additional Org Chart Data for Persons
OCI_POS_DATA	OCI Data: Positions	/SAPQUERY/HR_XX_ORGCHART	PCH		HR: Additional Org Chart Data
ORGUNIT_DATA	Additional Org Chart Data: Organizational Entities	/SAPQUERY/HR_XX_ORGCHART	PCH		HR: Additional Org Chart Data
PERSON_DATA	Additional Org Chart Data: Persons	/SAPQUERY/HR_XX_ORGC_P	PNP		HR: Additional Org Chart Data for Persons
POSITION_DATA	Additional Org Chart Data: Positions	/SAPQUERY/HR_XX_ORGCHART	PCH		HR: Additional Org Chart Data

Picture 5: SAP Query Initial Screen

To generate the selected report, in this case *Persons* (highlighted by orange color), click *Execute (F8)* twice. Then enter the number of datasets to be read<sup>3</sup>. Click on *(Enter)* and the result will be displayed.

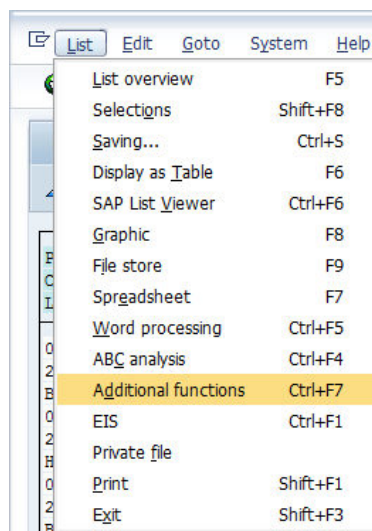
<sup>2</sup> *SAP Query* is named differently in several SAP modules. For example the *FQUS general Ledger Query* can be found in *Accounting/Financial Accounting/General Ledger/Information System/Tools*.

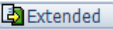

<sup>3</sup> If you want to restrict a selection of data, enter appropriate criteria.

CoCd	PAre	PSub	Busi	Cost	cente	E	ES	Pa	First name	Last name	WS rule	P	Wk.hrs	Empl.
00000010														
2000	200	0002				1	GC	G1	James	Bond	STD-WK		39,00	100,00
00000069														
2000	200	0002				1	GC	G1	Horatio	Holder	STD-WK		39,00	100,00
00000070														
2000	200	0002				1	GC	G1	Beryl	Broughton	STD-WK		39,00	100,00
00000071														
2000	200	0002				1	GC	G1	Harry	Hill	STD-WK		39,00	100,00
00000072														
2000	200	0002				1	GC	G1	Freda	Fish	STD-WK		39,00	100,00
00000073														
2000	200	0002				1	GC	G1	Colman	Mustard	STD-WK		39,00	100,00

Picture 6: Result table "Persons" in SAP List Viewer

Next select **CRTL+F7** or use *Additional functions* from the menu bar



or click the button . The result will be displayed as an InfoScape with predefined groups. These may be expanded by clicking on the plus sign  preceding the row:



116 of 116 Objects 16 Attributes	1	2	3	4	5	6	7	8	9	10	11
Key	1	2	3	4	5	6	7	8	9	10	11
Key fields											
Organizational ass											
CoCd	2000	2000	2000	2000	2000	2000	1000	1000	1000	1000	1000
PArea	200	200	200	200	200	200	1300	1300	1300	1300	1300
PSubarea	0002	0002	0002	0002	0002	0002					
Business area							9900	9900	9900	9900	9900
Cost center							0000002200	0000002200	0000002100	0000002100	0000002100
EEGrp	1	1	1	1	1	1	1	1	1	1	1
ESgrp	GC	GC	GC	GC	GC	GC	DU	DS	DU	DT	DU
Payr.area	G1	G1	G1	G1	G1	G1	D2	D2	D2	D2	D2
Personal data											
Planned working t											

Picture 7: InfoScape of the individual report “Persons”

### 3.3 INFOSCAPES WITH SAP QUICK VIEWER

Call *SAP QuickViewer* with transaction *SQVI* or click on in *SAP Query*. There you find individually stored queries (example: DEMO\_PERSONALS). Next, click on the grey button left in the row to be selected and it appears highlighted by orange:

**QuickViewer: Initial Screen**

Welcome to the QuickViewer

1. Enter a name and choose Create
2. Choose a title and remarks.
3. Enter the name of a **Data Source**. This can be a table, a logical database, a join, or an InfoSet from SAP Query.
4. Use layout mode to layout your Quick View graphically. Choose basis mode whenever you want to directly export the report fields selected.

QuickView: DEMO\_PERSONALS

SAP Query

QuickViews for user: WI-LIND


Name	Title	Table/view/join	Logical database	InfoSet	InfoSet title
DEMO_PERSONALS	Personnel Master Data Demo		PNPCE		
DEMO_X	Kostenstellen		CRK		


Picture 8: Selection of the example query “Personnel Master Data Demo” in SAP QuickViewer

Select the button or use *F8 (Execute)*. Fill the criteria in the preselection and execute again with *F8* . Specify the number of datasets to be read and *Continue (Enter)* . The result will be shown in *SAP List Viewer*:

Pers.No.	EEGGrp	Organizational key	Org.unit	Position	Post.code	City	City	Title	Last name	First name	Gen.	CoB	Nat	Σ No.ch	Σ Age of employee	CGr	DC	ContractSt	Σ Annual salary
00000010	1	200	50001357	50005214					Bond	James	1	GB	GB	0	44	0,00	00.00.0000		
00000069	1	200	50002214	50005687					Holder	Horatio	1	GB	GB	1	55	0,00	00.00.0000	0,00	
00000070	1	200	50002214	50005691					Broughton	Beryl	2	GB	GB	0	90	0,00	00.00.0000	0,00	
00000071	1	200	50002213	50005676					Hill	Harry	1	AZ	AZ	0	44	0,00	00.00.0000	0,00	
00000072	1	200	50002213	50005677					Fish	Freda	2	MR	MR	0	46	0,00	00.00.0000	0,00	
00000073	1	200	50002213	50005678					Mustard	Colman	1	NP	NP	0	55	0,00	00.00.0000	0,00	
00001000	1	1300	00001001	50000052					Müller	Anja	2	DE	US	1	51	0,00	00.00.0000	54.544,56	
00001000	1	1300	00001001	50000052					Müller	Anja	2	DE	US	1	51	0,00	00.00.0000	54.544,56	
00001001	1	1300	50000073	50000076					Maier	Michaela	2	DE	DE	1	51	0,00	00.00.0000	22.677,84	
00001002	1	1300	50000563	50000083				Dipl.Kfm.	Zaucker	Ulrike	2	DE	DE	2	51	0,00	00.00.0000	55.219,56	
00001003	1	13000000002100	50000563	50000084					Pfändli	Stefan	1	DE	DE	0	51	0,00	00.00.0000	23.469,24	
00001004	1	1300	50000563	50000085					Paulsen	Olaf	1	DK	DK	0	46	0,00	00.00.0000	22.017,36	
00001005	1	1300	50000563	50000833					Gutjahr	Hanno	1	CH	CH	0	41	0,00	00.00.0000	26.959,44	
00001006	1	1300	50000563	50000834					Awad	Jasmin	2	FR	FR	0	51	0,00	00.00.0000	27.718,80	

Picture 9: Example in SAP List Viewer for "Personnel Master Data Demo"

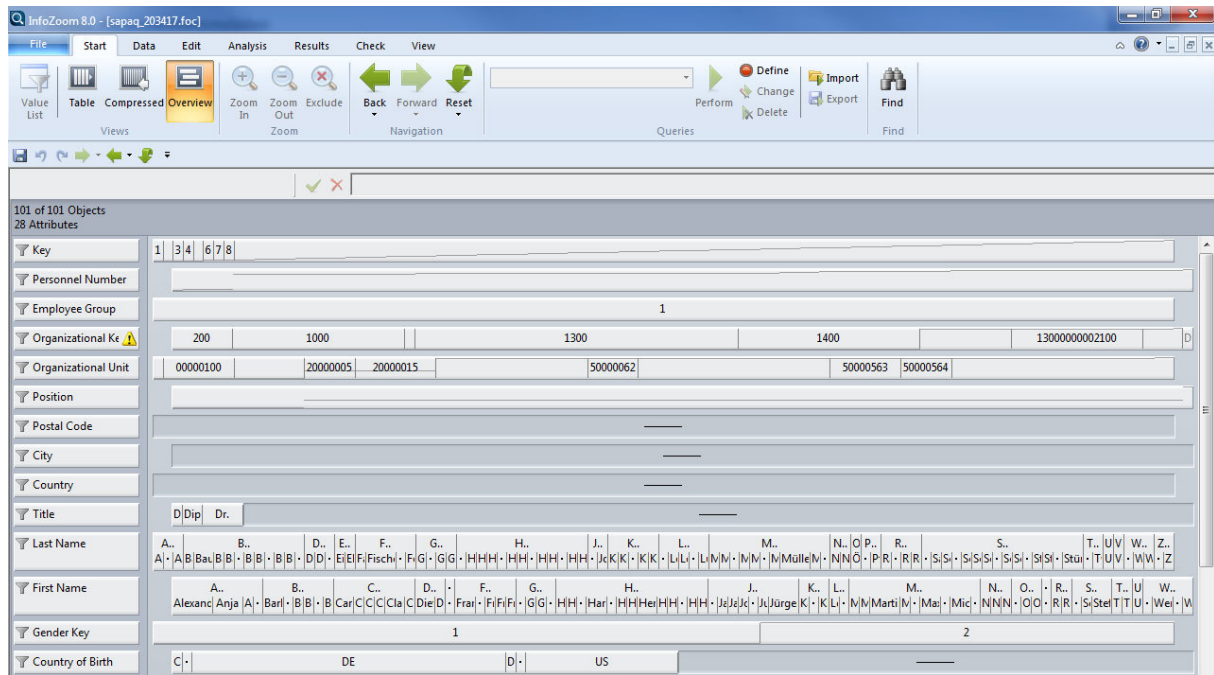
Select *List/Export/Additional Functions* of *SAP Query* from the menu bar and the InfoScope will be displayed (if there is an issue with formatting, the attribute will be highlighted by ):

	1	2	3	4	5	6	7	8	9	10	11
101 of 101 Objects 28 Attributes											
Key	1	2	3	4	5	6	7	8	9	10	11
Personnel Number	00000010	00000069	00000070	00000071	00000072	00000073	00001000	00001000	00001001	00001002	00001003
Employee Group	1	1	1	1	1	1	1	1	1	1	1
Organizational Key 	200	200	200	200	200	200	1300	1300	1300	1300	13000000002100
Organizational Unit	50001357	50002214	50002214	50002213	50002213	50002213	00001001	00001001	50000073	50000563	50000563
Position	50005214	50005687	50005691	50005676	50005677	50005678	50000052	50000052	50000076	50000083	50000084
Postal Code	---	---	---	---	---	---	---	---	---	---	---
City	---	---	---	---	---	---	---	---	---	---	---
Country	---	---	---	---	---	---	---	---	---	---	---
Title	---	---	---	---	---	---	---	---	---	Dipl.Kfm.	---
Last Name	Bond	Holder	Broughton	Hill	Fish	Mustard	Müller	Müller	Maier	Zaucker	Pfändli
First Name	James	Horatio	Beryl	Harry	Freda	Colman	Anja	Anja	Michaela	Ulrike	Stefan
Gender Key	1	1	2	1	2	1	2	2	2	2	1
Country of Birth	---	---	---	---	---	---	DE	DE	DE	DE	DE

Picture 10: Table InfoScope "Personnel Master Data Demo"





Click Overview button  to display the InfoScope in Picture 11.

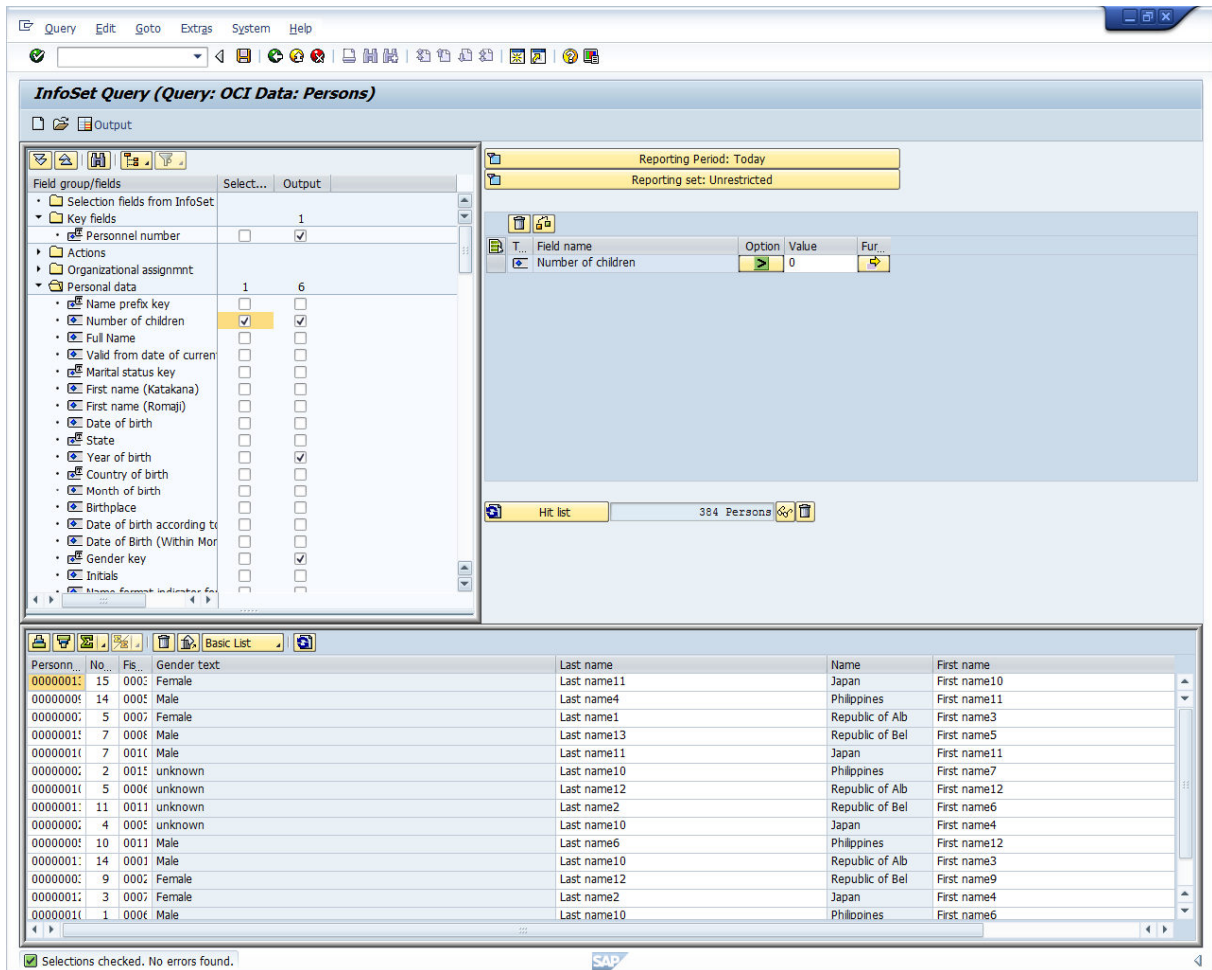


Picture 11: Overview InfoScape "Personnel Master Data Demo"

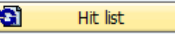
### 3.4 INFOSCAPES FROM NEW SAP AD HOC REPORTS

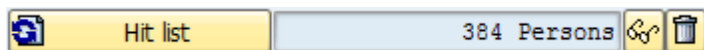
If you want to create individual reports in SAP ERP, you can use *SAP Ad Hoc Query* (transaction *S\_PHO\_48000513*) or *SAP InfoSet Query* from *SAP Query* by clicking . To do this, specify your user group and select an InfoSet from a dialog window by clicking on the grey button  left of the row selected.

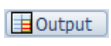
A complex view appears showing attributes for selection and output on the left hand side. The filter definition for selection is on the right hand area. In the lower window there is a preview of the defined table:



Picture 12: SAP Ad Hoc / InfoSet Query

We recommended that you to click on  before you start because if a large number of records are selected it may take a long time for SAP ERP to respond. In our example only 384 persons will be selected:

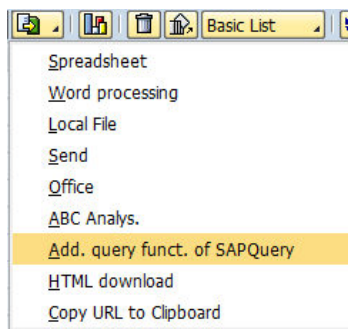


Now, select *Start Output (F8)* by clicking on  and the following table will be displayed in *SAP List Viewer*:

Personne	No.c	Fisc	Gender text	Last name	Name	First name
00000069	1	1956	Male	Holder	British	Horatio
00001000	1	1960	Female	Müller	American	Anja
00001001	1	1960	Female	Maier	German	Michaela
00001002	2	1960	Female	Zaucker	German	Ulrike
00001007	3	1955	Female	Ulrich	German	Hanna
00001009	2	1938	Male	Braunstein	German	Herbert
00001018	2	1940	Male	Fischer	German	Bill
00001019	3	1950	Male	Thomson	American	Keith
00001021	2	1937	Male	Stadler	German	Werner
00001025	1	1965	Female	Rottenbaum	German	Christine
00001027	2	1948	Male	Jost	German	Martin
00001028	3	1937	Male	Klocke	German	Matthias
00001029	2	1955	Male	Kubat	Hungarian	Jan
00001052	1	1958	Male	Mannheim	German	Manfred
00001100	2	1960	Male	Martens	German	Dieter
00001120	1	1960	Male	Jeckel	German	Jürgen
00001200	2	1953	Male	Hess	German	Alexander
00001201	1	1959	Male	Nitzsche	German	Alexander
00001203	3	1965	Female	Wiesel	American	Theresa
00001208	2	1960	Male	Hintz	German	Michael
00001209	1	1952	Male	Schmidtke	German	Wilfried
00001210	4	1959	Male	Bauer	German	Peter
00001213	1	1966	Female	Dörffler	German	Hildegard
00001216	1	1967	Male	Rieoel	German	Franz

Picture 13: Table created with SAP Ad Hoc / InfoSet Query

Select *List/Additional functions CTRL+F7* from the menu bar or execute *CTRL+F7* directly and the InfoScope will be displayed. Alternatively, you can click on *Refresh data* in the preview at the bottom and select *Add. Query funct. of SAPQuery*.



The following InfoScope appears:

379 of 379 Objects	0000000000000069	0000000000001000	0000000000001001	0000000000001002	0000000000001007	0000000000001009	0000000000001018	0000000000001019	0000000000001021	0000000000001025	0000000000001027	0000000000001028
7 Attributes	0000000000000069	0000000000001000	0000000000001001	0000000000001002	0000000000001007	0000000000001009	0000000000001018	0000000000001019	0000000000001021	0000000000001025	0000000000001027	0000000000001028
???	1	1	1	2	3	2	2	3	2	1	2	
???	00001956	00001960	00001960	00001960	00001955	00001938	00001940	00001950	00001937	00001965	00001948	
???	Male	Female	Female	Female	Female	Male	Male	Male	Male	Female	Male	
???	Holder	Müller	Maier	Zaucker	Ulrich	Braunstein	Fischer	Thomson	Stadler	Rottenbaum	Jost	
???	British	American	German	German	German	German	German	American	German	German	German	
???	Horatio	Anja	Michaela	Ulrike	Hanna	Herbert	Bill	Keith	Werner	Christine	Martin	

Picture 14: InfoScope from a table created with SAP Ad Hoc Query