



How to create a GADD Query/Report

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1. Introduction

This document contains guidance on how to create GADD query/report.

This document describes the GADD NET query database and its tables. It will cover the possible parameters and examples how one can configure these parameters and other features.

If you have any questions please do not hesitate to contact us, support@gaddsoftware.com.

Hope you will find this document useful!

Please note that GADD ETL is not described in this document.

2. Prerequisites

To demonstrate we will use an example query from the GADD public package. You will need to have Microsoft Access installed.

2.1. GADD_5p

The GADD v5 public package (GADD_5p) includes all needed GADD applications. Please consult “*GADD_How_to_get_started_with_GADD.pdf*” on how to install them.

If you have a copy you will find the database, QmQueryDb_58p.mdb, in the folder GADD_5p\GADD_QUERY_DB.

3. Query in focus

In the GADD NET example package the query database (QmQueryDb_58p.mdb) contains queries that has been created for educational purposes. We will use one specific query to demonstrate many of the features that are available in GADD in the upcoming chapters. The query in question is “*QS010, TotalSale – Basic*”.

4. QS010, Total Sale – Basic

In this chapter we will explain the main tables in the query database for query QS010.

Name	Operator	Value
From date	>=	2007-09-07
To date	<	2013-02-27
Country	Like	%
Product type	in	BASKET,'RUGBY','TENNIS','GOLF

Figure 1 Execute Query Parameters for example query QS010.

Query Parameters	Query Settings	Query Graph	Query Information	
Query configuration for query QS010, TotalSale - Basic				
<p>Total sale and number of orders per date interval. Date used is delivery date. Group the sale on date and country. Enable dashboard and use default GADD Excel export template.</p> <p>Column description: CountryCity: Country and city code. CountryCode: Two character code for the country. DeliveryDate: The date the delivery was confirmed. NoOfOrders: Number of orders. TotalAmount: Total amount of the delivery incl. VAT.</p>	Category		Description	
	Category Target			
	Id		QS010	
	Name		TotalSale - Basic	
	Create date		2012-09-20	
	Allow execute at		0000 - 2400	
	Data source		GDALOCAL	
	Connection		C:\Users\PA\Documents\GADDAnalytics\GADD_NET_57p\GA	
	Path saved file		C:\Users\PA\Documents\GADDAnalytics\GADD_NET_57p\GA	
	Default display		excel_green	
	Query User Id		SYSTEM	
	Category Format			
	Grid format		DashboardBuilder=Enabled,end,	
	XL format		ExcelIntegration=Y,end, ExcelIntegrationUseTemplate=GADD_Report_5XL.xltm,end, ExcelXLImport=Y,end,	
	Format			
RP format		SubTotals=Y,end,GrandTotCaption=Total,end, ColMergeOn0To=1,end,ColGroupOn0To=1,end, ColSum(3,### ##0),end, ColSum(4,### ##0),end,		

Figure 2 Query Information for example query QS010.

Description: Total sale and number of orders per date interval. Date used is delivery date. Group the sale on date and country. Enable dashboard and use default GADD Excel export template.

DeliveryDate	CountryCode	CountryCity	TotalAmount	NoOfOrders
Grand Total			5546 199 290	42 933
Total for 2012-01-02			11 827 623	334
Total for DK			2 153 707	30
2012-01-02	DK	COPENHAGEN	1 955 409	28
		ROSKILDE	198 298	2
Total for NO			7 486 160	12
2012-01-02	NO	OSLO	1 709 200	3
		STAVANGER	5 776 960	9
Total for SE			1 093 878	146
2012-01-02	SE	HALMSTAD	743 180	144
		HELSINGBORG	223 872	1
		TRELLEBORG	126 826	1
Total for US			1 093 878	146
2012-01-02	US	LAS VEGAS	223 872	1
		MIAMI	743 180	144
		SEATTLE	126 826	1
Total for 2012-01-03			1 221 348	36
Total for SE			610 674	18
2012-01-03	SE	HALMSTAD	610 674	18
Total for US			610 674	18
2012-01-03	US	MIAMI	610 674	18
Total for 2012-01-04			1 279 200	1
Total for 2012-01-05			55 081 519	502

Figure 3 Result of QS010.

4.1. Table QUERY_OBJECT

In this table the SQL (Query Statement) is defined. For query QS010:

```
select delivery_date as DeliveryDate,
country as CountryCode,
city as CountryCity,
sum(total_amount - vat_amount) as TotalAmount,
sum(no_of_orders) as NoOfOrders
from daily_delivery_stat_sport
where delivery_date >= TO_DATE('PARAM_1','YYYY-MM-DD')
and delivery_date < TO_DATE('PARAM_2','YYYY-MM-DD')
and country Like 'PARAM_3%'
and product_type in ('PARAM_4')
group by delivery_date, country, city
order by delivery_date, country, city
```

The value PARAM_1, PARAM_2, PARAM_3 and PARAM_4 in the SQL will be exchanged into the values defined by the user. These parameters correspond to information defined in table QUERY_PARAM. In table QUERY_PARAM the default value and restrictions are defined.

4.2. Table QUERY_PARAM

The selection parameters for QS010 are *From Date*, *To Date*, *Country* and *Product Type*. The PARAM_NUMBER indicates the order in which the selection parameters will be displayed for the user.

PAC	QUERY_ID	PARAM_NUM	PARAM_NAME	PARAM_COL_NAME	PARAM_OP	PARAM_TYF	PARAM_INFO	DEFAULT_TY	DEFAULT_VALUE	DEFAULT_Y
EX1	QS010	1	From date	N/A	>=	N/A	Calendar=Y,end,	DATE	-2000	Y
EX1	QS010	2	To date	N/A	<	N/A	Calendar=Y,end,	DATE	0	Y
EX1	QS010	3	Country	N/A	Like	N/A		COUNTRY	%	Y
EX1	QS010	4	Product type	N/A	in	N/A		CODE	BASKET,RUGBY,TENNIS,GOLF	Y

Figure 4 Selection parameters for QS010

PACKAGE_ID	QUERY_ID	PARAM_NUM	PARAM_NAME	PARAM_COL_NAME	PARAM_OP	PARAM_TYF	PARAM_INFO	DEFAULT_TY	DEFAULT_VALUE	DEFAULT_Y
EX1	QS030CR	3	Country	N/A	Like	N/A		COUNTRY	%	Y
EX1	QS030CR	2	To date	N/A	<	N/A		DATE	0	Y
EX1	QS030CR	1	From date	N/A	>=	N/A		DATE	-700	Y

Figure 5 Selection parameters for QS030CR

Parameters can have different default values and constraints which are added in the PARAM_INFO and DEFAULT_VALUE columns.

PARAM_INFO	Description
Calendar=Y,end	Show the calendar function.
%Least=1,end,	At least one character needs to be entered as input.
DATE_max=10,end,	A user can enter a date 10 days ahead from today's date
DATE_min=-3000,end,	A user can enter a date 3000 days from today's date.

DEFAULT_TYPE	DEFAULT_VALUE	Description
DATE	0	Today's date
DATE	-200	200 days past today's date
NORMAL	2012-01-01	Value can be any string
CODE	BASKET,RUGBY,TENNIS,GOLF	All available codes are present in table CODE_DESC and mapped by their PARAM_NAME. The available codes will be presented in a drop down list for the user.
COUNTRY	C%	All COUNTRY codes are available in table COUNTRY_DATA. Values in column CTY_CODE will be presented in a drop down list for the user.

4.3. Table QUERY_FORMAT

Query QS010 uses formats XL (Excel), RP (Active Report) and GD.

PACKAGE_ID	QUERY_ID	FORMAT_CODE	FORMAT_PARAM
EX1	QS010	GD	DashboardBuilder=Enabled,end,
EX1	QS010	RP	SubTotals=Y,end,GrandTotCaption=Total,end,ColMergeOn0To=1,end,ColGroupOn0To=1,end,
EX1	QS010	XL	ExcelIntegration=Y,end,ExcelIntegrationUseTemplate=GADD_Report_5XL.xltm,end,

4.3.1. Format XL (Excel)

```
ExcelIntegration=Y,end,
ExcelIntegrationUseTemplate=GADD_Report_5XL.xltm,end,
ExcelXLTImport=Y,end,
```

Parameter	Description
ExcelIntegration=Y,end,	It will be possible to export this query to Excel.
ExcelIntegrationUseTemplate=GADD_Report_5XL.xltm,end,	Will use the Excel template GADD_Report_5XL.xltm that exists in the Data folder in a subfolder of folder GADD_QUERY_DB. (GADD_NET_5p\GADD_QUERY_DB\DB_EX1\Data)
ExcelXLTImport=Y,end,	Defines the type of import process that should be used.

4.3.2. Format RP

The RP format decides the presentation of the result in the GADDxl application.

DeliveryDate	CountryCode	CountryCity	TotalAmount	NoOfOrders
Grand Total			5546 199 290	42 933
Total for 2012-01-02			11 827 623	334
Total for DK			2 153 707	30
2012-01-02	DK	COPENHAGEN	1 955 409	28
		ROSKILDE	198 298	2
Total for NO			7 486 160	12
2012-01-02	NO	OSLO	1 709 200	3
		STAVANGER	5 776 960	9

Figure 6 Result layout in GADDxl

The layout in figure 6 is decided by the following parameters.

```
SubTotals=Y,end,
ColMergeOn0To=1,end,ColGroupOn0To=1,end,
ColSum(3;### ## #0),end,
ColSum(4;### ## #0),end,
```

Parameter	Description
SubTotals=Y,end,	If we should use sub totals or not.
ColMergeOn0To=1,end,	Use this parameter to merge columns for display. Will merge column 0 and 1.
ColGroupOn0To=1,end,	Grouping on column 0 and 1.
ColSum(3;### ## #0),end,	Sum on column 3 using format ### ## #0.
ColSum(4;### ## #0),end,	Sum on column 4 using format ### ## #0.
Note! The column number starts on 0, i.e. Delivery Date is column = 0 in figure 6 above.	

4.3.3. Format GD

```
DashboardBuilder=Enabled,end,
```

To make the data available to build dashboards this parameter needs to be present.