

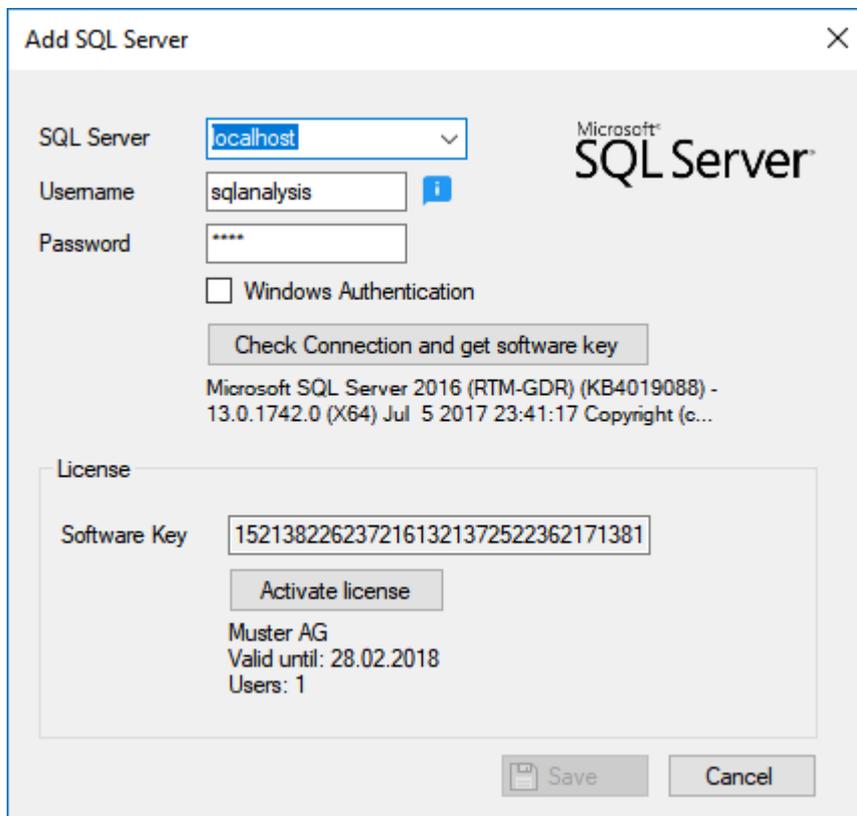
SQL Analysis Documentation



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Connection SQL Server and License



Add SQL Server

SQL Server: localhost

Username: sqlanalysis

Password: ****

Windows Authentication

Check Connection and get software key

Microsoft SQL Server 2016 (RTM-GDR) (KB4019088) - 13.0.1742.0 (X64) Jul 5 2017 23:41:17 Copyright (c...)

License

Software Key: 1521382262372161321372522362171381

Activate license

Muster AG
Valid until: 28.02.2018
Users: 1

Save Cancel

It is recommended **not to** use the sa user, but a user with read-only privileges instead, for security reasons.

In SQL Server Management Studio, additional users can be entered and corresponding authorizations granted.

The software key is entered as soon as there is a connection to the SQL Server.

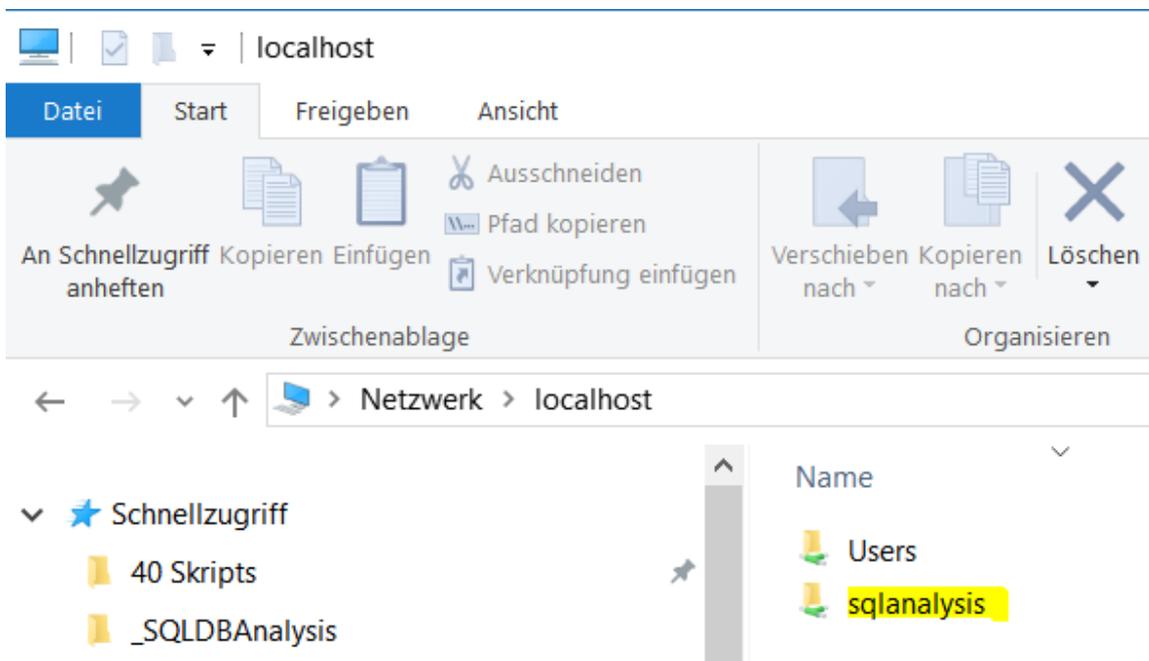
The license is automatically entered when you click on *Activate license*, if you have a valid license.

If no valid license is available, a maximum of 5 data records are displayed.

Set main path

The main path for the SQL queries must be defined once in the settings, the subfolders (if available) are automatically displayed correctly.

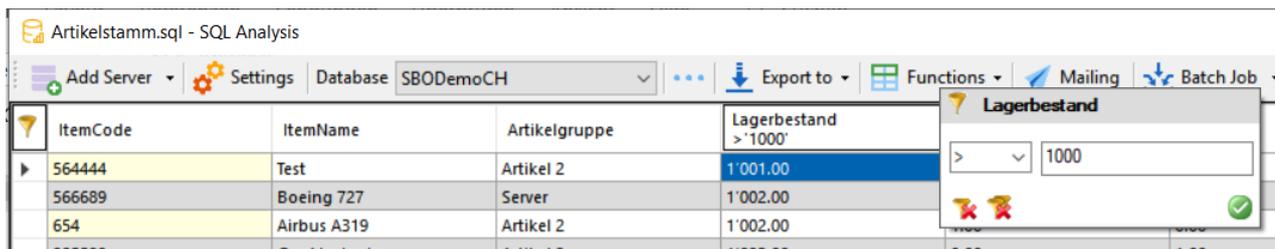
Alternatively (recommended for multiple users), a directory can be created and released on the database server, SQL queries are stored under this path, the user cannot define his own path (users do not have to define a path themselves for this). (see following picture)



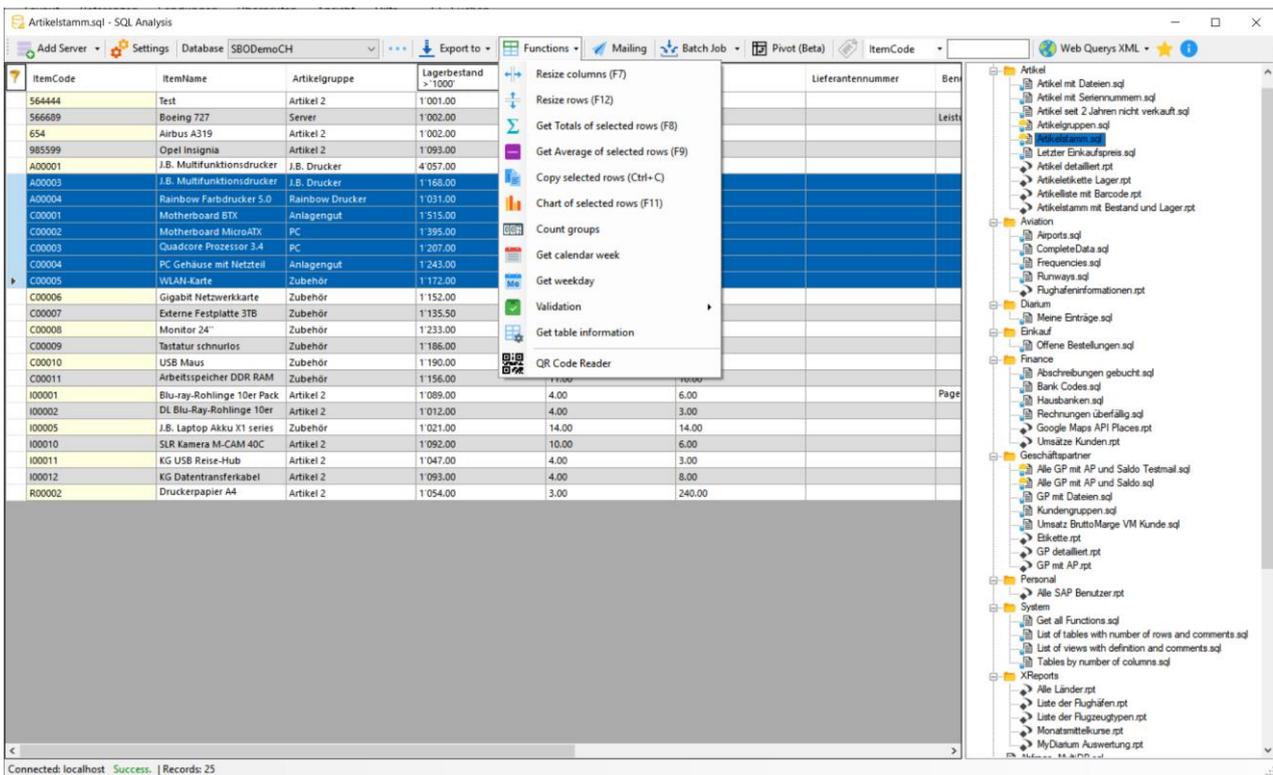
The released folder must be called **sqlanalysis**, a release is necessary (read permissions are sufficient). This folder must also be created on the database server (where the SQL is installed).

Name Directory	SQLANALYSIS
example path	\\SQLSERVER01\SQLANALYSIS

functions



With the right mouse button on a column header you can filter according to any criteria. Several columns can contain a filter at the same time.



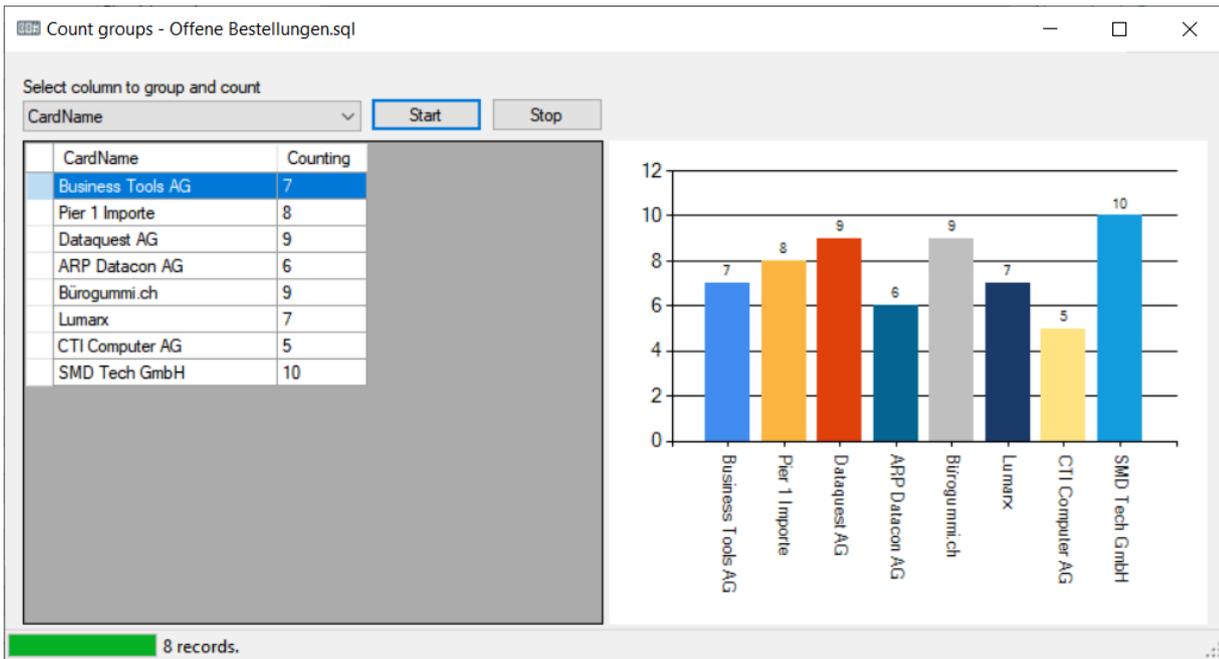
If lines are marked and clicked on **Functions**, you get a selection of different functions, including validation functions.

With the function **Count groups** alphanumeric values can be grouped incl. number.

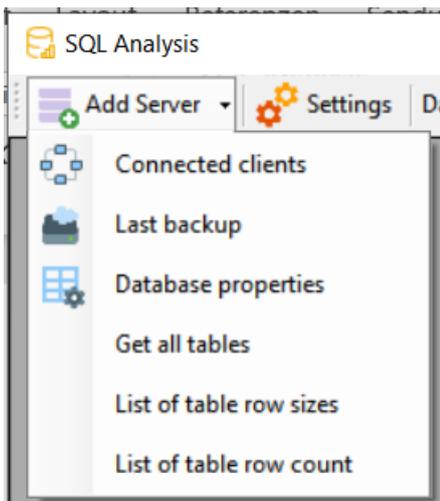
An example of an application would be to group all orders by date, so you could see how many orders are open on which dates.

Or informatively from which cantons or places most customers come.

A third example would be to group the industries, so one would see which industries are most represented.



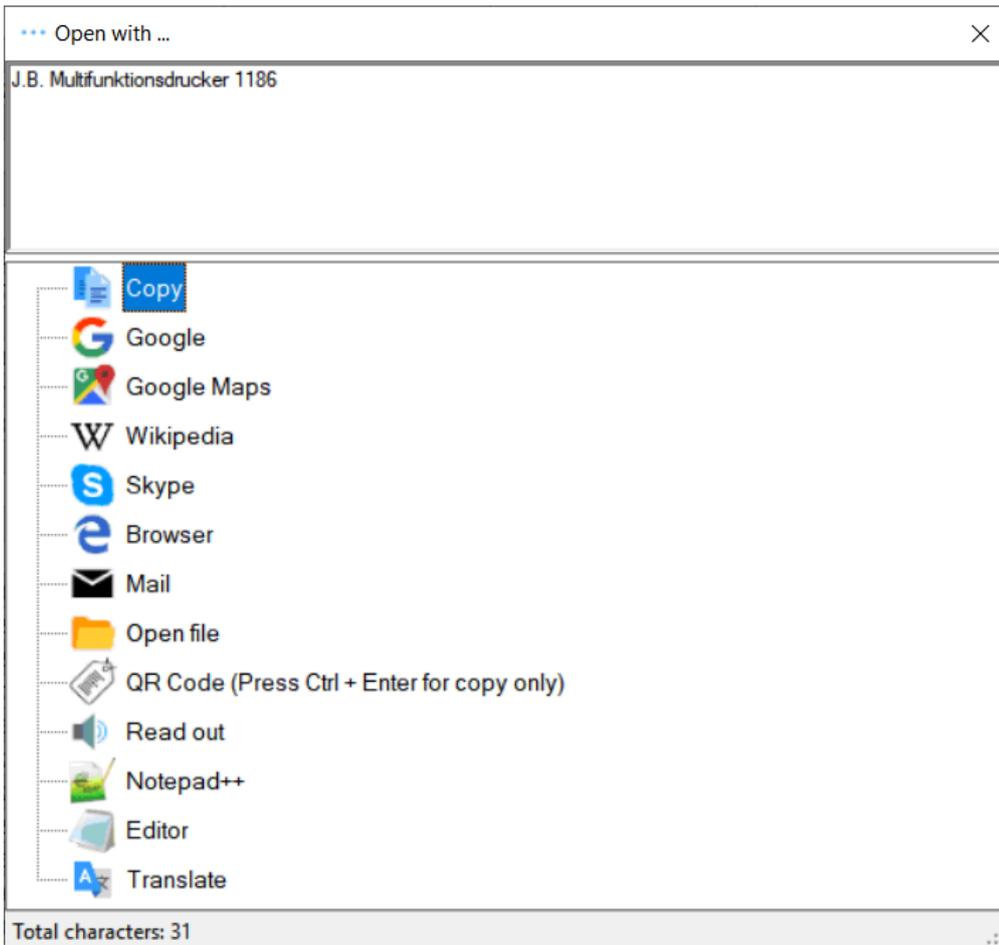
Via **Add Server** there are still built-in, helpful system functions.



[Copy cell values, etc.](#)

A double-click on a cell opens a new window, where the selected value is entered at the top and a function can be selected in the lower part.

If the **Shift key** is pressed and double-clicked on a cell, the content is copied to the clipboard without further windows.

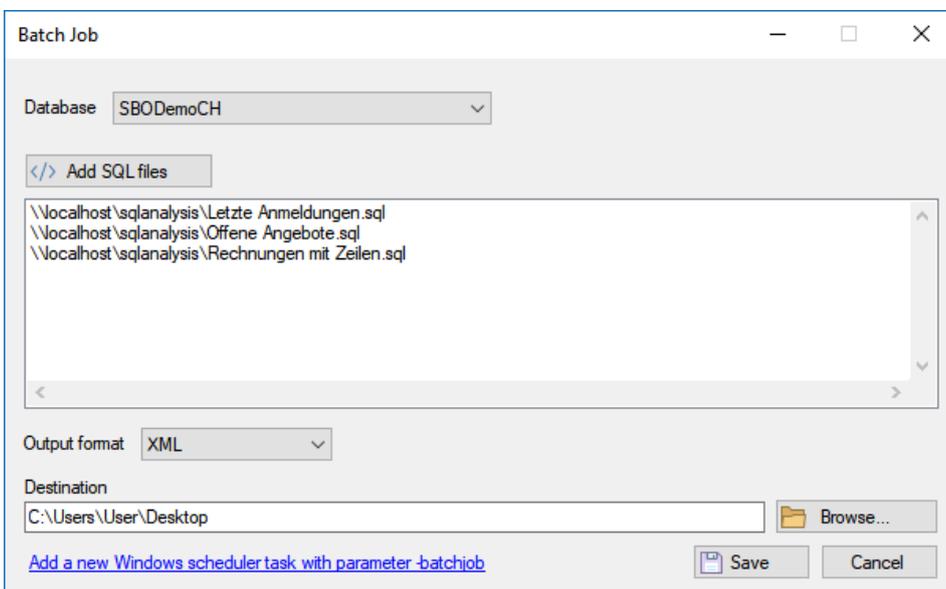


favourites

Frequently used queries / reports can be marked as favorites with the right mouse button. You can then use the toolbar to make only your favorites or everything visible with a single click.

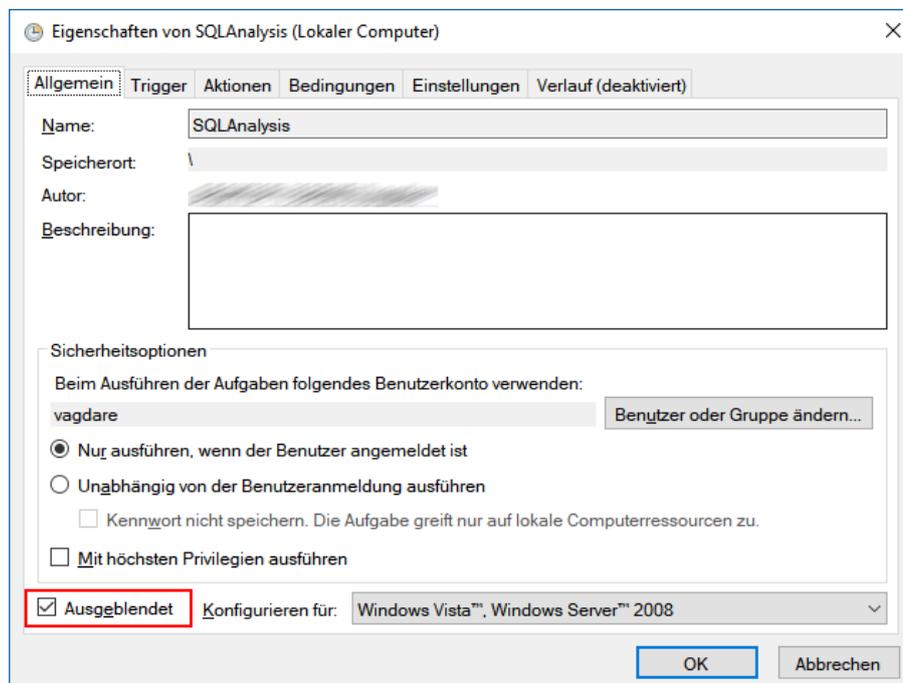
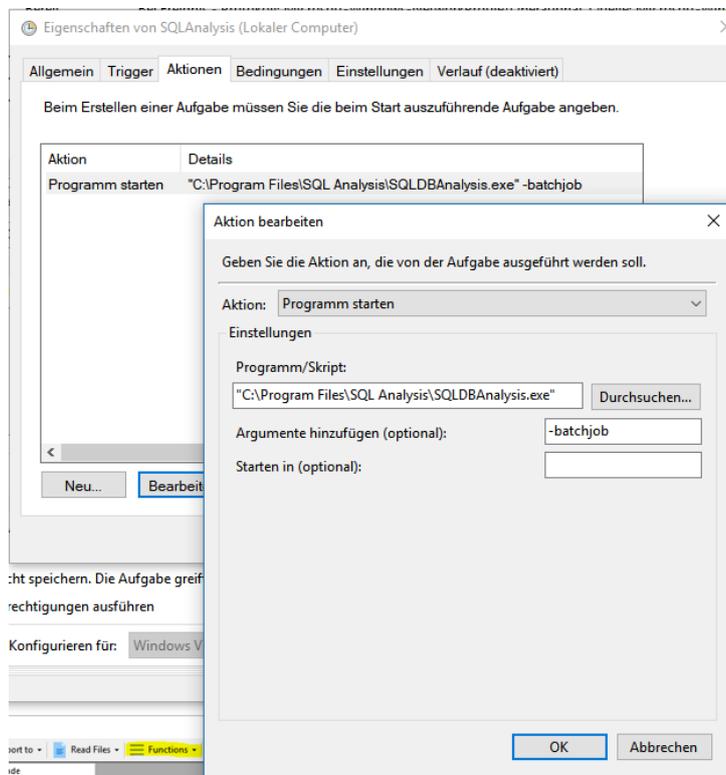
batch job

The Batch Job function can be used to create time-controlled evaluations in various formats and store them in a directory.



Windows Task Scheduling is enabled for scheduled execution. The parameter **-batchjob** is important.

With the link (blue background) the Windows Task Scheduler can be opened.



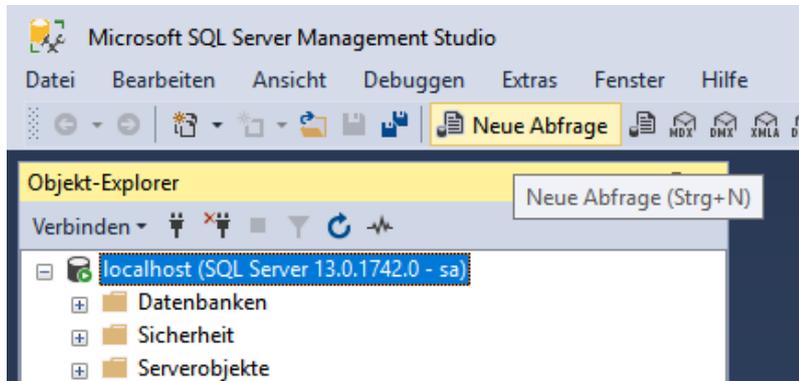
It is recommended to execute the task **Hidden**.

autostart

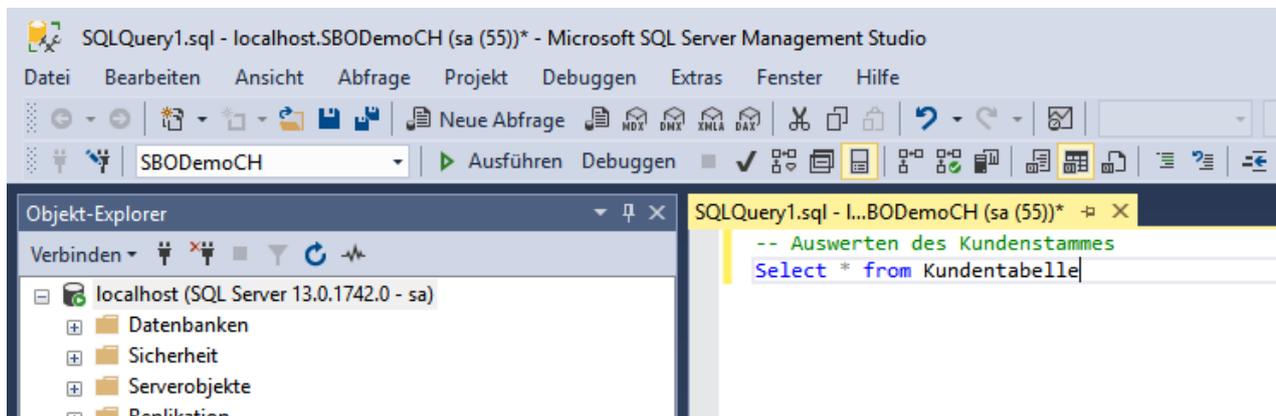
You can define a query for the automatic start at program start. This can be deleted again in the settings.

Creating SQL Queries

Once, the SQL queries must be created as a database. SQL Server Management Studio is very well suited for this, it can be downloaded free of charge from the Microsoft website. It is intended for people with SQL experience, not pure users.



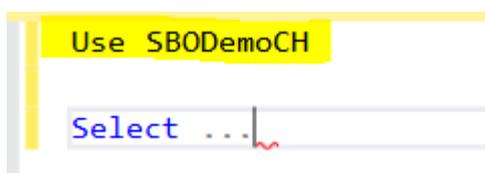
Click on **New query**



Here is a very simple SQL query that returns all columns of a table. In that case, we'll keep it that way. Instead of the asterisk (*) you could alternatively specify the columns you want in the query.

Now all that is missing is to save this query as an SQL file. This can be completed via **File - Save as ...** (please assign a descriptive file name). Make sure that the query is stored in the correct location so that it can be seen in the SQL Analysis software.

If a query should always access a certain database, this can already be specified in the query (yellow marking), this is treated as a priority, before the database selection in the software.



Function Colored lines

It is possible to create an SQL query with conditions and corresponding color codes. The software then automatically displays these lines in the corresponding color. The only condition is that the column with the color code must always be at the end of the query, i.e. the last column.

```

,t0.MinLevel as 'Mindestbestand'
,t0.MinOrdrQty as 'Mindestbestellmenge'
,case when (t0.OnHand <= t0.MinLevel and t0.MinLevel>0) then '#E54C00' end as Farbcode

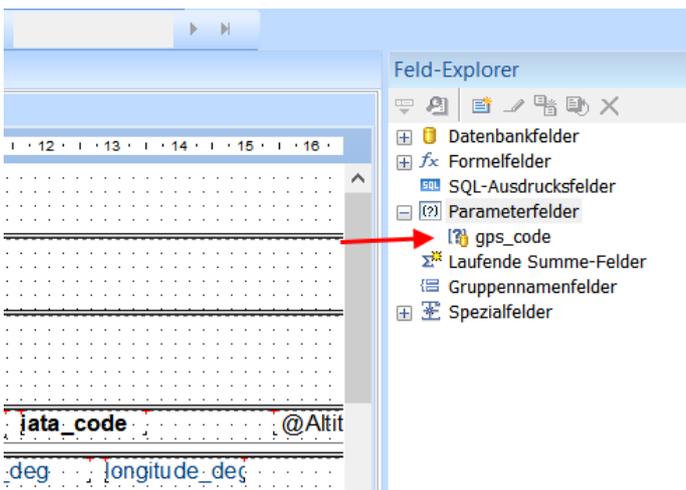
```

ItemCode	ItemName	Artikelgruppe	Lagerbestand	Bestätigt	Bestellt	Lieferantenumm	Benutzertext	Standardlage
MRP_Artikel6	MRP_Artikel6	Artikel 2	0.00	100.00	100.00			
MRP_Artikel8	MRP_Artikel8	Artikel 2	0.00	0.00	110.00			
MRP_Child1	MRP_Child1	Artikel 2	0.00	0.00	0.00			
MRP_Child2	MRP_Child2	Artikel 2	0.00	0.00	0.00			
MRP_Grandchild	MRP_Grandchild	Artikel 2	0.00	0.00	20.00			
MRP_Stückliste1	MRP_Stückliste1	Artikel 2	101.00	10.00	0.00			Allgemeines La
P10001	PC Set Express	PC	33.00	14.00	19.00			
P10002	PC Set Professio	PC	8.00	5.00	1.00			
P10003	PC Set 1	PC	14.00	7.00	4.00			
P10004	PC Set 2	Artikel 2	25.00	9.00	13.00			
P10010	Verkaufsset	Artikel 2	16.00	5.00	12.00			
P10011	Verkaufsset Vorla	Artikel 2	25.00	6.00	5.00			
P10012	Verkaufsset Mo...	Artikel 2	28.00	2.00	1.00			Allgemeines La
R00001	Druckerpapier A...	Artikel 2	732.00	1'296.00	300.00			Allgemeines La
R00002	Druckerpapier A...	Artikel 2	1'054.00	3.00	240.00			Allgemeines La
S10000	Server Point 100	Server	39.00	53.00	14.00			Allgemeines La
s56df4	Fahrzeug	Artikel 2	0.00	0.00	0.00			
TR0001	Reisespesen pr...	Aufwendungen	0.00	0.00	0.00			Allgemeines La
wert	Schwarztee	Artikel 2	8.00	1.00	2.00	6456d		Allgemeines La

Using Parameters in Crystal Reports

It is possible to configure Crystal Reports parameters in such a way that they are based on the contents of tables and thus do not have to be entered each time a report is opened.

The parameters must be named exactly the same in three places. The following picture is intended to illustrate this.



Crystal Report Parameters.

country	gps_code	iata_code

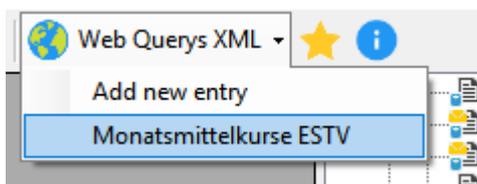
Column in SQL Analysis that returns the values for the parameter.

Parameter name
gps_code

The parameter must also be set with the right mouse button on the report.

Web Queries XML

XML datasets from the web or locally can be conveniently loaded into the software. The familiar SQL Analysis functions are then available.



Name	URL	Table
Monatsmittelkurse ESTV	http://www.pwebapps.ezv.admin.ch/apps/rates/estv/getavgxml	devise

Name is the name displayed in the dropdown menu, **URL** is either a web address leading to an XML or a file located in the network. For **Table**, you must specify the level in the XML that you want to have. In our example this is the *motto*. The following elements are used as data.

```

--<monatsmittelkurs xsi:schemaLocation="http://www.p
  <monat>2019-05</monat>
  -<devise code="eur">
    <land_de>Europäische Währungsunion</land_de>
    <land_fr>Union monétaire européenne</land_fr>
    <land_it>Unione Monetaria Europea</land_it>
    <waehrung>1 EUR</waehrung>
    <kurs>1.1387</kurs>
  </devise>
  -<devise code="usd">
    <land_de>USA</land_de>
    <land_fr>USA</land_fr>
    <land_it>USA</land_it>
    <waehrung>1 USD</waehrung>
    <kurs>1.0115</kurs>
  </devise>

```

SQL Analysis

Add Server Settings Database SBODemoCH Export to Functions Mailing Batch Job Pivot (Be

land_de	land_fr	land_it	waehrung	kurs	code
Europäische	Union monétaire	Unione Monetaria Europea	1 EUR	1.1387	eur
USA	USA	USA	1 USD	1.0115	usd
Ägypten	Egypte	Egitto	100 EGP	5.8572	egp
Albanien	Albanie	Albania	100 ALL	0.9216	all
Argentinien	Argentina	Argentina	1ARS	0.0237	arc

Troubleshooting / Tips

- Special characters should be avoided when creating SQL queries. Spaces, parentheses and hyphens are eliminated by the software.
- SQL Server Management Studio is recommended for creating SQL queries. This can be downloaded and installed free of charge.
<https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms>
- If no connection to the SQL Server can be established, please check the firewall settings, there the port (1433) should be enabled for SQL Server. Virus protection can also be the cause of a faulty connection.
- Comments in SQL queries can be read by users if the title (filename) of the query does not give enough information about the result. Comments must begin with /* and end with */.

```

Abhängigkeiten in...ODemoCH (sa (55))* -> X
/* Gibt alle Prozeduren/Views/Trigger aus, die das Feld (Text) im Code enthalten */
Select o.type_desc, OBJECT_NAME(o.[object_id]) [Name], m.* from sys.sql_modules m
inner join sys.objects o on o.[object_id]=m.[object_id]
where definition like '%! Profit Center%'

```

