



VAN HELVOIRT AUTOMATISERING

IBM i Access Client Solutions SQL Scripting 11 June 2019



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VAN HELVOIRT AUTOMATISERING

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FALCONSTOR





Agenda

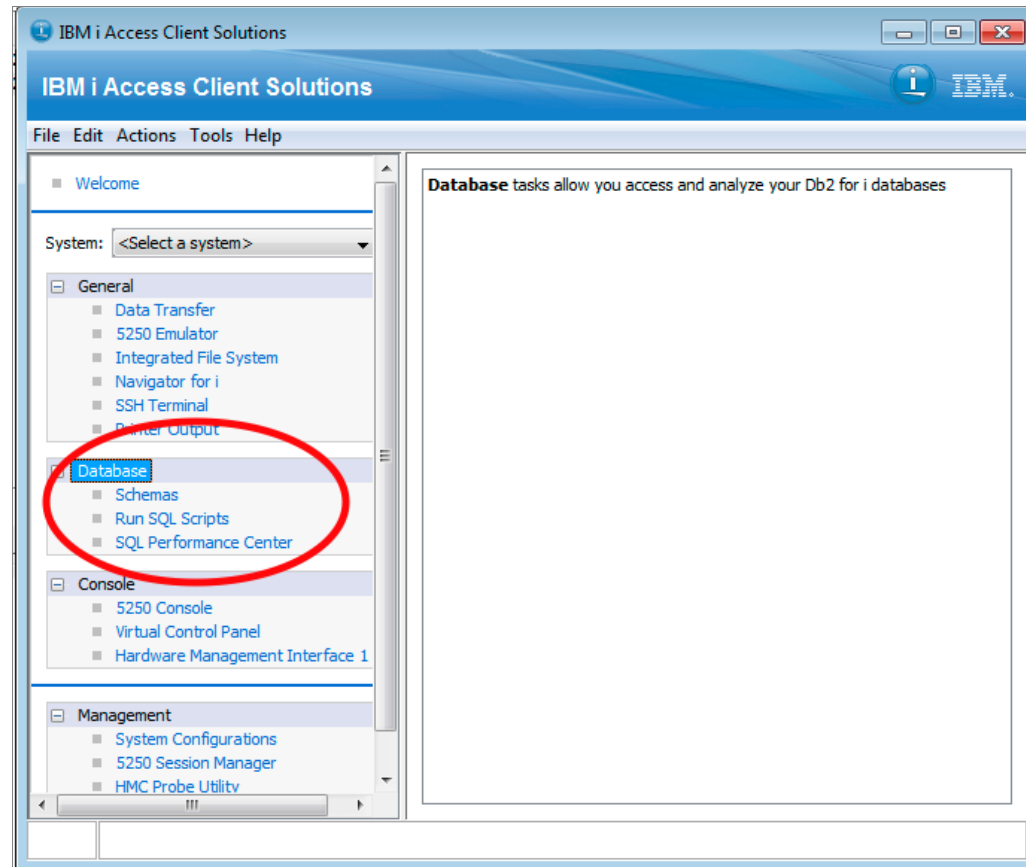
- IBM i Access Client Solutions
- SQL Scripting:
 - GUI
 - 1.1.8.2 Enhancements
 - Earlier Enhancements
 - Examples



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IBM i Access Client Solutions

Run SQL Scripts

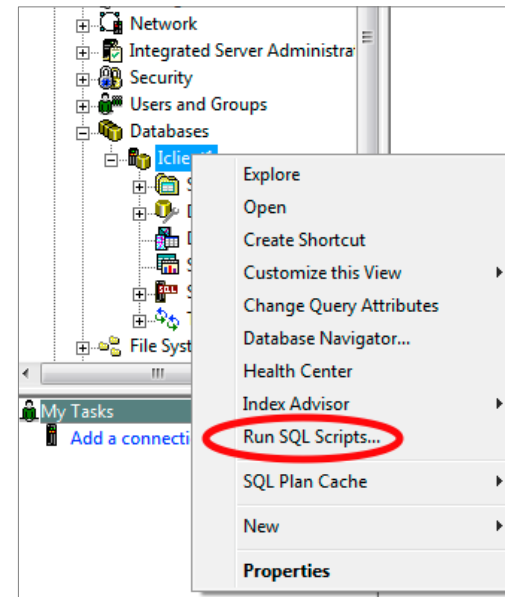




IBM i Access for Windows

Run SQL Scripts

V7R1			
Product ID	Product Description	Product VRM	End of Service
5770XE1	IBM i Access for Windows	V7R1M0	April 30, 2019



=> Not Supported on Windows 10



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Sources IBM i ACS

IBM i Access - Client Solutions

My Entitled Systems Support



IBM i Access – Client Solutions Download

IBM Support

IBM i Access

Overview

Client Solutions

Web/Mobile

Windows

IBM i Access Client Solutions provides a Java based, platform-independent interface that runs on most operating systems that support Java, including Linux, Mac, and Windows™. IBM i Access Client Solutions consolidates the most commonly used tasks for managing your IBM i into one simplified location. The latest version of IBM i Access Client Solutions is available to customers with an IBM i software maintenance contract.

[→ Download IBM i Access Client Solutions base package](#)
[→ QuickStartGuide](#)
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IBM i Access Client Solutions
IBMiAccess_v1r1.zip (102657745 B)

☐

Readme file for 5733-XJ1
[Readme.txt](#) (5 KB)

☐

Quick Start Guide
[QuickStartGuide_en.html](#) (10 KB)

☐

Getting Started
[GettingStarted_en.html](#) (105 KB)

☐

ACS EHLLAPI - Version 8.18.316
acshllapi.exe (1119120 B)

☐

ACS Windows App Pkg English (64bit)
IBMiAccess_v1r1_WindowsAP_English.zip (55123225 B)

☐

ACS Linux App Pkg
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NOTE: You have unread news.

New ordering structure available for 5733-WQX, IB [Read more](#)

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ESS Inventory - a consolidated way to see what y [Read more](#)

Welcome to the software area of Entitled Systems Support.

This section of the ESS website focuses on activities related to **Power and Storage software products**. You can also access **Inventory** here - an option that gathers all relevant software licence, software maintenance and hardware records.

You **need to be registered for one or more customer numbers** to use most of the options, as access to customer numbers is what governs everything you

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IBM i software keys

SWMA Records

Data report

[Help](#) for a list of supported products.

Step 1: Select a category and group

Category:

IBM i

Group:

7.3 (GA)

Continue

Step 2: Select the software you wish to download

	Product Number	Product Name
☐	5770-SS1	IBM i



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SWMA Records

Data report

Register customer number

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Filter product list to show All supported products

Total download size(MB): **20819**

Product				
5770-SS1	details	☒	IBM i	20819

Select all ☒

Total download size(MB): **20819**

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DB2 Web Query for i V2.2.1
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IBM i Access Client Solutions
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Note: Some of the processes to prepare and install the software may be different from what you normally use.

- Follow the instructions to [Prepare to install](#) the software.
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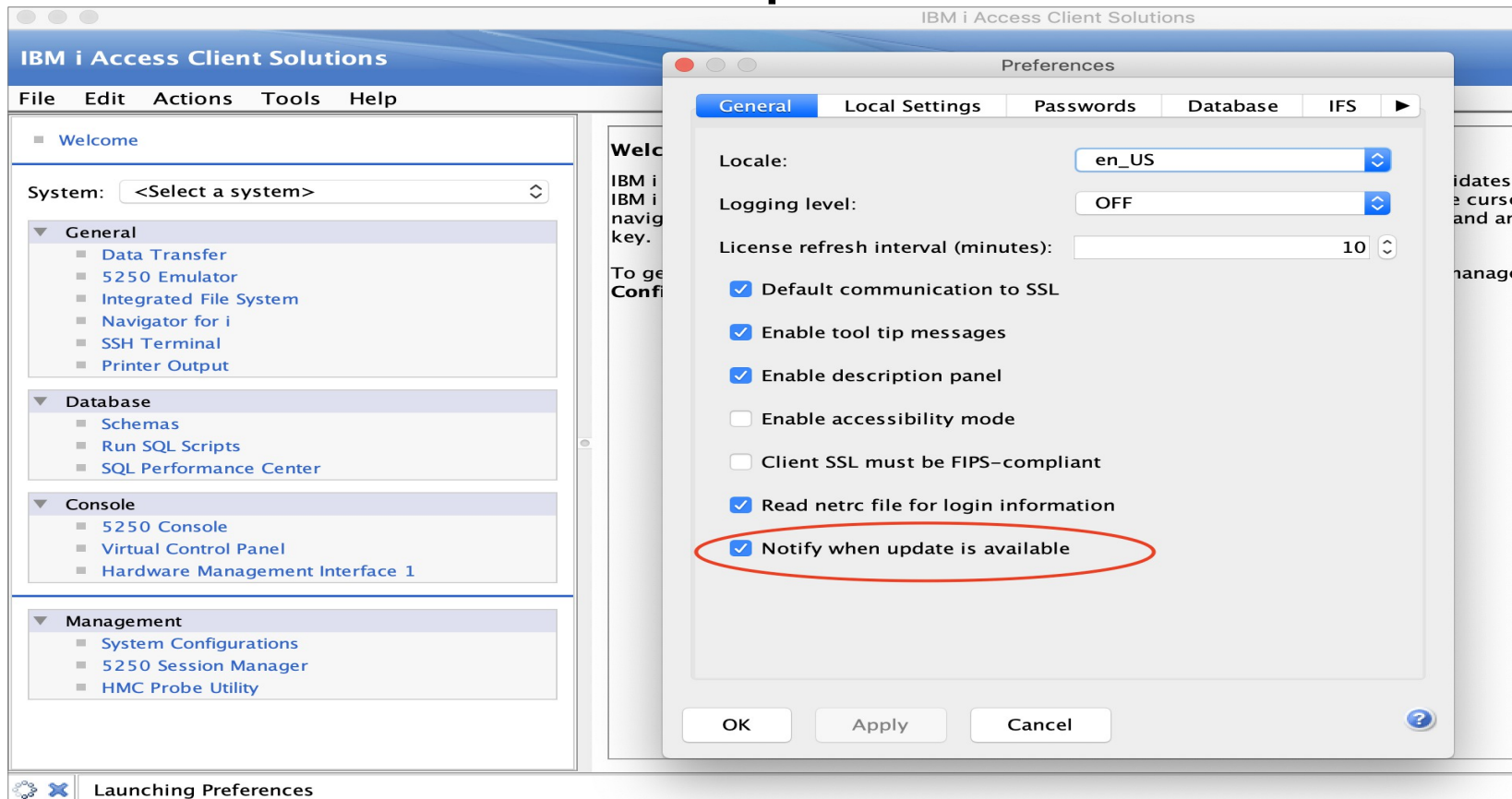
IBM i Access Client Solutions - Linux AP

↓ [IBM i Access Client Solutions - Linux AP LCD8 2012 11.zip](#)



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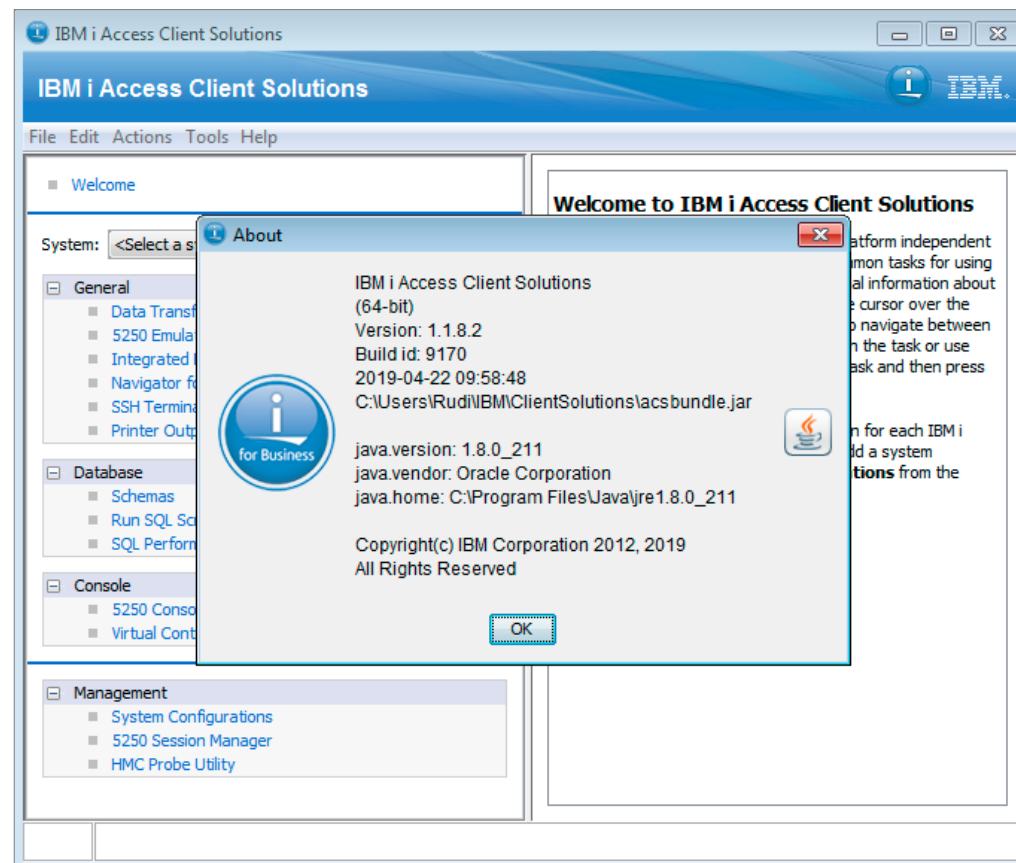
IBM i ACS – Check for updates





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IBM i ACS – Check for updates





VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – 1.1.8.2 Enhancements

Based on [RFE](#) (Request for Enhancement):

- A completely redesigned SQL formatter which understands complex SQL, provides consistent formatting, and detailed error reporting. ([RFEs 94205](#), [100221](#))
- Run SQL statements using IBM i Source physical Files ([RFE 95556](#))
- Run SQL statements using stream files in IFS ([RFE 130016](#))
- Connect with last used database and IASP ([RFE 131741](#))
- Support languages with bidirectional data ([RFE 127738](#))

Other:

- More Insert from Examples
- Additional JDBC connection properties for assigning alternate server name and other attributes (Related to [5770-DBM IBM Db2 Mirror for i V7.4](#))



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – 1.1.8.2 Enhancements

The old SQL Formatter needed an Enhancement:

This:

```
SELECT EMPNO, LASTNAME, PROJNO FROM CORPDATA.EMPLOYEE LEFT JOIN  
CORPDATA.PROJECT ON EMPNO = RESPEMP WHERE LASTNAME > 'S';
```

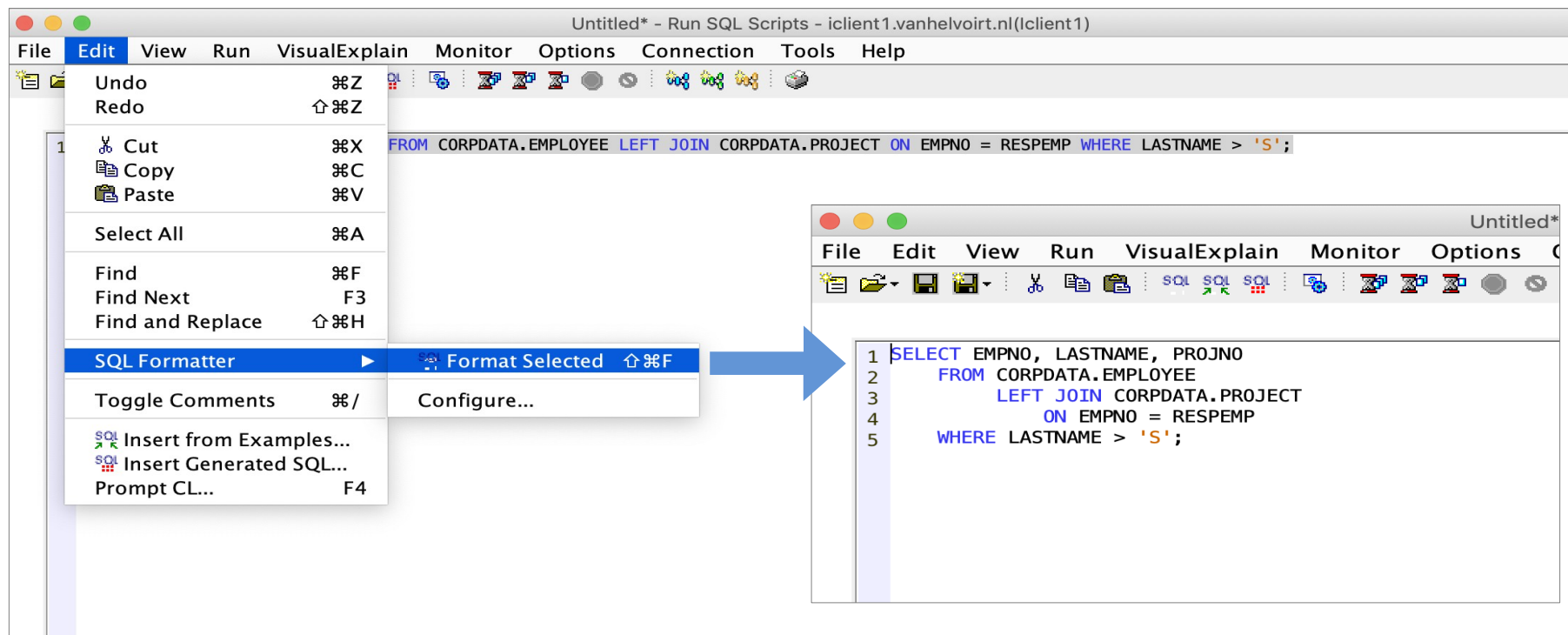
becomes this:

```
SELECT EMPNO, LASTNAME, PROJNO  
FROM CORPDATA.EMPLOYEE LEFT  
JOIN CORPDATA.PROJECT  
ON EMPNO = RESPEMP  
WHERE LASTNAME > 'S'
```



Run SQL Scripts – 1.1.8.2 Enhancements

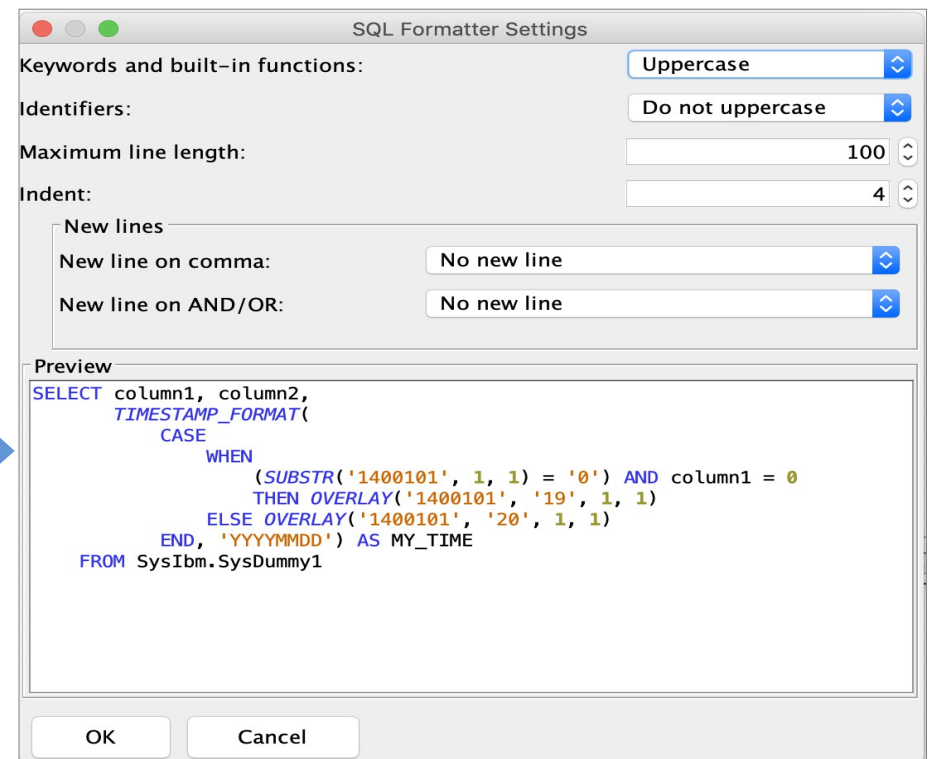
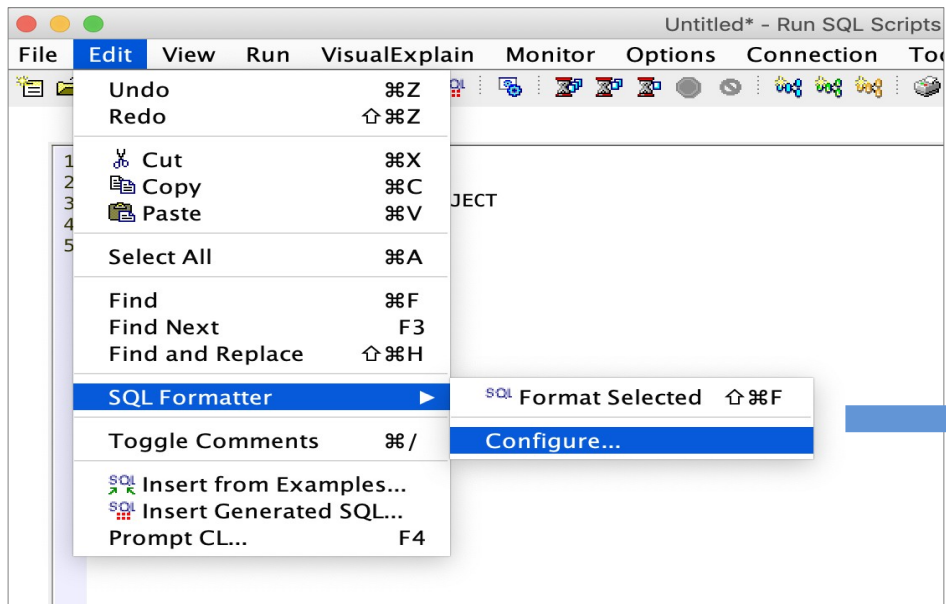
The SQL Formatter





Run SQL Scripts – 1.1.8.2 Enhancements

The SQL Formatter

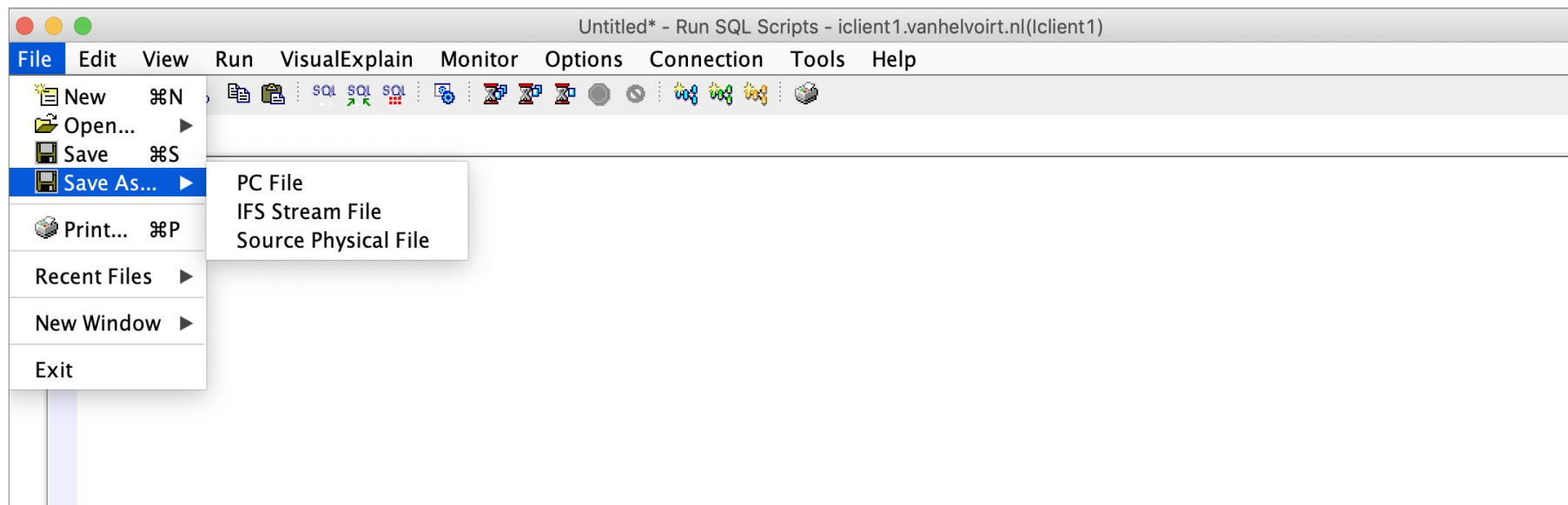




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Run SQL Scripts – 1.1.8.2 Enhancements

Save locations

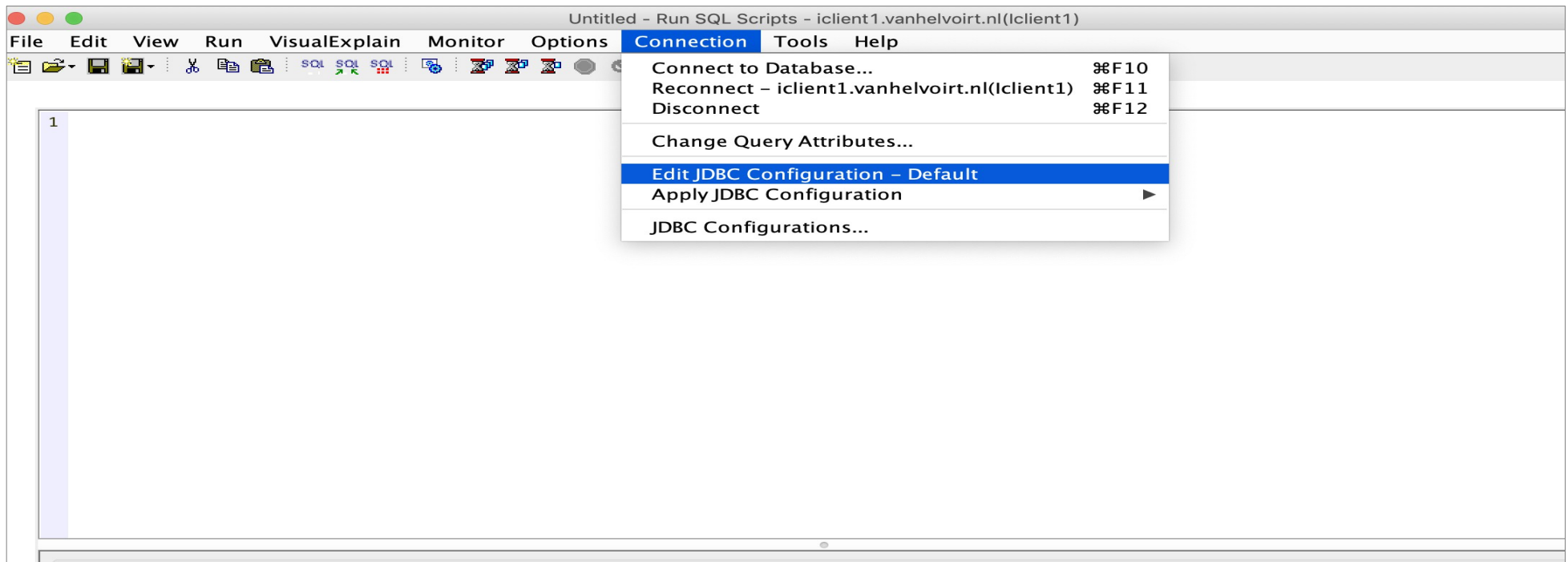




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Run SQL Scripts – 1.1.8.2 Enhancements

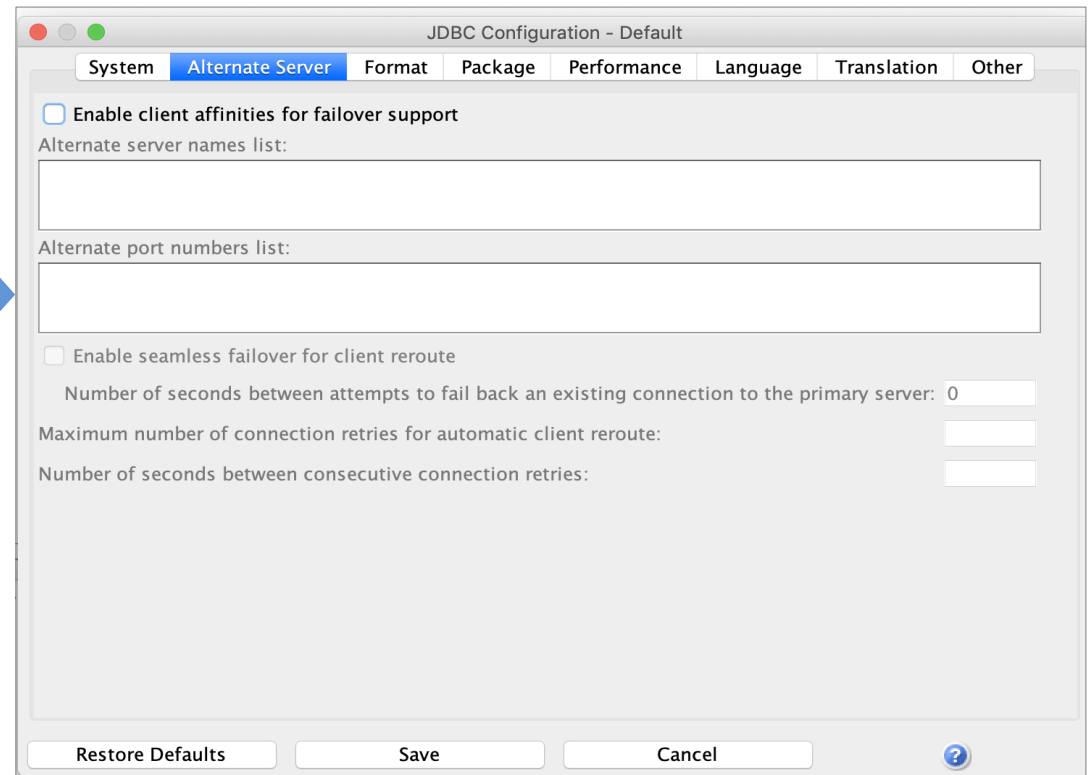
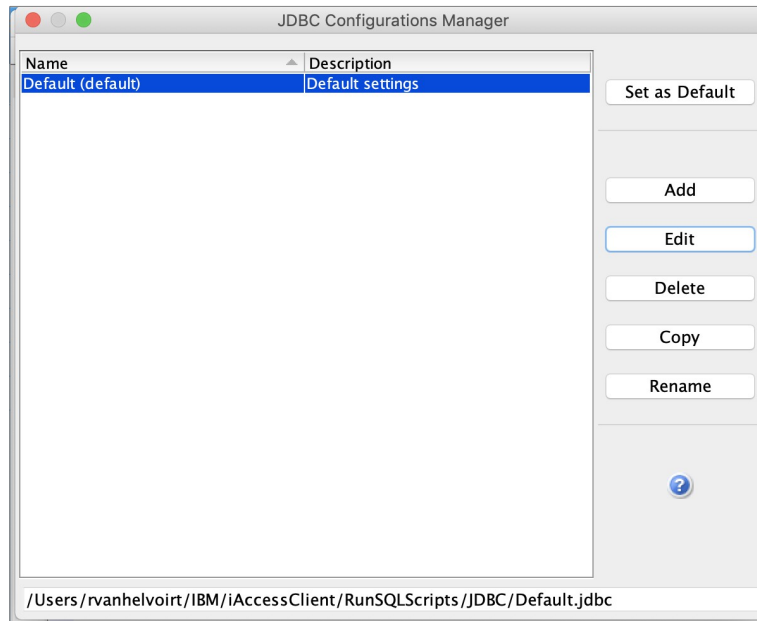
Additional JDBC connection properties





Run SQL Scripts – 1.1.8.2 Enhancements

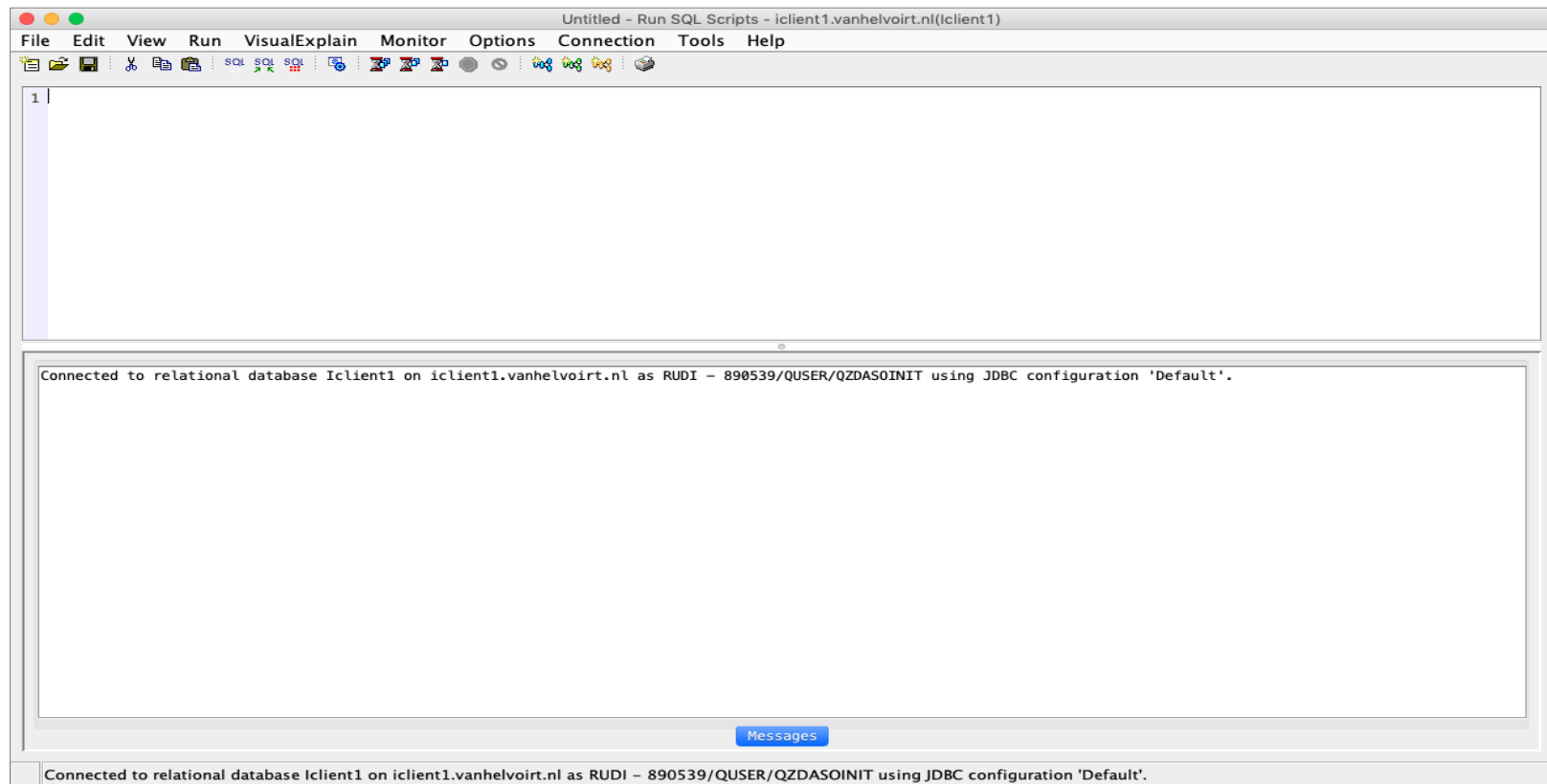
Additional JDBC connection properties





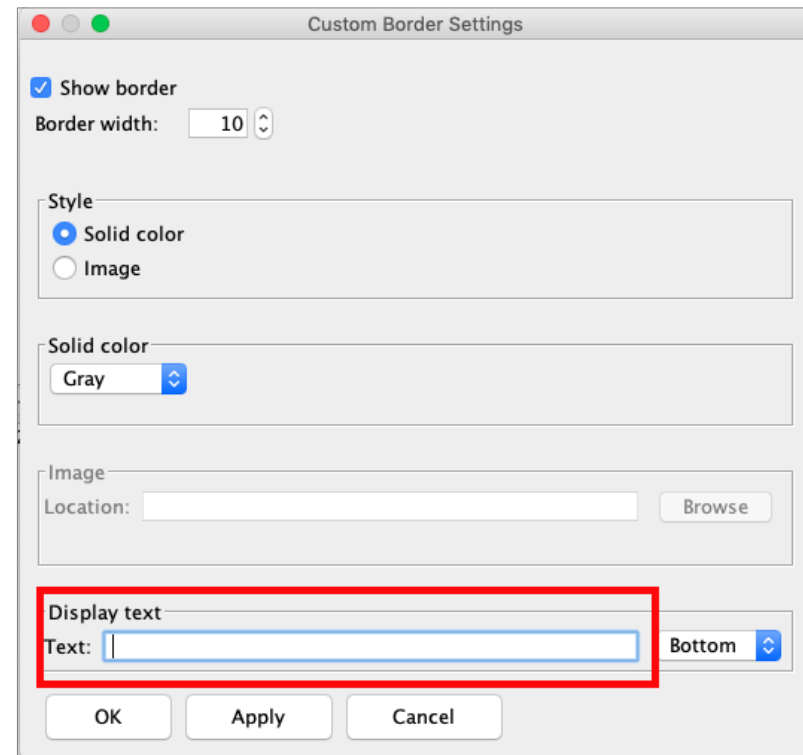
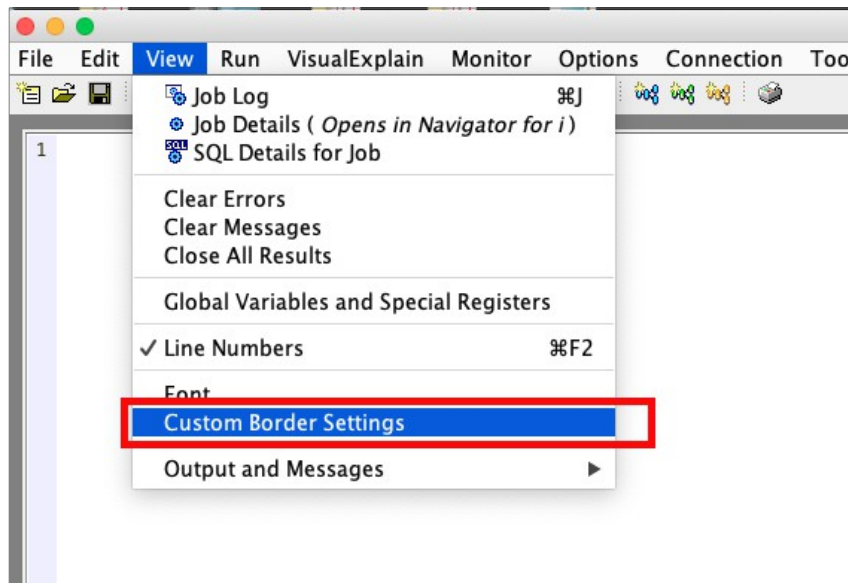
VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements





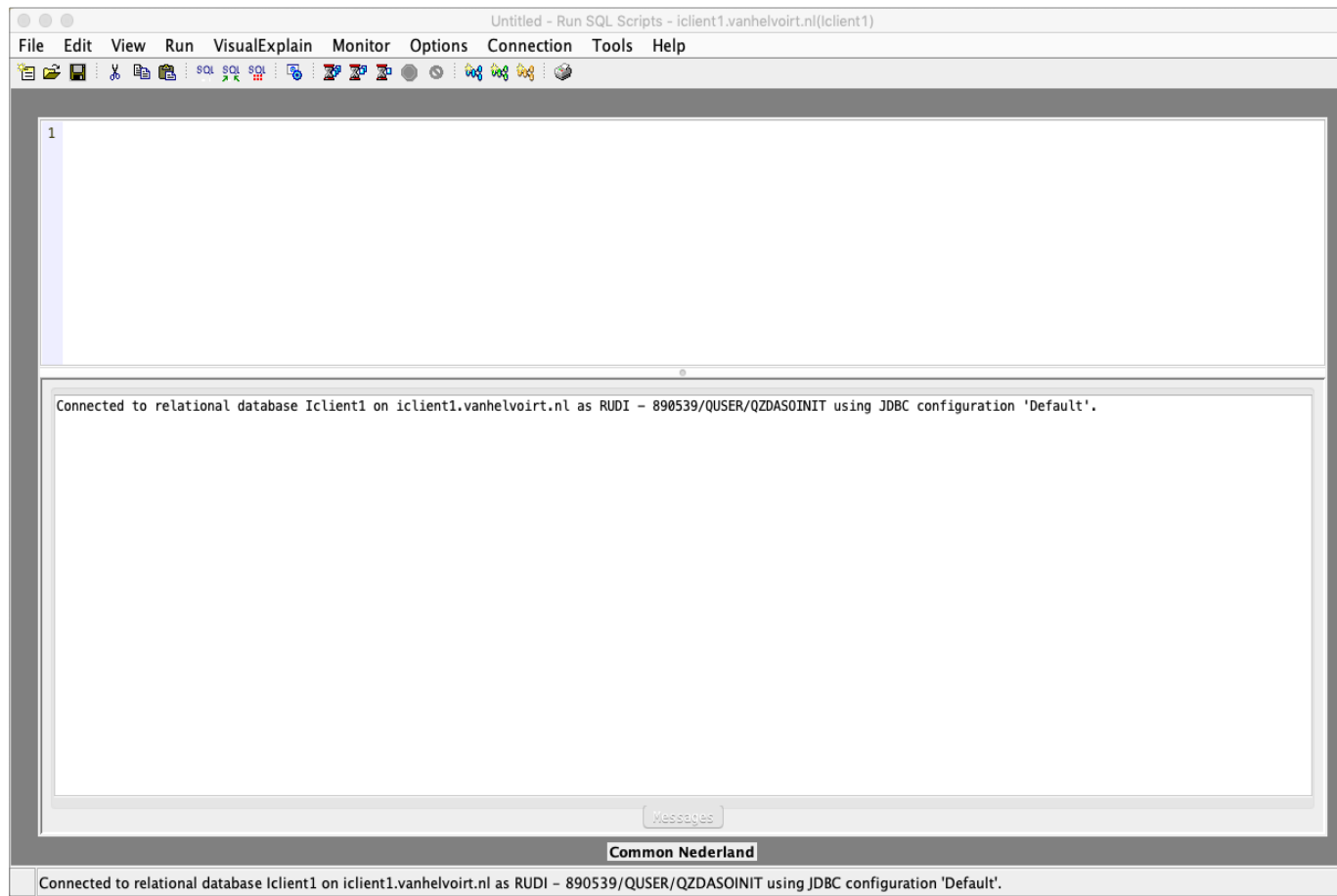
Run SQL Scripts – Earlier Enhancements





VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements





VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

Untitled* - Run SQL Scripts - iclient1.vanhelvoirt.nl(iclient1)

File Edit View Run VisualExplain Monitor Options Connection Tools Help

1 Select * from qiws.qcustcdt;

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CTDDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	21B NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	P0 Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	30545	9999	2	3987.50	33.50
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	14841	1000	1	0.00	0.00
389572	Stevens	K L	208 Snow Pass	Denver	CO	80226	400	1	58.75	1.50
846283	Alison	J S	787 Lake Dr	Isle	MN	56342	5000	3	10.00	0.00
475938	Doe	J W	59 Archer Rd	Sutter	CA	95685	700	2	250.00	100.00
693829	Thomas	A N	3 Dove Circle	Casper	WY	82609	9999	2	0.00	0.00
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	75218	200	1	25.00	0.00
192837	Lee	F L	5963 Oak St	Hector	NY	14841	700	2	489.50	0.50
583990	Abraham	M T	392 Mill St	Isle	MN	56342	9999	3	500.00	0.00

Done: 12 rows retrieved.

Messages Select * from qiws.qcustcdt;

Common Nederland

Connected to relational database iclient1 on iclient1.vanhelvoirt.nl as RUDI - 890539/QUUSER/QZDASOINIT using JDBC configuration 'Default'.



Run SQL Scripts – Earlier Enhancements

Untitled* - Run SQL Scripts - iclient1.vanhelvoirt.nl(iclient1)

File Edit View Run Visual Explain Monitor Options Connection Tools Help

1 Select * from qiws.qcustcdt;

CUSN	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
93	Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
83	NW 135 St	Clay	NY	13041	400	1	100.00	0.00
39	Box 79	Broton	VT	5046	700	1	439.00	0.00
93	Spine Way	Helen	GA	30545	9999	2	3987.50	33.50
39	Myrtle Dr	Hector	NY	14841	1000	1	0.00	0.00
38	Snow Pass	Denver	CO	80226	400	1	58.75	1.50
84	Lake Dr	Isle	MN	56342	5000	3	10.00	0.00
47	Archer Rd	Sutter	CA	95685	700	2	250.00	100.00
69	ove Circle	Casper	WY	82609	9999	2	0.00	0.00
59	SE 2 Ave	Dallas	TX	75218	200	1	25.00	0.00
19	Oak St	Hector	NY	14841	700	2	489.50	0.50
58	Mill St	Isle	MN	56342	9999	3	500.00	0.00

Done: 12 rows retrieved.

Messages Select * from qiws.qcustcdt

Connected to relational database iclient1 on iclient1.vanhelvoirt.nl as RUDI - 913706/QUSER/QZDASOINIT using JDBC configuration 'Default'.



Run SQL Scripts – Earlier Enhancements

The screenshot shows the 'Run SQL Scripts' application window. The main window has a menu bar (File, Edit, View, Run, VisualExplain, Monitor, Options, Connection, Tools, Help) and a toolbar. The SQL script area contains the query: `1 Select * from qiws.qcustcdt;`. Below the script, a table of 12 rows is displayed with columns CUSNUM, LSTNAM, INIT, and STREET. A 'Customize Columns' dialog box is open, showing a list of columns with their widths and visibility. The 'CUSTNUM' column is selected, and its width is set to 58. The dialog also includes buttons for 'Move Up', 'Move Down', 'Top', 'Bottom', 'Default Order', 'Show', and 'Hide', as well as a 'Width (pixels):' field set to 58. At the bottom of the main window, a status bar indicates 'Connected to relational database lclient1 on lclient1.vanhelvoirt.nl as RUDI - 913706/QUSER/QZDASOINIT using JDBC configuration 'Default'.'

Column	Width	Visible
CUSNUM	58	☒
LSTNAM	70	☒
INIT	50	☒
STREET	105	☒
CITY	56	☒
STATE	51	☒
ZIPCOD	58	☒
CDTLMT	58	☒
CHGCOD	58	☒
BALDUE	63	☒
CDTDUE	58	☒

CUSNUM	LSTNAM	INIT	STREET
938472	Henning	G K	4859 Elm Ave
839283	Jones	B D	21B NW 135 St
392859	Vine	S S	P0 Box 79
938485	Johnson	J A	3 Alpine Way
397267	Tyron	W E	13 Myrtle Dr
389572	Stevens	K L	208 Snow Pass
846283	Alison	J S	787 Lake Dr
475938	Doe	J W	59 Archer Rd
693829	Thomas	A N	3 Dove Circle
593029	Williams	E D	485 SE 2 Ave
192837	Lee	F L	5963 Oak St
583990	Abraham	M T	392 Mill St



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

Untitled* - Run SQL Scripts - iclient1.vanhelvoirt.nl(iclient1)

File Edit View Run Visual Explain Monitor Options Connection Tools Help

```
1 Select * from qiws.qcustcdt;
```

CUSNUM	STNAM	TNTT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCD	BALDUE	CDTDUE
9			59 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
8						13041	400	1	100.00	0.00
3						5046	700	1	439.00	0.00
9						30545	9999	2	3987.50	33.50
3						14841	1000	1	0.00	0.00
3						80226	400	1	58.75	1.50
8						56342	5000	3	10.00	0.00
4			Archer Rd	Sutter	CA	95685	700	2	250.00	100.00
6			Dove Circle	Casper	WY	82609	9999	2	0.00	0.00
5			SE 2 Ave	Dallas	TX	75218	200	1	25.00	0.00
1			53 Oak St	Hector	NY	14841	700	2	489.50	0.50
5			2 Mill St	Isle	MN	56342	9999	3	500.00	0.00

Columns...
Column Headings
Refresh
Save Results...
Upload Results...
Copy
Select All
Print...

Done: 12 rows retrieved.

Messages Select * from qiws.qcustcdt

Common Nederland

Connected to relational database iclient1 on iclient1.vanhelvoirt.nl as RUDI - 890539/QUSER/QZDASOINIT using JDBC configuration 'Default'.



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

The screenshot shows the 'Run SQL Scripts' application window. The title bar reads 'Untitled* - Run SQL Scripts - iclient1.vanhelvoirt.nl(iclient1)'. The menu bar includes File, Edit, View, Run, VisualExplain, Monitor, Options, Connection, Tools, and Help. The 'Connection' menu is open, showing options: Connect to Database... (%F10), Reconnect - iclient1.vanhelvoirt.nl(iclient1) (%F11), Disconnect (%F12), Change Query Attributes..., Edit JDBC Configuration - Default (highlighted), Apply JDBC Configuration, and JDBC Configurations... The main text area contains the SQL query: `1 Select * from qiws.qcustcdt;`. Below the query, a table of 12 rows is displayed. The status bar at the bottom indicates 'Done: 12 rows retrieved.' and 'Messages Select * from qiws.qcustcdt'. The footer shows 'Common Nederland' and a connection status message.

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	218 NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	P0 Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	30545	9999	2	3987.50	33.50
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	14841	1000	1	0.00	0.00
389572	Stevens	K L	208 Snow Pass	Denver	CO	80226	400	1	58.75	1.50
846283	Alison	J S	787 Lake Dr	Isle	MN	56342	5000	3	10.00	0.00
475938	Doe	J W	59 Archer Rd	Sutter	CA	95685	700	2	250.00	100.00
693829	Thomas	A N	3 Dove Circle	Casper	WY	82609	9999	2	0.00	0.00
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	75218	200	1	25.00	0.00
192837	Lee	F L	5963 Oak St	Hector	NY	14841	700	2	489.50	0.50
583990	Abraham	M T	392 Mill St	Isle	MN	56342	9999	3	500.00	0.00

Done: 12 rows retrieved.

Messages Select * from qiws.qcustcdt

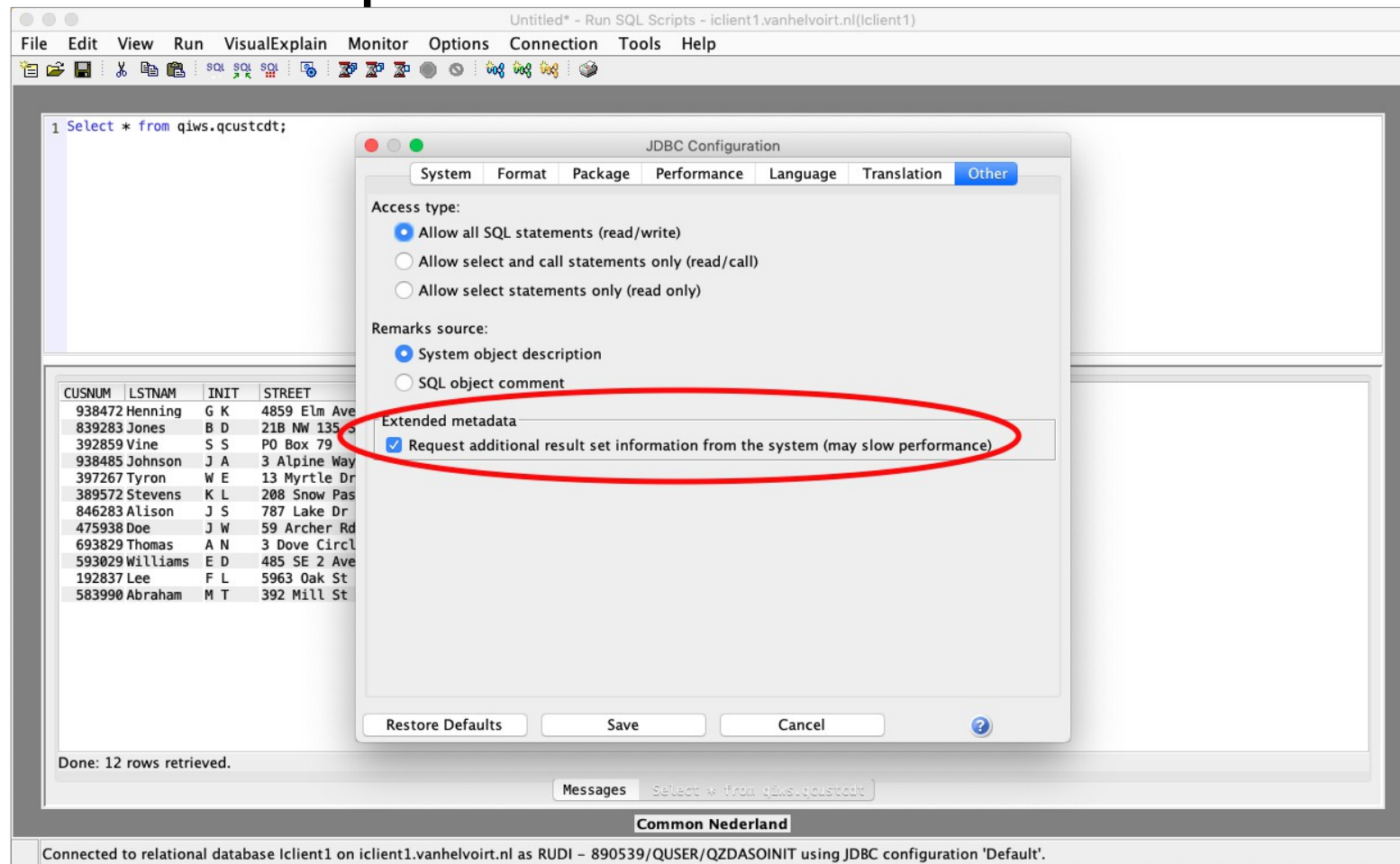
Common Nederland

Connected to relational database iclient1 on iclient1.vanhelvoirt.nl as RUDI - 890539/QUSER/QZDASOINIT using JDBC configuration 'Default'.



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements



Untitled* - Run SQL Scripts - lclient1.vanhelvoirt.nl(lclient1)

File Edit View Run VisualExplain Monitor Options Connection Tools Help

1 Select * from qiws.qcustcdt;

CUSNUM LSTNAM INIT STREET

938472	Henning	G K	4859 Elm Ave
839283	Jones	B D	218 NW 135 St
392859	Vine	S S	P0 Box 79
938485	Johnson	J A	3 Alpine Way
397267	Tyron	W E	13 Myrtle Dr
389572	Stevens	K L	208 Snow Pas
846283	Alison	J S	787 Lake Dr
475938	Doe	J W	59 Archer Rd
693829	Thomas	A N	3 Dove Circle
593029	Williams	E D	485 SE 2 Ave
192837	Lee	F L	5963 Oak St
583990	Abraham	M T	392 Mill St

Done: 12 rows retrieved.

Messages Select * from qiws.qcustcdt

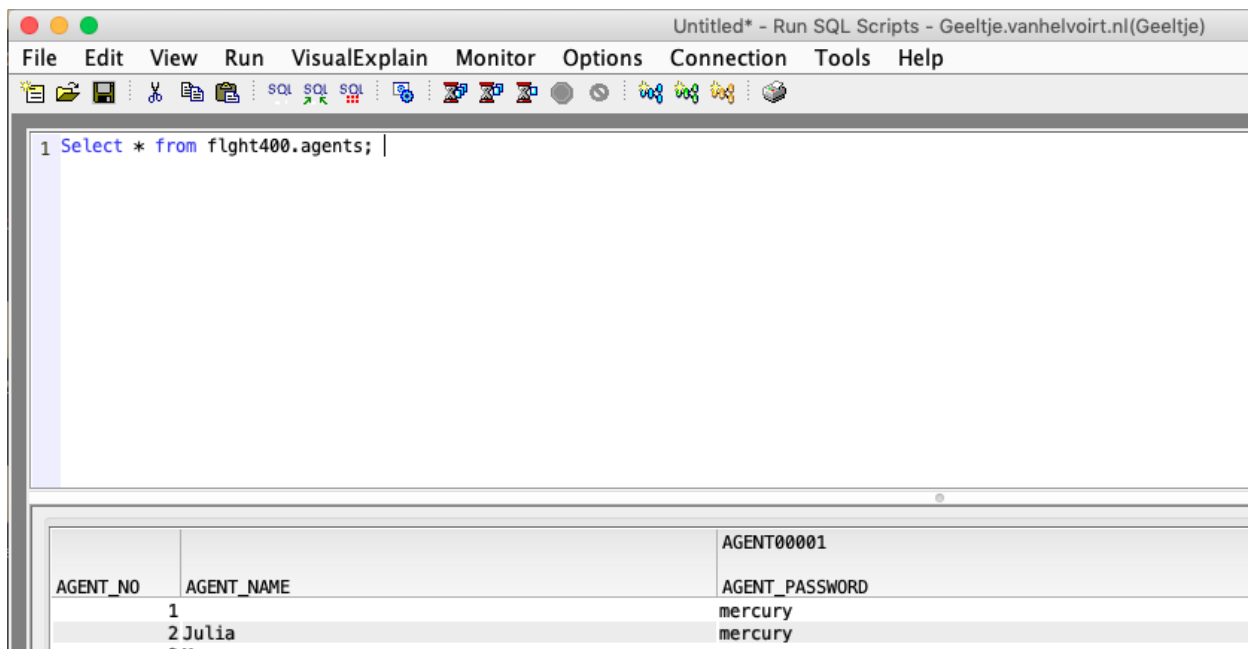
Common Nederland

Connected to relational database lclient1 on lclient1.vanhelvoirt.nl as RUDI - 890539/QUSER/QZDASOINIT using JDBC configuration 'Default'.



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements





The screenshot displays a SQL client window titled "Untitled* - Run SQL Scripts - iclient1.vanhelvoirt.nl(liclient1)". The menu bar includes File, Edit, View, Run, Visual Explain, Monitor, Options, Connection, Tools, and Help. The toolbar contains icons for file operations, SQL execution, and monitoring.

The SQL editor shows the query: `1 Select * from qiws.qcustcdt for update;`

The result set displays 12 rows of data with the following columns: CUSNUM, LSTNAM, INIT, STREET, CITY, STATE, ZIPCOD, CDTLMT, CHGCOD, BALDUE, and CDTDUE.

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	218 NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	PO Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	30545	9999	2	3987.50	33.50
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	14841	1000	1	0.00	0.00
389572	Stevens	K L	208 Snow Pass	Denver	CO	80226	400	1	58.75	1.50
846283	Alison	J S	787 Lake Dr	Isle	MN	56342	5000	3	10.00	0.00
475938	Doe	J W	59 Archer Rd	Sutter	CA	95685	700	2	250.00	100.00
693829	Thomas	A N	3 Dove Circle	Casper	WY	82609	9999	2	0.00	0.00
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	75218	200	1	25.00	0.00
192837	Lee	F L	5963 Oak St	Hector	NY	14841	700	2	489.50	0.50
583990	Abraham	M T	392 Mill St	Isle	MN	56342	9999	3	500.00	0.00

Done: 12 rows retrieved.

Messages: Select * from qiws.qcustcdt for update

Common Nederland

Connected to relational database iclient1 on iclient1.vanhelvoirt.nl as RUDI - 890546/QUSER/QZDASOINIT using JDBC configuration 'Default'.



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

Untitled* - Run SQL Scripts - iclient1.vanhelvoirt.nl (Iclient1)

File Edit View Run VisualExplain Monitor Options Connection Tools Help

1 Select * from qiws.qcustcdt for update;

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	218 NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	PO Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	30545	9999	2	3987.50	33.50
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	14841	1000	1	0.00	0.00
389572	Stevens	K L	208 Snow Pass	Denver	CO	80226	400	1	58.75	1.50
846283	Alison	J S	787 Lake Dr	Isle	MN	56342	5000	3	10.00	0.00
475938	Doe	J W	59 Archer Rd	Sutter	CA	95685	700	2	250.00	100.00
693829	Thomas	A N	3 Dove Circle	Casper	WY	82609	9999	2	0.00	0.00
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	75218	200	1	25.00	0.00
192837	Lee	F L	5963 Oak St	Hector	NY	14841	700	2	489.50	0.50
583990	Abraham	M T	392 Mill St	Isle	MN	56342	9999	3	500.00	0.00

Done: 12 rows retrieved.

Messages Select * from qiws.qcustcdt for update

Common Nederland

Connected to relational database Iclient1 on iclient1.vanhelvoirt.nl as RUDI - 890546/QUSER/QZDASOINIT using JDBC configuration 'Default'.



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

The screenshot shows a SQL client window titled "Untitled* - Run SQL Scripts - iclient1.vanhelvoirt.nl(liclient1)". The window has a menu bar with "File", "Edit", "View", "Run", "VisualExplain", "Monitor", "Options", "Connection", "Tools", and "Help". Below the menu bar is a toolbar with various icons. The main area contains a text editor with the following SQL query:

```
1 Select * from qiws.qcustcdt where cusnum in (583990,938472) for update;
```

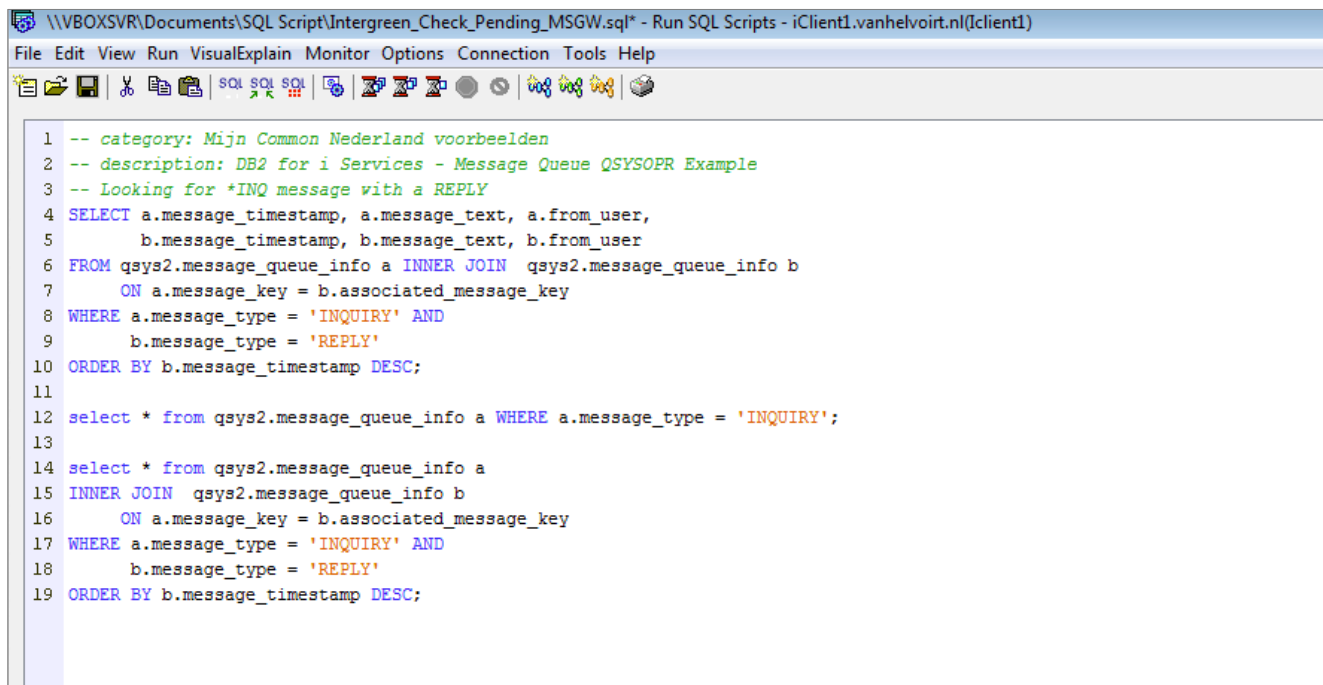
Below the text editor is a table displaying the results of the query. The table has 11 columns: CUSNUM, LSTNAM, INIT, STREET, CITY, STATE, ZIPCOD, CDTLMT, CHGCD, BALDUE, and CDTDUE. The data is as follows:

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
583990	Abraham	M T	392 Mill St	Isle	MN	56342	9999	3	500.00	0.00

Below the table, it says "Done: 2 rows retrieved." At the bottom of the window, there is a status bar that reads "Connected to relational database iclient1 on iclient1.vanhelvoirt.nl as RUDI - 890546/QUSER/QZDASOINIT using JDBC configuration 'Default'".



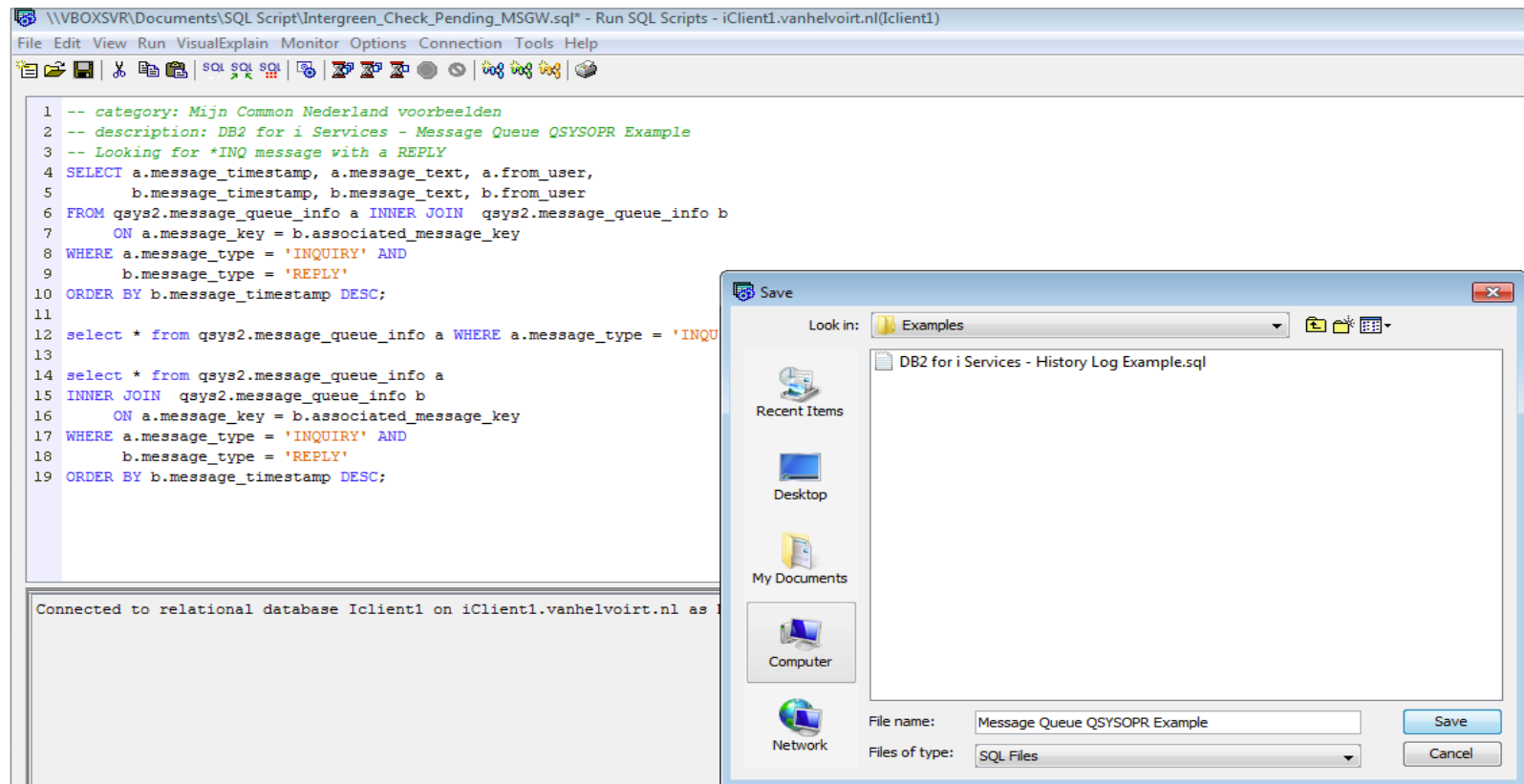
Run SQL Scripts – Earlier Enhancements



```
1  -- category: Mijn Common Nederland voorbeelden
2  -- description: DB2 for i Services - Message Queue QSYSOPR Example
3  -- Looking for *INQ message with a REPLY
4  SELECT a.message_timestamp, a.message_text, a.from_user,
5         b.message_timestamp, b.message_text, b.from_user
6  FROM qsys2.message_queue_info a INNER JOIN qsys2.message_queue_info b
7     ON a.message_key = b.associated_message_key
8  WHERE a.message_type = 'INQUIRY' AND
9         b.message_type = 'REPLY'
10 ORDER BY b.message_timestamp DESC;
11
12 select * from qsys2.message_queue_info a WHERE a.message_type = 'INQUIRY';
13
14 select * from qsys2.message_queue_info a
15 INNER JOIN qsys2.message_queue_info b
16     ON a.message_key = b.associated_message_key
17 WHERE a.message_type = 'INQUIRY' AND
18        b.message_type = 'REPLY'
19 ORDER BY b.message_timestamp DESC;
```



Run SQL Scripts – Earlier Enhancements

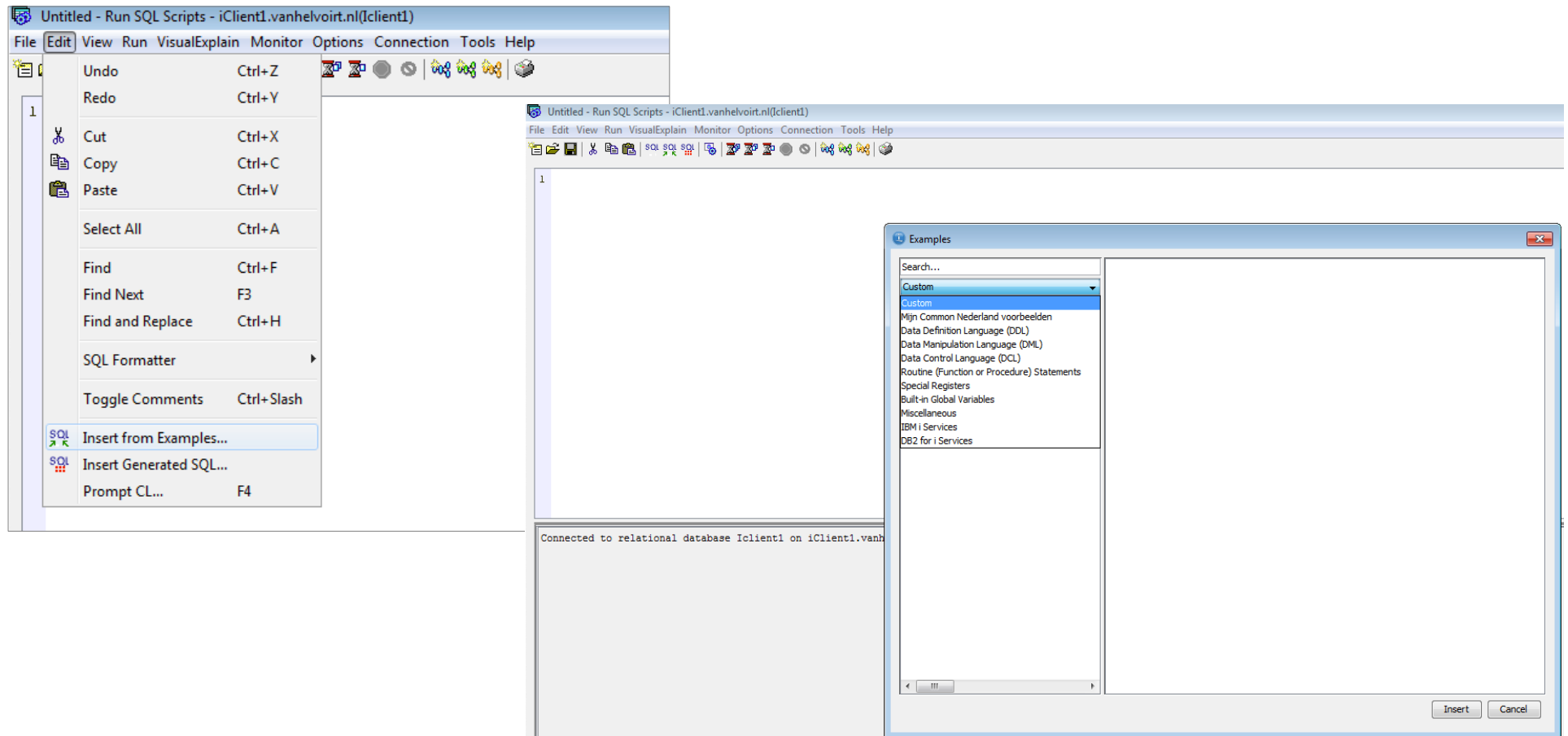


c:/users/<username>/Documents\IBM\iAccessClient\RunSQLScripts\Examples



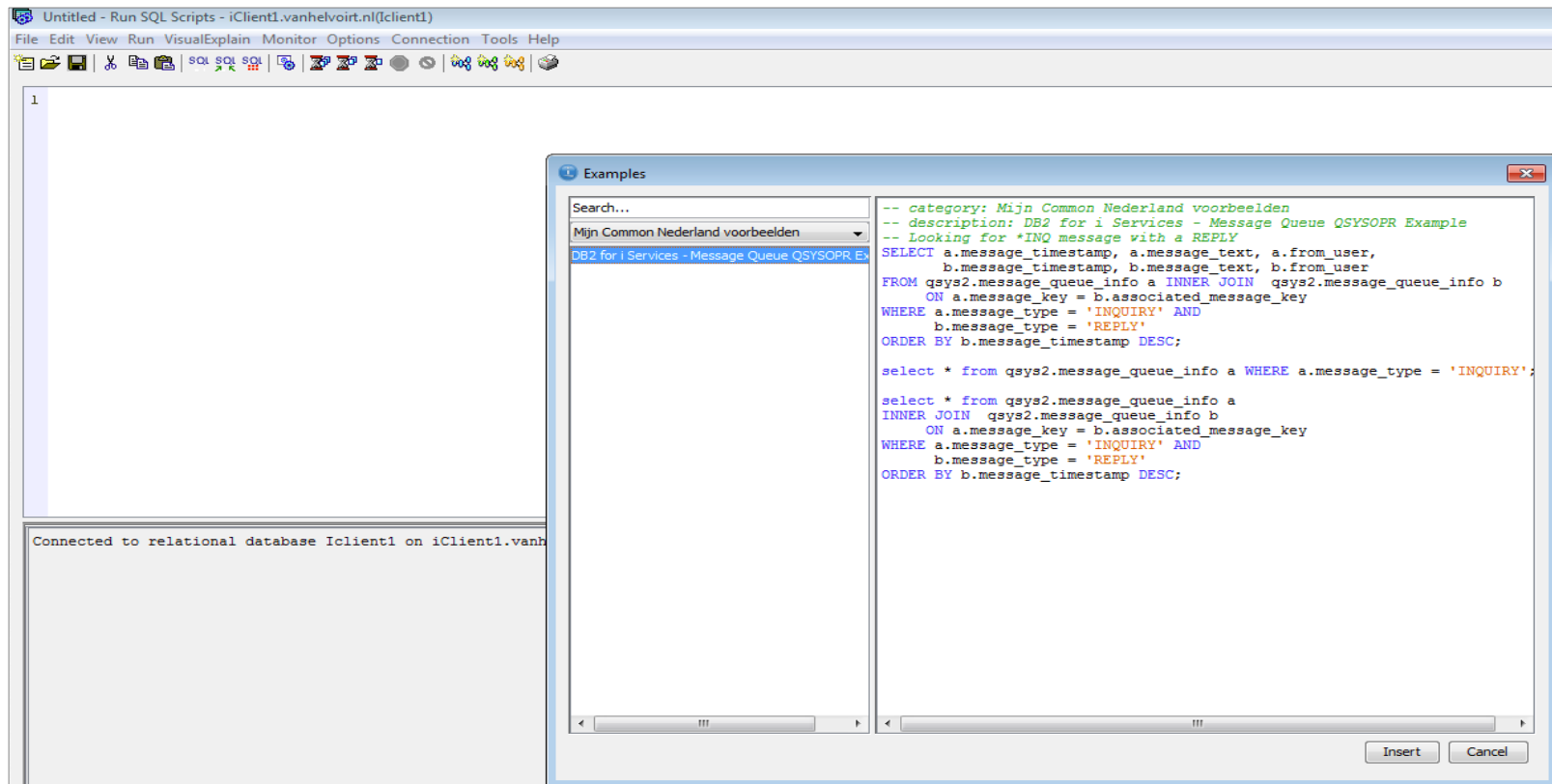
VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements





Run SQL Scripts – Earlier Enhancements





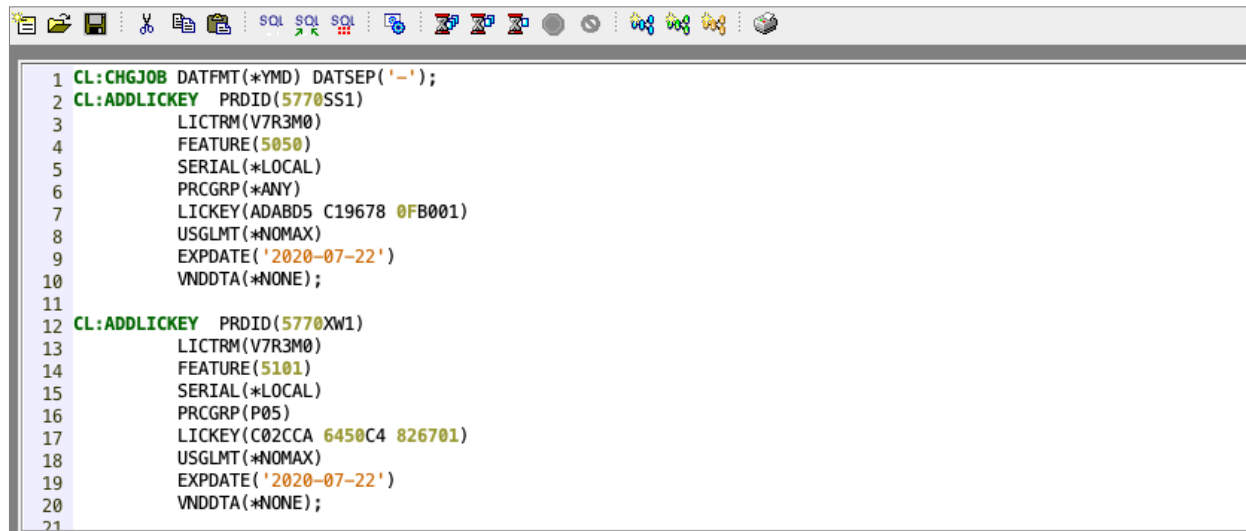
Run SQL Scripts – Earlier Enhancements

A screenshot of a software application window with a menu bar (File, Edit, View, Run, Visual Explain, Monitor, Options, Connection, Tools, Help) and a toolbar. The main area contains a SQL script with line numbers 1 through 15. The script includes commands like CL:ENDTCPSVR, CL:SNDPTFORD, CL:LODPTF, CL:APYPTF, CL:ADDENVVAR, and CL:STRTCPSVR, along with a comment line.

```
1 CL:ENDTCPSVR SERVER(*SNMP);
2
3 CL:SNDPTFORD PTFID({SI68425}) CHKPTF(*YES);
4
5 CL:LODPTF LICPGM(5770SS1) SELECT(SI68425);
6
7 CL:APYPTF LICPGM(5770SS1) SELECT(SI68425);
8
9 CL:ADDENVVAR ENVVAR(QIBM_SNMV3_AUTH) VALUE('2') LEVEL(*SYS);
10
11 CL:STRTCPSVR SERVER(*SNMP);
12 |
13 -- End Just in case to reverse the change
14
15 -- CL:RMVENVVAR ENVVAR(QIBM_SNMV3_AUTH) LEVEL(*SYS);
```



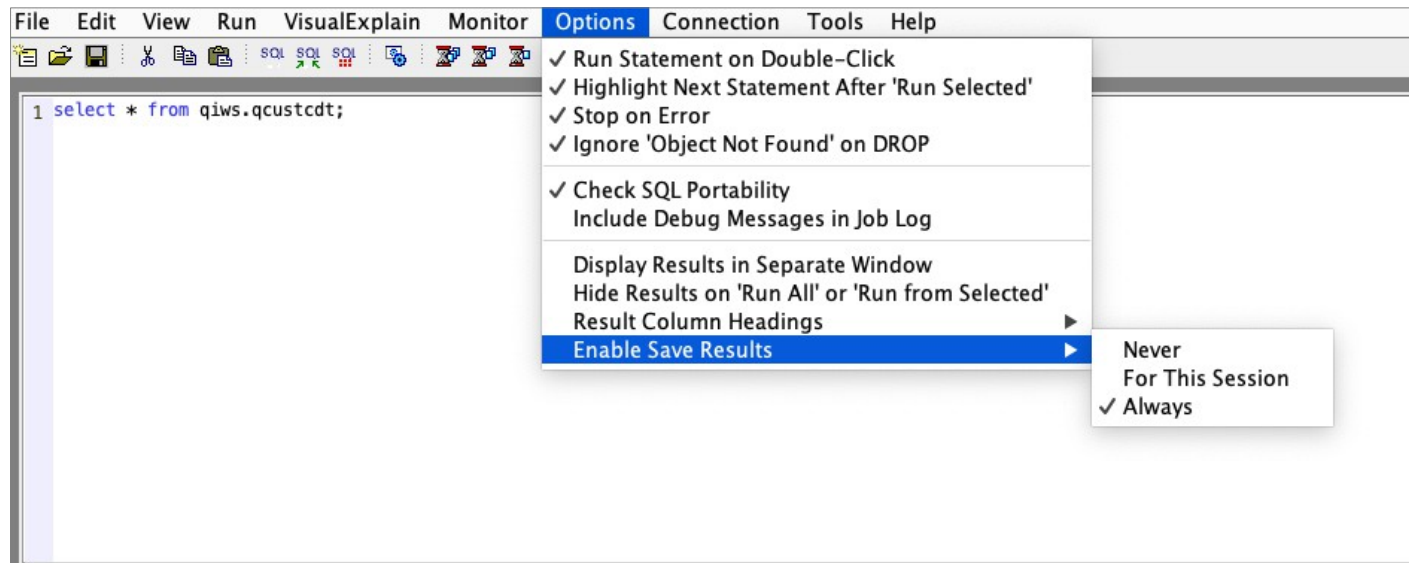
Run SQL Scripts – Earlier Enhancements



```
1 CL:CHGJOB DATFMT(*YMD) DATSEP('-');
2 CL:ADDLICKEY PRDID(5770SS1)
3     LICTRM(V7R3M0)
4     FEATURE(5050)
5     SERIAL(*LOCAL)
6     PRCGRP(*ANY)
7     LICKEY(ADABD5 C19678 0FB001)
8     USGLMT(*NOMAX)
9     EXPDATE('2020-07-22')
10    VNDDTA(*NONE);
11
12 CL:ADDLICKEY PRDID(5770XW1)
13    LICTRM(V7R3M0)
14    FEATURE(5101)
15    SERIAL(*LOCAL)
16    PRCGRP(P05)
17    LICKEY(C02CCA 6450C4 826701)
18    USGLMT(*NOMAX)
19    EXPDATE('2020-07-22')
20    VNDDTA(*NONE);
21
```

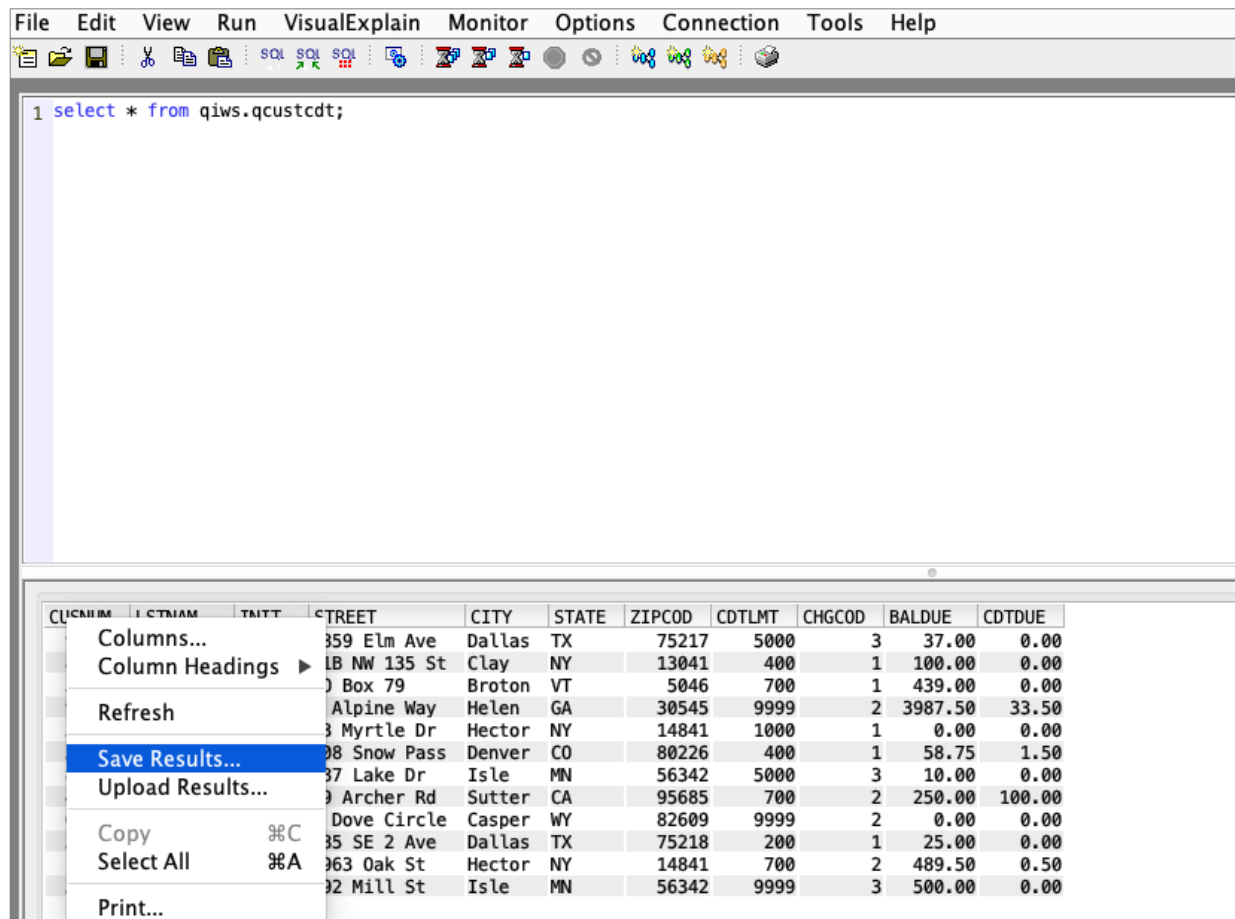


Run SQL Scripts – Earlier Enhancements



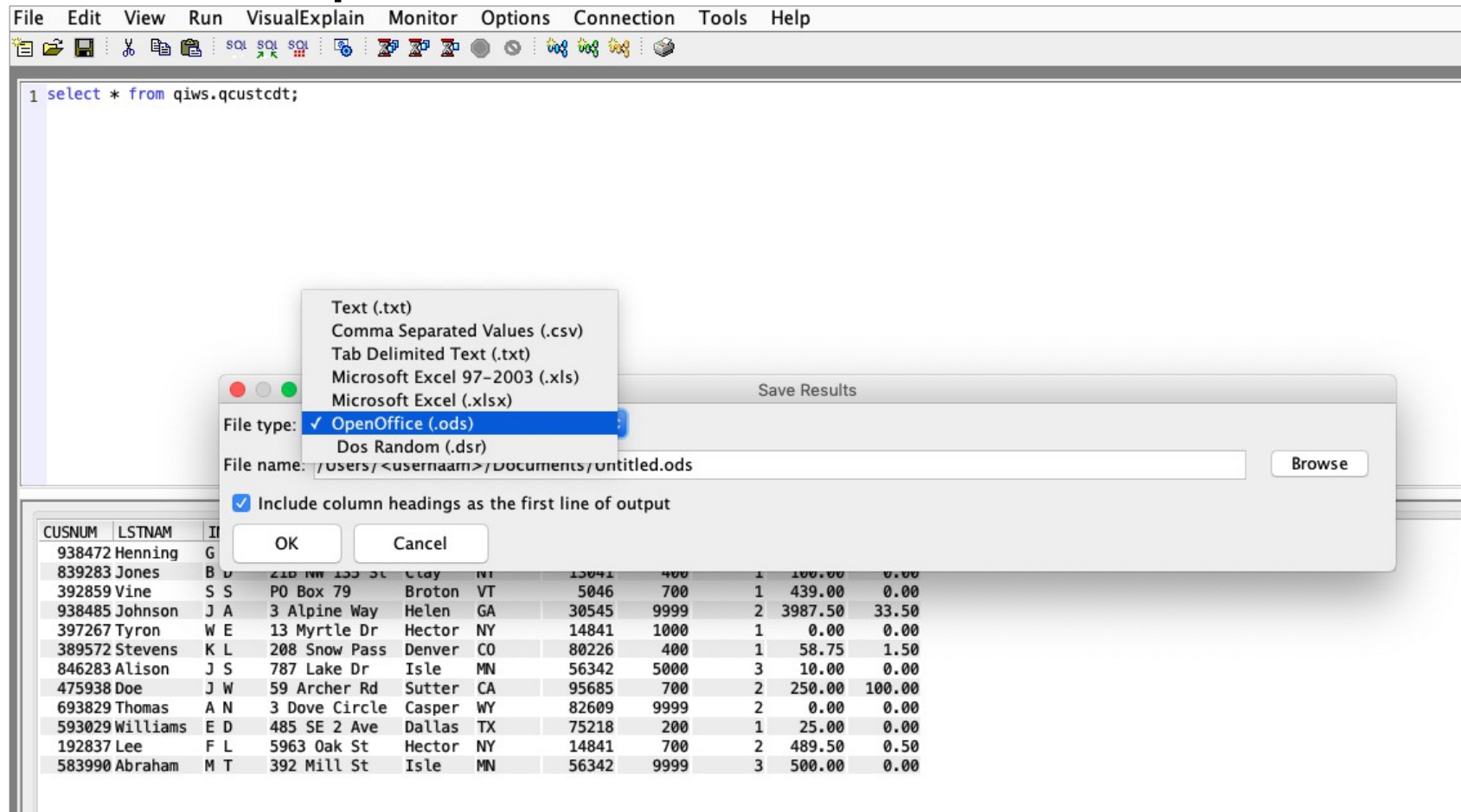


Run SQL Scripts – Earlier Enhancements





Run SQL Scripts – Earlier Enhancements





VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

File Edit View Run VisualExplain Monitor Options Connection Tools Help

SQL SQL SQL

```
1 select * from qiws.qcustcdt;
```

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	21B NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	PO Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	30545	0000	0	0000.00	00.00
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	14841				
389572	Stevens	K L	208 Snow Pass	Denver	CO	80221				
846283	Alison	J S	787 Lake Dr	Isle	MN	56341				
475938	Doe	J W	59 Archer Rd	Sutter	CA	95681				
693829	Thomas	A N	3 Dove Circle	Casper	WY	82601				
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	75211				
192837	Lee	F L	5963 Oak St	Hector	NY	14841				
583990	Abraham	M T	392 Mill St	Isle	MN	56341				

Inquiry Message

File has been saved successfully
Would you like to open it?

No Yes



Run SQL Scripts – Earlier Enhancements

File Edit View Run VisualExplain Monitor Options Connection Tools Help

1 select * from qiws.qcustcdt;

CUSNUM	LOTNUM	DATE	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938			Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839			W 135 St	Clay	NY	13041	400	1	100.00	0.00
392			Box 79	Broton	VT	5046	700	1	439.00	0.00
938			Pine Way	Helen	GA	30545	9999	2	3987.50	33.50
397			Myrtle Dr	Hector	NY	14841	1000	1	0.00	0.00
389			Snow Pass	Denver	CO	80226	400	1	58.75	1.50
846			Lake Dr	Isle	MN	56342	5000	3	10.00	0.00
475			Archer Rd	Sutter	CA	95685	700	2	250.00	100.00
693			Ve Circle	Casper	WY	82609	9999	2	0.00	0.00
593			SE 2 Ave	Dallas	TX	75218	200	1	25.00	0.00
192			Oak St	Hector	NY	14841	700	2	489.50	0.50
583			Mill St	Isle	MN	56342	9999	3	500.00	0.00

- Columns...
- Column Headings ▶
- Refresh
- Save Results...
- Upload Results...
- Copy %C
- Select All %A
- Print...



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

File Edit View Run VisualExplain Monitor Options Connection Tools Help

1 select * from qiws.qcustcdt;

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	21B NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	P0 Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	3				
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	1				
389572	Stevens	K L	208 Snow Pass	Denver	CO	8				
846283	Alison	J S	787 Lake Dr	Isle	MN	5				
475938	Doe	J W	59 Archer Rd	Sutter	CA	9				
693829	Thomas	A N	3 Dove Circle	Casper	WY	8				
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	7				
192837	Lee	F L	5963 Oak St	Hector	NY	1				
583990	Abraham	M T	392 Mill St	Isle	MN	5				

Inquiry Message

Destination table:
qrplibj/commanddemo

Cancel OK



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

The screenshot shows a software interface with a menu bar (File, Edit, View, Run, VisualExplain, Monitor, Options, Connection, Tools, Help) and a toolbar. The main window contains a SQL script editor with the text: `1 select * from qiws.qcustcdt;`

Below the editor is a table displaying the results of the SQL query. The table has 11 columns: CUSNUM, LSTNAM, INIT, STREET, CITY, STATE, ZIPCOD, CDTLMT, CHGCOD, BALDUE, and CDTDUE. The data is as follows:

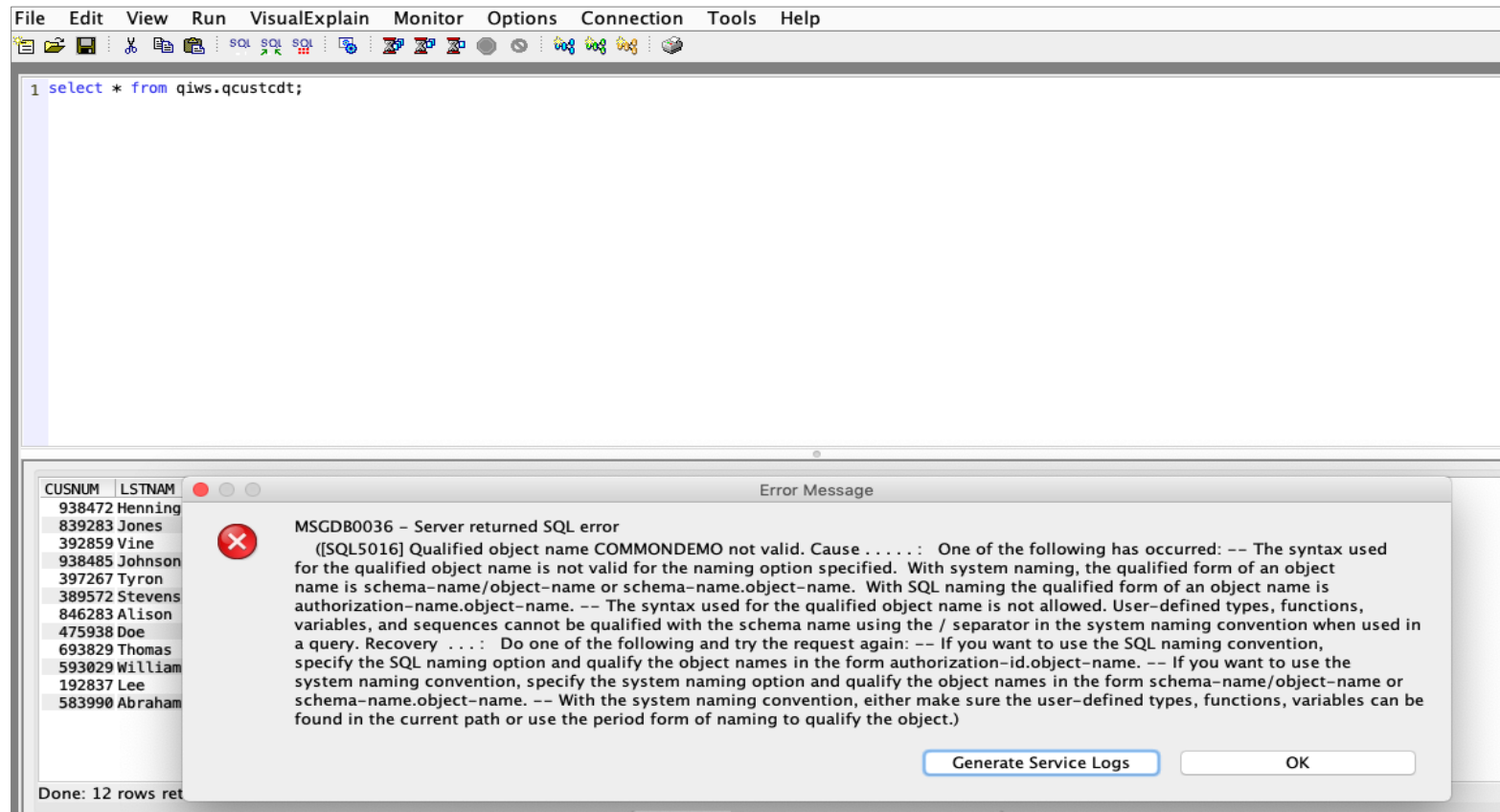
CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CTDDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	21B NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	P0 Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	30545	0000	0	0007.00	00.00
397267	Tyron	W E	13 Myrtle Dr	Hector	NY					
389572	Stevens	K L	208 Snow Pass	Denver	CO					
846283	Alison	J S	787 Lake Dr	Isle	MN					
475938	Doe	J W	59 Archer Rd	Sutter	CA					
693829	Thomas	A N	3 Dove Circle	Casper	WY					
593029	Williams	E D	485 SE 2 Ave	Dallas	TX					
192837	Lee	F L	5963 Oak St	Hector	NY					
583990	Abraham	M T	392 Mill St	Isle	MN					

An 'Inquiry Message' dialog box is overlaid on the table, asking: 'Do you want to replace the table, if it exists?'. The dialog has three buttons: 'Cancel', 'No', and 'Yes'.



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements





Run SQL Scripts – Earlier Enhancements

The screenshot shows a SQL client window with a menu bar (File, Edit, View, Run, Visual Explain, Monitor, Options, Connection, Tools, Help) and a toolbar. The main window displays a SQL query: `1 select * from qiws.qcustcdt;`. Below the query, a table of 12 rows is shown. An 'Inquiry Message' dialog box is open, asking for the 'Destination table:' with the text 'qrplib.commondemo' entered. The dialog has 'Cancel' and 'OK' buttons. At the bottom of the SQL client window, it says 'Done: 12 rows retrieved.'

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	218 NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	P0 Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	3				
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	1				
389572	Stevens	K L	208 Snow Pass	Denver	CO	8				
846283	Alison	J S	787 Lake Dr	Isle	MN	5				
475938	Doe	J W	59 Archer Rd	Sutter	CA	9				
693829	Thomas	A N	3 Dove Circle	Casper	WY	8				
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	7				
192837	Lee	F L	5963 Oak St	Hector	NY	1				
583990	Abraham	M T	392 Mill St	Isle	MN	5				



Run SQL Scripts – Earlier Enhancements

The screenshot shows a SQL client window with a menu bar (File, Edit, View, Run, Visual Explain, Monitor, Options, Connection, Tools, Help) and a toolbar. The main window displays a SQL query: `1 select * from qiws.qcustcdt;`. Below the query, a table of 12 rows is shown. An 'Inquiry Message' dialog box is open, asking for the 'Destination table:' with the text 'qrplib.commondemo' entered. The dialog has 'Cancel' and 'OK' buttons. At the bottom of the SQL client window, it says 'Done: 12 rows retrieved.'

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	218 NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	P0 Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	3				
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	1				
389572	Stevens	K L	208 Snow Pass	Denver	CO	8				
846283	Alison	J S	787 Lake Dr	Isle	MN	5				
475938	Doe	J W	59 Archer Rd	Sutter	CA	9				
693829	Thomas	A N	3 Dove Circle	Casper	WY	8				
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	7				
192837	Lee	F L	5963 Oak St	Hector	NY	1				
583990	Abraham	M T	392 Mill St	Isle	MN	5				



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

1 select * from qiws.qcustcdt;

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	21B NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	P0 Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	30515	0000	0	2007.50	22.50
397267	Tyron	W E	13 Myrtle Dr	Hector	NY					
389572	Stevens	K L	208 Snow Pass	Denver	CO					
846283	Alison	J S	787 Lake Dr	Isle	MN					
475938	Doe	J W	59 Archer Rd	Sutter	CA					
693829	Thomas	A N	3 Dove Circle	Casper	WY					
593029	Williams	E D	485 SE 2 Ave	Dallas	TX					
192837	Lee	F L	5963 Oak St	Hector	NY					
583990	Abraham	M T	392 Mill St	Isle	MN					

Done: 12 rows retrieved.

Informational Message
MSGGEN002 – The function completed successfully.
OK



VAN HELVOIRT AUTOMATISERING

Run SQL Scripts – Earlier Enhancements

1 select * from qiws.qcustcdt;

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
938472	Henning	G K	4859 Elm Ave	Dallas	TX	75217	5000	3	37.00	0.00
839283	Jones	B D	218 NW 135 St	Clay	NY	13041	400	1	100.00	0.00
392859	Vine	S S	PO Box 79	Broton	VT	5046	700	1	439.00	0.00
938485	Johnson	J A	3 Alpine Way	Helen	GA	30545	0000	0	0007.50	00.00
397267	Tyron	W E	13 Myrtle Dr	Hector	NY					
389572	Stevens	K L	208 Snow Pass	Denver	CO					
846283	Alison	J S	787 Lake Dr	Isle	MN					
475938	Doe	J W	59 Archer Rd	Sutter	CA					
693829	Thomas	A N	3 Dove Circle	Casper	WY					
593029	Williams	E D	485 SE 2 Ave	Dallas	TX					
192837	Lee	F L	5963 Oak St	Hector	NY					
583990	Abraham	M T	392 Mill St	Isle	MN					

Done: 12 rows retrieved.

Informational Message
MSGGEN002 – The function completed successfully.
OK



VAN HELVOIRT AUTOMATISERING

Questions?



VAN HELVOIRT AUTOMATISERING

Thanks