

RCLRSC

As400 basic concepts	11
Menu Driven AS400	01
SEU basic concepts	01
Array	01
Data structure	01
User Profile & Security	02
As400 Subsys. & Jobs	05
Compiler Directive	01
Data queue	01
FTP & Stream file	03
Journalling	01
Screen Design Aid	06
Display File Keywords	62
Subfile & Types of Subf	06
Help panel design	01
RPG specs	07
RPGLE op-codes	85
RPGLE Built-in Function	34
RPGLE concepts	04
Debugging-batch job	02
Setl Reade Chain Readc	03
RETURN v/s SETON LR	01
File/Program exceptions	01
Printer file concepts	04
CL basic concepts	03
CL programming	08
CL commands	12

广告 X

海外网络加速,
访问外网必备。

Previous (<https://www.go4as400.com/WRKQRY-QMORY-Query-management/as400-query.aspx?cid=621>)

QMORY

- QMORY stands for Query Management Query.
- We create an object of type *QMORY which contains SQL statement that is dynamic and can use this whenever we need dynamic SQL statement.
- The source member that holds the dynamic SQL statement is of source type QMORY.
- There can be only one SQL statement in a QMORY object.

Examples

I. QMORY to be called by CL program

✓ First of all create a source member of type QMORY as below.



Embedded Sql	13
QMQRY/WRKQRY	02

Work with Members Using PDM

UKFAI00

```
File . . . . . QRPGLSRC
Library . . . . . AMIT                               Position to . . . . .

Type options, press Enter.
2=Edit          3=Copy   4=Delete 5=Display      6=Print       7=Rename
8=Display description 9=Save  13=Change text 14=Compile 15=Create module...

Opt Member      Type           Text
QUERY_C5        QMQR          QMQUERY TO BE CALLED BY QUERYCL_C5      >>>>>>>>>>>>>>>>

Parameters or command
===>
F3=Exit          F4=Prompt          F5=Refresh         F6=Create
F9=Retrieve      F10=Command entry  F23=More options   F24=More keys
```

✓ The source code for the above source member of source type QMQRY is a

```
Columns . . . :      1  80                      Browse                      AMIT/QRPG
SEU==>                                                QUER
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+
***** Beginning of data *****
0001.00    &SEL  &FLD  &FR
0002.00    &FILE
0003.00    &WH
0004.00    &COMP &VAL
***** End of data *****
```

```
✓ CRTQMORY QMORY (AMIT/QUERYC C5) SRCFILE (AMIT/QRPGLESRC) SRCMBR (QUERYC C5)
```



```

Columns . . . :    1  80                                Edit                                AMIT/QR
SEU==>                                                QUER
FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+
***** Beginning of data *****
0001.00 PGM
0002.00          DCL          VAR(&SEL_Q) TYPE(*CHAR) LEN(8) VALUE(SELECT)
0003.00          DCL          VAR(&FLD_Q) TYPE(*CHAR) LEN(30) +
0004.00          VALUE('ORG, ACC, CCY, PARTY, ACCSTS')
0005.00          DCL          VAR(&FR_Q) TYPE(*CHAR) LEN(10) VALUE('FROM')
0007.00          DCL          VAR(&FILE_Q) TYPE(*CHAR) LEN(10) +
0008.00          VALUE('ACCOUNT')
0009.00          DCL          VAR(&WH_Q) TYPE(*CHAR) LEN(7) VALUE('WHERE')
0010.00          DCL          VAR(&COMP_Q) TYPE(*CHAR) LEN(6) VALUE('PARTY=')
0011.00          DCL          VAR(&VAL_Q) TYPE(*CHAR) LEN(15) +
0012.00          VALUE(''P00000000002'')
0013.00          MONMSG MSGID(CPF0000) EXEC(GOTO  ERROR)
0014.00 /* _____ */
0015.00
0016.00          STRQMQR    QMQR(AMIT/QUERIC_C5) SETVAR((SEL &SEL_Q) +
0017.00          (FLD &FLD_Q) (FR &FR_Q) +
0018.00          (FILE &FILE_Q) (WH &WH_Q) (COMP &COMP_Q) +
0019.00          (VAL &VAL_Q))
0020.00          GOTO        CMDLBL(END)
0005.00          DCL          VAR(&FR_Q) TYPE(*CHAR) LEN(10) VALUE('FROM')
0007.00          DCL          VAR(&FILE_Q) TYPE(*CHAR) LEN(10) +
0008.00          VALUE('ACCOUNT')
0009.00          DCL          VAR(&WH_Q) TYPE(*CHAR) LEN(7) VALUE('WHERE')
0010.00          DCL          VAR(&COMP_Q) TYPE(*CHAR) LEN(6) VALUE('PARTY=')
0011.00          DCL          VAR(&VAL_Q) TYPE(*CHAR) LEN(15) +
0012.00          VALUE(''P00000000002'')
0013.00          MONMSG MSGID(CPF0000) EXEC(GOTO  ERROR)
0014.00 /* _____ */
0015.00
0016.00          STRQMQR    QMQR(AMIT/QUERIC_C5) SETVAR((SEL &SEL_Q) +
0017.00          (FLD &FLD_Q) (FR &FR_Q) +
0018.00          (FILE &FILE_Q) (WH &WH_Q) (COMP &COMP_Q) +
0019.00          (VAL &VAL_Q))
0020.00          GOTO        CMDLBL(END)
0021.00 ERROR:
0022.00          SNDUSRMSG  MSG('SOME ERROR IN CALLING THE QMQUERY')
0023.00 END:
0024.00 ENDPGM
***** End of data *****

```

✓ Compile and run the program to see the output below:

OUTPUT



```

                                Display Report

Query . . . . .:  AMIT/QUERY_C5           Width . . . .:    123
Form . . . . .:  *SYSDFT                 Column . . .:     1
Control . . . .
Line  ....+....1....+....2....+....3....+....4....+....5....+....6
ORG CODE  ACC NUMBER  CURRENCY  PARTY NUM  A/C STS
-----
000001    190        100000000002  EUR      P000000000002    2
000002    190        100000000003  USD      P000000000002    2
*****  * * * * *  E N D   O F   D A T A  * * * * *

```

II. To run QMORY from command line

The above created query QUERY_C5 can also be run from the command line below:

```
STRQMORY QUERY_C5
```

```
PRESS ENTER;
```

After we press Enter, it will ask for the value of each variable that is in the statement.

Enter the value for each variable that is there in the QMORY source code



Display Program Messages

Job 690848/AJAISWAL/SB started on 13/02/13 at 06:09:30 in subsystem QINTER i

Type a value for variable "SEL" and press Enter.

```

SELECT                                >>>>>>>>>> SEL = SELECT
Type a value for variable "FLD" and press Enter.
ORG, ACC, CCY, PARTY, ACCSTS          >>>>>>>>>> FLD = ORG, ACC, CCY
Type a value for variable "FR" and press Enter.
FROM                                   >>>>>>>>>> FR = FROM
Type a value for variable "FILE" and press Enter.
ACCOUNT                               >>>>>>>>>> FILE = ACCOUNT
Type a value for variable "WH" and press Enter.
WHERE                                 >>>>>>>>>> WH = WHERE
Type a value for variable "COMP" and press Enter.
PARTY=                                >>>>>>>>>> COMP = PARTY
Type a value for variable "VAL" and press Enter.
'P000000000002'                      >>>>>>>>>> VAL = 'P00000000002'

```

Type reply, press Enter.

Reply . . . _____

F3=Exit F12=Cancel

OUTPUT

Display Report

```

Query . . . . .: AMIT/QUERYC_C5                               Width . . .: 123
Form . . . . .: *SYSDFT                                         Column . .: 1
Control . . . .
Line . . . . .1. . . . .2. . . . .3. . . . .4. . . . .5. . . . .6.
ORG CODE  ACC NUMBER      CURRENCY  PARTY NUM      A/C STS
-----
000001      190    1000000000002  EUR      P000000000002      2
000002      190    1000000000003  USD      P000000000002      2
***** * * * * * E N D   O F   D A T A * * * * *

```

III. To run Static QMQRy from command line



Your Website is Not 100% Visible

```

Columns . . . :      1  80                               Browse                               AMIT/Q
SEU==>                                                QU
FMT **   ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+
***** Beginning of data *****
0001.00 SELECT ORG, ACC, CCY, ACCSTS FROM ACCOUNT
0002.00 WHERE RRN(ACCOUNT) IN
0003.00 (SELECT RRN(ACCOUNT) FROM ACCOUNT
0004.00 WHERE PARTY = 'P000000000002')
***** End of data *****

```

Compile the source code and then start the query.

```

CRTQMORY QMORY(AMIT/QUERYCCCC) SRCFILE(AMIT/QRPGLESRC) SRCMBR(QUERYCCCC)
STRQMORY QMORY(AMIT/QUERYCCCC)

```

OUTPUT

```

                                Display Report

Query . . . . .:  AMIT/QUERYCCCC                               Width . . . :    123
Form . . . . .:  *SYSDFT                                       Column . . :     1
Control . . . .
Line   ...+...1...+...2...+...3...+...4...+...5...+...6
ORG CODE  ACC NUMBER    CURRENCY  PARTY NUM    A/C STS
-----  -
000001      190      100000000002  EUR      P000000000002      2
000002      190      100000000003  USD      P000000000002      2
*****  * * * * *  E N D   O F   D A T A  * * * * *

```

IV. Use *QRYDEF object to make *QMORY type object

Type **WRKQRY** on command line and press **ENTER**.



Work with Queries

Type choices, press Enter.

Option	1	1=Create, 2=Change, 3=Copy, 4=Delete
		5=Display, 6=Print definition
		8=Run in batch, 9=Run
Query	QUERY001	Name, F4 for list
Library	AMIT	Name, *LIBL, F4 for list

F3=Exit F4=Prompt F5=Refresh F12=Cancel
(C) COPYRIGHT IBM CORP. 1988

Specify File Selections

Type choices, press Enter. Press F9 to specify an additional file selection.

File	ACCOUNT	Name, F4 for list
Library	AMIT	Name, *LIBL, F4 for list
Member	*FIRST	Name, *FIRST, F4 for list
Format	*FIRST	Name, *FIRST, F4 for list

F3=Exit F4=Prompt F5=Report F9=Add file
F12=Cancel F13=Layout F24=More keys



Select and Sequence Fields

Type sequence number (0-9999) for the names of up to 500 fields to appear in the report, press Enter.

Seq	Field
1	ORG
2	ACC
3	CCY
4	PARTY
5	ACCSTS
	ENTSTS
	VERSTS
	AUTSTS
	RECSTS
	TIMESTP

Bottom

F3=Exit
F13=Layout

F5=Report
F20=Renummer

F11=Display text
F21=Select all

F12=Cancel
F24=More keys

Define the Query

Query :	QUERY001	Option :	CHANGE
Library :	AMIT	CCSID :	65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt	Query Definition Option
>	Specify file selections
	Define result fields
>	Select and sequence fields
>	Select records
	Select sort fields
	Select collating sequence
	Specify report column formatting
	Select report summary functions
	Define report breaks
	Select output type and output form
	Specify processing options

F3=Exit

F5=Report

F13=Layout

F18=Files

F21=Select all

Select options, or press F3 to save or run the query.



Display Report

```

Query . . . :  AMIT/QUERY001
Position to line . . . . .
Line  ....+....1....+....2....+....3....+....4....+
ORG CODE  ACC NUMBER    CURRENCY  PARTY NUM    A/C STS
-----
000001      190    100000000002  EUR        P00000000002    2
000002      190    100000000003  USD        P00000000002    2
*****  * * * * *  E N D   O F   D A T A  * * * * *

```

Work with Objects

Type options, press Enter.

2=Edit authority 3=Copy 4=Delete 5=Display authority 7=Rename
8=Display description 13=Change description

Opt	Object	Type	Library	Attribute	Text
	QUERY001	*QRYDFN	AMIT	QRY	

Bottom

Parameters for options 5, 7 and 13 or command

==>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=Display names and types
F12=Cancel F16=Repeat position to F17=Position to

```

==> RTVQMQRy QMQRy (AMIT/QUERY001) SRCFILE (AMIT/QRPGLESRC) SRCMBR (RETRI

```

```

Columns . . . :  1  80
SEU==>
FMT **  ....+... 1 ....+... 2 ....+... 3 ....+... 4 ....+... 5 ....+... 6 ....+... 7 ....+
***** Beginning of data *****
0001.00 H QM4 05 Q 01 E V W E R 01 03 13/13/02 07:21
0002.00 V 1001 050
0003.00 V 5001 004 *HEX
0004.00 SELECT
0005.00 ALL      ORG, ACC, CCY, PARTY, ACCSTS
0006.00 FROM     AMIT/ACCOUNT T01
0007.00 WHERE    PARTY = 'P00000000002'
***** End of data *****

```



>>>> Here you need to decide which part you want to make as dynamic and the variable name and pass the value in that variable in CL program as example.

V. Save the output of QMQR in *OUTFILE

QMQR source

```
Columns . . . :    1  80                                Browse                AMIT/QRPG
SEU==>                                                QUER
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+
***** Beginning of data *****
0001.00    &SEL  &FLD  &FR
0002.00    &FILE
0003.00    &WH
0004.00    &COMP &VAL
***** End of data *****
```

CL program saving the output of QMQR in a file OUTFILE001

```
Columns . . . :    1  80                                Edit                AMIT/QR
SEU==>                                                QUE
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+
***** Beginning of data *****
0001.00 PGM
0002.00          DCL          VAR(&SEL_Q) TYPE(*CHAR) LEN(8) VALUE(SELECT)
0003.00          DCL          VAR(&FLD_Q) TYPE(*CHAR) LEN(30) +
0004.00          VALUE('ORG, ACC, CCY, PARTY, ACCSTS')
0005.00          DCL          VAR(&FR_Q) TYPE(*CHAR) LEN(10) VALUE('FROM')
0006.00          DCL          VAR(&FILE_Q) TYPE(*CHAR) LEN(10) +
0007.00          VALUE('ACCOUNT')
0008.00          DCL          VAR(&WH_Q) TYPE(*CHAR) LEN(7) VALUE('WHERE')
0009.00          DCL          VAR(&COMP_Q) TYPE(*CHAR) LEN(6) VALUE('PARTY=')
0010.00          DCL          VAR(&VAL_Q) TYPE(*CHAR) LEN(15) +
0011.00          VALUE(''P00000000002'')
0012.00          MONMSG MSGID(CPF0000) EXEC(GOTO ERROR)
0013.00 /* _____ */
0014.00
0015.00          STRQMQR      QMQR(AMIT/QUERIC_C5) OUTPUT(*OUTFILE) +
0016.00          OUTFILE(AMIT/OUTFILE001) OUTMBR(*FIRST +
0017.00          *ADD) SETVAR((SEL &SEL_Q) (FLD &FLD_Q) +
0018.00          (FR &FR_Q) (FILE &FILE_Q) (WH &WH_Q) +
0019.00          (COMP &COMP_Q) (VAL &VAL_Q))
0020.00          GOTO          CMDLBL(END)
0021.00 ERROR:
0022.00          SNDUSRMSG  MSG('SOME ERROR IN CALLING THE QMQUERY')
0023.00 END:
```



>>>> RUNQRY *N OUTFILE001

Display Report

Position to line					Report width
					Shift to column .
Line+....1....+....2....+....3....+....4....+....5....+				
ORG CODE	ACC NUMBER	CURRENCY	PARTY NUM	A/C	STS
000001	190	100000000002	EUR	P00000000002	2
000002	190	100000000003	USD	P00000000002	2
***** ***** End of report *****					

****NOTE**

RUNSQLSTM can run many statements (using ';' between each one) but cannot use parameters.

STRQMORY can run only one statement but can use parameter.

Follow @go4as4oo (https://twitter.com/go4as4oo?ref_src=twsrc%5Etfw)

Previous (<https://www.go4as400.com/WRKQRY-QMORY-Query-management/as400-query.aspx?cid=621>)


USER COMMENTS:

SITE LINKS

 [HOME \(/DEFAULT.ASPX\)](/DEFAULT.ASPX)

 [AS400 CHAPTERS \(/CONTENT.ASPX\)](/CONTENT.ASPX)





 [AS400 FAQ \(/AS400-INTERVIEW-QUESTIONS-AND-ANSWERS/FAQ.ASPX?FID=1\)](/AS400-INTERVIEW-QUESTIONS-AND-ANSWERS/FAQ.ASPX?FID=1)

 [AS400 E-BOOKS \(/AS400-EBOOK/EBOOK.ASPX\)](/AS400-EBOOK/EBOOK.ASPX)

 [CONTACT \(/CONTACTUS.ASPX\)](/CONTACTUS.ASPX)

SUBSCRIBE

 **Email:**

 **Share**  (<https://www.facebook.com/sharer.php?u=https://www.go4as400.com/WRKORY-QMORY-Query.aspx?cid=622>)  (<https://twitter.com/home?status=Currently reading https://www.go4as400.com/Wfmanagement/as400-query.aspx?cid=622>)  ([https://www.linkedin.com/shareArticle?mini=true&url=https://www.go4as400.com/WRKORY-Query-management/as400-query.aspx?cid=622](https://www.linkedin.com/shareArticle?mini=true&url=https://www.go4as400.com/WRKORY-QMORY-Query-management/as400-query.aspx?cid=622) + & title=QMORY-Query management in as400-go4as400.com

Copyright © www.go4as400.com, 2013-2020. [Copyright notice \(/copyright.aspx\)](/copyright.aspx)





Your Website is Not
100% Visible