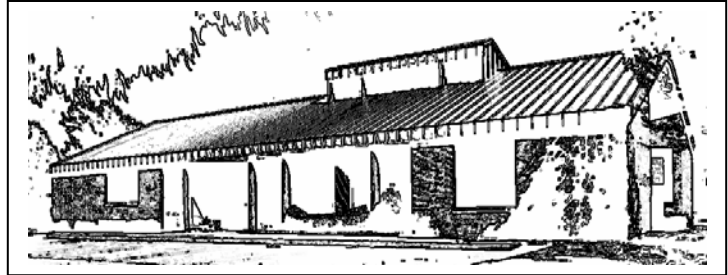


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"Providing Data Processing Solutions since 1975"

There are two types of queries that can be preformed on the AS/400.

This is a sample of an AS/400 based query:

To start, key in:

WRKQRY

```
                                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 . . . . .          Name, F4 for list
Library . . . . .      QRYLIBNJ     Name, *LIBL, F4 for list
```

To create a new query, take option 1

If you have a special query library set up, key it in the library option.

The Define a Query screen is displayed.

```

                                Define the Query

Query . . . . . :                Option . . . . . :  CREATE
  Library . . . . :      QRYLIBNJ  CCSID . . . . . :  65535

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

Opt   Query Definition Option
  1   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          F12=Cancel
F13=Layout       F18=Files          F21=Select all
```

The first option, Specify file selections, is used to define the file you wish to query.

```

                                Specify File Selections

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

File . . . . . member          Name, F4 for list
  Library . . . . . QS36F      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
```

Key in the file name. The library is almost always qs36f.

If you want to combine files, key F9 to add file.

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

File . . . . . MEMBER          Name, F4 for list
Library . . . . . QS36F        Name, *LIBL, F4 for list
Member . . . . . *FIRST        Name, *FIRST, F4 for list
Format . . . . . MEMBR         Name, *FIRST, F4 for list
File ID . . . . . T01          A-Z99, *ID

File . . . . . memberx         Name, F4 for list
Library . . . . . QS36F        Name, *LIBL, F4 for list
Member . . . . . *FIRST        Name, *FIRST, F4 for list
Format . . . . . *FIRST        Name, *FIRST, F4 for list
File ID . . . . . *ID          A-Z99, *ID
```

If multiple files are selected, you will need to key the type of join, take option 1 for matched records.

```
Specify Type of Join

Type choice, press Enter.

Type of join . . . . . 1      1=Matched records
                               2=Matched records with primary file
                               3=Unmatched records with primary file
```

Specify the fields to join, in this case we are using the member number.

Specify How to Join Files

Type comparisons to show how file selections are related, press Ente

Tests: EQ, NE, LE, GE, LT, GT

Field	Test	Field
T01.MBMEMB	EQ	T02.MXMEMB

Field	Text
T02.MXMEMB	MEMBER
T02.MXCTYP	CONTRACT TYPE
T02.MXTRW#	TRW SUBS #
T02.MXUAIP	UAI PASSWORD
T02.MXPASS	PASSWORD

The field names are displayed at the lower part of the screen, to roll through them place your cursor down and page up and down.

```
Opt   Query Definition Option
      > Specify file selections
      Define result fields
1     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
```

To select the fields to display or print, key a 1 in front of 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	Text	Len
	T01.MBDEL	DELETE	1
1	T01.MBMEMB	MEMBER	5
2	T01.MBCAT	CATEGORY-BUSINESS	4
3	T01.MBNAME	MEMB NANE	30
4	T01.MBATTN	MEMB ATTN	30
	T01.MBADD1	MEMB ADDRESS	30
	T01.MBCITY	MEMB CITY	25
	T01.MBZIP	MEMBER ZIP	9
	T01.MBPHN	MEMB PHONE	10
	T01.MBCOLU	COLL USER	1
	T01.MBCALL	CALL CODE	1
	T01.MBCORC	COLL RATE CD	1

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

Seq	Field	Text	Len
	T02.MXEQF#	EQUIFAX SUB#	10
	T02.MXKFD1	FACTUAL DATA# 1	5
10	T02.MXFAX	COMP FAX	11
	T02.MXFGRP	FAX GROUPS	1
	T02.MXFIL3	FILLER	1
	T02.MXATNT	ATTENTION TITLE	30
	T02.MX3REP	REP 3	30
	T02.MXEXT	PHONE EXT	4
	T02.MXAKA	AKA/DBA	30
	T02.MXPREM	X=PREMIER	1
	T02.MXBUST	BUSINESS TYPE	1
	T02.MXSLSM	SALESMAN	2

Key in a number in front of the fields to select, this will determine the order they will display. For this display I selected member number, name, business category, attention, and fax number.

```

Opt    Query Definition Option
      > Specify file selections
        Define result fields
      > Select and sequence fields
1     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

```

To filter out selected records, key a 1 in front of select records.

```

                                Select Records

Type comparisons, press Enter.  Specify OR to start each new group.
Tests:  EQ, NE, LE, GE, LT, GT, RANGE, LIST, LIKE, IS, ISNOT...

AND/OR  Field                Test   Value (Field, Number, 'Characters', or ..
        T01.MBTYPE          EQ     'R'
AND     T01.MBTYPE          EQ     'A'

Field                Text                                Len
T01.MBRSRE           RESIGN REASON                          1
T01.MBRSFL           RESIGN FLAG                             1
T01.MBTYPE           MEMB TYPE                               1
T01.MBBFRQ           MEMB BILL FREQ                          1
T01.MBBRMM           MEMB RENEW MONTH                         2

```

This selection is for regular and associate members.

```

Opt   Query Definition Option
      > Specify file selections
      Define result fields
      > Select and sequence fields
      > Select records
1     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

```

To sort the data, key a 1 in front of sort.

Type sort priority (0-999) and A (Ascending) or D (Descending) for the names of up to 32 fields, press Enter.

```

Sort
Prty A/D  Field                Text
          T01.MBMEMB         MEMBER
          T01.MBCAT         CATEGORY-BUSINESS
1   A     T01.MBNAME         MEMB NANE
          T01.MBATTN        MEMB ATTN
          T02.MXFAX         COMP FAX

```

Then select the field(s) you wish to sort and how you want it sorted

```

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
1        Select output type and output form
           Specify processing options

```

The default option is a screen display, but you can change the output type to printer or a file.

```

                          Select Output Type and Output Form

Type choices, press Enter.

Output type . . . . . 1      1=Display
                               2=Printer
                               3=Database file

Form of output . . . . . 1    1=Detail
                               2=Summary only

Line wrapping . . . . . N    Y=Yes, N=No
  Wrapping width . . . . .   Blank, 1-378
  Record on one page . . . . . N  Y=Yes, N=No

```


When you are ready to execute the query, take F3.

Type choices, press Enter.

```
Save definition . . . . . Y           Y=Yes, N=No
Run option . . . . . 1             1=Run interactively
                                   2=Run in batch
                                   3=Do not run

For a saved definition:
Query . . . . . sample1           Name
Library . . . . . QRYLIBNJ       Name, F4 for list

Text . . . . .

Authority . . . . . *LIBCRTAUT    *LIBCRTAUT, authorization list name,
                                   *CHANGE, *ALL, *EXCLUDE, *USE
```

If save definition is Y, key in a name for the query.

```
MEMBER    BUSN CATEGORY  MEMB NAME                MEMB ATTN
MXFAX
***** ***** End of report *****
```

Hmm, no data.

Type choices, press Enter.

```
Option . . . . . 2             1=Create, 2=Change, 3=Copy, 4=Delete
                                   5=Display, 6=Print definition
                                   8=Run in batch, 9=Run
Query . . . . . SAMPLE1       Name, F4 for list
Library . . . . . QRYLIBNJ    Name, *LIBL, F4 for list
```

I'll call it back up to see what I did wrong...

```
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  
1 > 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
```

Items previously selected are coded with an >

I'll check the select records...

```
Type comparisons, press Enter. Specify OR to start each new group.  
Tests: EQ, NE, LE, GE, LT, GT, RANGE, LIST, LIKE, IS, ISNOT...  
  
AND/OR  Field                Test  Value (Field, Number, 'Characters', or ...)  
        T01.MBTYPE          EQ    'R'  
AND     T01.MBTYPE          EQ    'A'
```

The member type can't be R **AND** A can it? That would be impossible...

I'll change it to **OR**

```
OR     T01.MBTYPE          EQ    'R'  
        T01.MBTYPE          EQ    'A'
```

And F3 run again...

2,469	MISC	A & A BLDG MATERIALS CO	JUDY TUCKER	6,264,465,670
1,001	CONC	A & A CONCRETE SUPPLY	RENEE TORALEZ	9,167,330,455
1,614	TOGM	A & A PLUSH INC	STELLA CHO	3,106,310,865
1,005	FDDS	A & B PRODUCE INC	KIM PIZZO	6,505,836,544

To create a library for your queries, key:

CRTLIB XXXXXXXXX

Where the X's are what you want your library to be named.