Advantage™ VISION:Report® Interface to DB2® for z/OS™

Installation Guide

16.1

Computer Associates®

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Contents

Chapter 1

Installing VISION:Report Interface to DB2

Advantage™ VISION:Report® Interface to DB2® is an integrated facility that allows the use of embedded SQL requests in VISION:Report programs. This interface extends the reporting and data manipulation capabilities of VISION:Report to DB2 databases and tables.

Notes:

- The terms z/OS™, OS/390®, and MVS® are used interchangeably throughout the Release 16.1 documentation.
- Advantage VISION:Report for z/OS will be referred to as VISION:Report.
- Advantage VISION:Report Interface to DB2 for z/OS will be referred to as VISION:Report Interface to DB2. VISION:Report Interface to DB2 was previously known as VISION:Interface for DB2 with VISION:Report.
- The terms DB2 and SQL/DS™ are used interchangeably throughout the Release 16.1 documentation. In general, the term DB2 is used in reference with z/OS and the term SQL/DS is used in reference with VSE.

Care has been taken to ensure that the z/OS and VSE versions of VISION:Report Interface to DB2 are compatible. However, there are certain SQL commands that are unique to a particular operating system.

New Features

Release 16.1 of Advantage VISION:Report Interface to DB2 for z/OS features:

- Support for IBM® DB2 Versions 6 and 7
- Additional CALL command parameters to access to stored SQL procedures
- Access to IMS Attach, TSO Attach, and CALL Attach by using JCL appropriate to the Attach Facility

For additional information, see the *Advantage VISION:Report Interface to DB2 Reference Guide*.

Preparing to Install

Prior to installing VISION:Report Interface to DB2:

1 Verify that VISION:Report is installed.

2 Verify that your installation is licensed for VISION:Report Interface to DB2.

3 Verify that you have the:

- VISION:Report installation control library (CNTLLIB) from File 1 of the installation tape.
- VISION:Report Interface to DB2 sample library (DB2SAMP) from File 4 of the installation tape.

4 Obtain DB2 authorization. See the section Obtaining DB2 Authorization in this chapter.

5 Specify the number of cursors. See the section Specifying the Number of Cursors in this chapter.

6 Customize the QJOPTION macro in the control library (CNTLLIB) member QJOPTDB2. See the section Customizing the QJOPTION Macro in Member QJOPTDB2 in this chapter.

Verifying the libraries

When you initially install VISION:Report, one of the job steps creates and loads the VISION:Report control library (CNTLLIB). Another job step optionally creates and loads the VISION:Report Interface to DB2 sample library (DB2SAMP). If you have not downloaded this library, do so now.

Control library (CNTLLIB)

The control library (CNTLLIB) contains the member QJOPTDB2 that you will use to customize the QJOPTION macro.

DB2 Sample Library (DB2SAMP)

The DB2 sample library (DB2SAMP) contains the VISION:Report Interface to DB2 installation JCL, such as CNTLPREP and CNTLINST, as well as test members (sample programs).

Customize the installation JCL to your installation requirements. In particular, the various data set names (DSN=) should match the data set names given to your DB2 libraries, and VISION:Report object and load libraries, as well as the plan member name (QUIKJOB).

There are also several test members (sample programs) in the DB2 sample library. Review the contents of the member @SQLINDX, which contains a brief description of each test member. Use these test members to verify that the installation of VISION:Report Interface to DB2 was successful.

Obtaining DB2 Authorization

Before beginning the installation of VISION:Report Interface to DB2, the database administrator for your site must authorize your use of DB2. VISION:Report Interface to DB2 uses an installed plan (refer to the IBM DB2 Reference Guide for a detailed description of a DB2 plan) that is linked to the supplied interface modules. This plan must be added to the DB2 plan library using the BIND command. It is then used by the interface to access DB2. In the following two sections, the GRANT statements use the DB2 plan name QUIKJOB.

BIND Authority

To install the plan, the user submitting the VISION:Report Interface to DB2 installation job (as identified on the USER parameter of the JOB card) must have BIND authority on the DB2 plan name QUIKJOB. This can be achieved by issuing the following DB2 command under SPUFI:

```
GRANT BIND ON PLAN QUIKJOB TO username;
```

EXECUTE Authority

In addition, EXECUTE authority must be granted to anyone wanting to use VISION:Report Interface to DB2. Specific EXECUTE grants can be made with the following DB2 command from SPUFI:

```
GRANT EXECUTE ON PLAN QUIKJOB TO username;
```

If everyone at your installation needs this authority, issue the following SQL command under SPUFI:

```
GRANT EXECUTE ON PLAN QUIKJOB TO PUBLIC;
```

EXECUTE authority on QUIKJOB allows you to run VISION:Report Interface to DB2. It does not permit access to any DB2 object (tables, columns, views, databases, etc.) that has not been explicitly granted to a particular user.

Specifying the Number of Cursors

VISION:Report Interface to DB2 is linked with a CSECT table. This table contains all the information needed from the DB2 preprocessing of the output for the PRESQL macro, as described further in the section Comparing QJOPTION and PRESQL in this chapter.

For each possible cursor, approximately 20 bytes are added to the CSECT. You can generate the CSECT with entries from 1 to 999 cursors in the CNTLPREP member, as described in the section Installing VISION:Report Interface to DB2 in this guide.

Customizing the QJOPTION Macro in Member QJOPTDB2

When you run VISION:Report and VISION:Report Interface to DB2, note the following keywords prior to assembling the QJOPTION macro. You can find the QJOPTION macro in the VISION:Report contol library CNTLLIB member QJOPTDB2.

Keywords	Description
SQLA1-SQLA5	For information on the OPTION verb, see the *Advantage VISION:Report Advantage VISION:Forms Reference Guide*.
SQLPLNM	DB2 plan name. ■ This keyword could be omitted, in which case the PLAN keyword in the PRESQL macro or OPTION statement can be used to override the value. ■ This field is 1 to 8 characters long and has a default of ********.
SQLSYSN	DB2 system or subsystem name. ■ This keyword could be omitted, in which case the SYSTEM keyword in the PRESQL macro or OPTION statement can be used to override the value. ■ This field is 1-4 characters long and has a default of ****. See the section Comparing QJOPTION and PRESQL in this guide.

QJOPTDB2

Review the QJOPTION parameters in the QJOPTDB2 member carefully prior to running the VISION:Report Interface to DB2 install jobs.

```
                    *** PROGRAM QJOPTDB2 ***

*****************************************************************
*                                                               *
* THIS PROGRAM CONTAINS THE RECOMMENDED VALUES FOR QJOPTION IF  *
* YOU ARE LICENSED TO USE OUR OPTIONAL FEATURE,                 *
* ADVANTAGE VISION:REPORT INTERFACE TO DB2.                     *
* PLEASE VERIFY AND IF NECESSARY CHANGE                         *
* PARAMETERS SQLA1-5, SQLPLNM, SQLSYSN, AND SQLVER.             *
*                                                               *
* P-L-E-A-S-E  READ OVER CAREFULLY.                             *
*                                                               *
* ====>  THE PRODCOD PARAMTER IS NO LONGER NEEDED.   <====      *
*                                                               *
* THE RECOMMENDED VALUES THAT ARE DIFFERENT FROM THE DEFAULTS   *
* ARE SHOWN WITH A PLUS (+) IN FRONT OF THE COMMENT.            *
*                                                               *
* NEW RECOMMENDED VALUES, FOR THIS RELEASE, ARE SHOWN WITH      *
* A VERTICAL BAR (|) IN FRONT OF THE COMMENT.                   *
*                                                               *
* NOTE:  1) A NON-BLANK CHARACTER IN POSITION 72 SIGNIFIES A    *
*           CONTINUATION STATEMENT ONTO THE NEXT LINE, WHICH    *
*           MUST START IN POSITION 16.                          *
*                                                               *
*        2) THE FOLLOWING PARAMETERS ARE NO LONGER NEEDED,      *
*           ALTHOUGH THEY CAN BE LEFT IN FOR COMPATIBILITY:     *
*                                                               *
*           #EQU, CALLCT, CALLSZ, GENSIZE, LITSIZE,             *
*           SORTMAX, SORTMIN, STMTS                             *
*                                                               *
*                                                               *
*****************************************************************
*
         QJOPTION           ,       MVS SAMPLE                        *
               BWZ=NO,              BLANK WHEN ZERO                   *
               CALLCT=10,         + NUMBER OF CALL ROUTINES ALLOWED   *
               CALLSZ=25,         + NUMBER OF CALLING PARAMETERS      *
               CFLEOPT=NO,          FILE TOTALS ON CONSOLE            *
               CLRVIP=YES,        + CLEAR INPUT AREA BEFORE READ      *
               CLRVOP=YES,        + CLEAR OUTPUT AREA BEFORE WRITING  *
               CRSIGN=NO,           CREDIT SIGN                       *
               DELUPGM=NO,        + DELETE PROGRAM WHEN NOT IN USE    *
               DETDD=SYSDET,                                          *
               EDIT=NO,                                               *
               EDITALL=NO,         EDIT MASKS FOR ALL, NOT JUST PRT   *
               EDTNAME=QUIKEMSK,                                      *
               EUROPTN=NO,                                            *
               EXPMLOG=NO,          EXPIRATION MESSAGE ON CONSOLE     *
               EXPMLST=YES,         EXPIRATION MESSAGE ON PRINTER     *
               HDRDOTS=YES,                                           *
               IFNUM=NO,          NUMERIC COMPARE BET. UNLIKE DATATYPE *
               INADD=SYSINA,                                          *
               INBDD=SYSINB,                                          *
               INCDD=SYSINC,                                          *
               INDD=SYSIN,                                            *
               INDDD=SYSIND,                                          *
               INEDD=SYSINE,                                          *
               INFDD=SYSUT1,                                          *
               INGDD=SYSING,                                          *
```

```
INHDD=SYSINH,                                                  *
INIDD=SYSINI,                                                  *
INJDD=SYSINJ,                                                  *
INKDD=SYSINK,                                                  *
INLDD=SYSINL,                                                  *
INMDD=SYSINM,                                                  *
INNDD=SYSINN,                                                  *
INODD=SYSINO,                                                  *
INPDD=SYSINP,                                                  *
INQDD=SYSINQ,                                                  *
INRDD=SYSINR,                                                  *
INSDD=SYSINS,                                                  *
INTDD=SYSINT,                                                  *
INUDD=SYSINU,                                                  *
INVDD=SYSINV,                                                  *
INWDD=SYSINW,                                                  *
INXDD=SYSINX,                                                  *
INYDD=SYSINY,                                                  *
INZDD=SYSINZ,                                                  *
LIST=YES,                                                      *
LISTABL=NO,                                                    *
LISTOPT=NO,          'YES'  FOR DEBUGGING                      *
MSGROLL=YES,                                                   *
MOVCVTX=NO,         MOVE X'..' CONVERTS                        *
OFADD=SYSUT2,       1 OF 4 ORIGINAL OUTPUT FILES               *
OFBDD=SYSUT3,       1 OF 4 ORIGINAL OUTPUT FILES               *
OFCDD=SYSUT4,       1 OF 4 ORIGINAL OUTPUT FILES               *
OFDDD=SYSUT5,       1 OF 4 ORIGINAL OUTPUT FILES               *
OFEDD=SYSOFE,                                                  *
OFFDD=SYSOFF,                                                  *
OFGDD=SYSOFG,                                                  *
OFHDD=SYSOFH,                                                  *
OFIDD=SYSOFI,                                                  *
OFJDD=SYSOFJ,                                                  *
OFKDD=SYSOFK,                                                  *
OFLDD=SYSOFL,                                                  *
OFMDD=SYSOFM,                                                  *
OFNDD=SYSOFN,                                                  *
OFODD=SYSOFO,                                                  *
OFPDD=SYSOFP,                                                  *
OFQDD=SYSOFQ,                                                  *
OFRDD=SYSOFR,                                                  *
OFSDD=SYSOFS,                                                  *
OFTDD=SYSOFT,                                                  *
OFUDD=SYSOFU,                                                  *
OFVDD=SYSOFV,                                                  *
OFWDD=SYSOFW,                                                  *
OFXDD=SYSOFX,                                                  *
OFYDD=SYSOFY,                                                  *
OFZDD=SYSOFZ,                                                  *
OVLY=NO,                                                       *
PARMFLD=YES,                                                   *
PFLEOPT=NO,                                                    *
PRNTLCT=54,                                                    *
PRTDD=SYSPRINT,                                                *
PRTSIZE=133,                                                   *
PUNDD=SYSPUNCH,                                                *
PUNSIZE=81,                                                    *
QJMDUMP=YES,                                                   *
RPTDD=SYSPRINT,                                                *
RPTSPCE=0,           SPACE BETWEEN DATA COLUMNS (REPORT)       *
SAVAREA=1024,       + SAV AREA WORKING STORAGE                 *
SEQCHK=NO,          + NO SEQUENCE CHECKING                     *
SORTABL=YES,                                                   *
SPIE=YES,             TRAP PROGRAM CHECKS                      *
SQLA1=8192,         + SQL WORK AREA-ORIGINAL SOURCE            *
```

```
        SQLA2=4096,         + SQL WORK AREA-COMPRESSED SRC       *
        SQLA3=1024,         + SQL WORK AREA-PTR HOST VAR.        *
        SQLA4=1024,         + SQL WORK AREA-PTR EXT. SUB         *
        SQLA5=8192,         + SQL WORK AREA-GENERATED CODE       *
        SQLPLNM=********,   + DB2 OR SQL/DS PLAN NAME            *
        SQLSYSN=****,       + DB2 OR SQL/DS SYSTEM NAME          *
        SQLVER=00.00,         DB2 OR SQL/DS VERSION, LEVEL NUMBER*
        SRTADJ=NO,           SORT ADJUST OFFSET                  *
        SRTERCD=150000,     + # OF RECORDS TO BE SORTED          *
        SRTPGM=SORT,                                             *
        SRTSIZE=64,         + MEMORY IN 'K' FOR SORT             *
        SRTWKN=NO,          SORT MULTIPLE FILES/AREAS CONCURRENT *
        STMTEND=71,         + ALLOWS SEQ IN 73-80                *
        STMTLCT=50,                                              *
        STMTS=250,            STATEMENTS IN QJ PROGRAM           *
        SUBSPIE=YES,                                             *
        TRACECT=10,                                              *
        TRLNAME=QUIKTRNT,                                        *
        UABNDMP=NO,                                              *
        UEXIT1=NO,                                               *
        U331DMP=YES,                                             *
        U333ABE=NO,                                              *
        U334DMP=NO,                                              *
        U335DMP=YES,                                             *
        U336DMP=YES,                                             *
        U338DMP=NO,                                              *
        U339DMP=NO,                                              *
        VLABEND=YES,                                             *
        VSAMER=NO,          |  8-BYTE RBA FOR VSAM EXTENDED FMT   *
        WSTSIZE=1000,                                            *
        ZEROPRT=NO
END
```

Installing VISION:Report Interface to DB2

Installing VISION:Report Interface to DB2 requires running two jobs; the second job is run after the successful completion of the first job. The two jobs are:

- CNTLPREP
- CNTLINST

In the installation jobs (CNTLPREP and CLTLINST) for VISION:Report Interface to DB2, you need to:

1 Change the JOB card to match your installation requirements.

2 Verify the data set names for the VISION:Report libraries match the data set names as originally installed.

3 Specify the data set name for your DB2 DBRMLIB.

Understanding CNTLPREP

The member, CNTLPREP, which was downloaded into the VISION:Report Interface to DB2 sample library (DB2SAMP), contains the steps necessary to create a CSECT, SQLCSECT, for cursors 1-999.

- You must successfully run this job (CNTLPREP) before you run CNTLINST.
- For a listing of CNTLPREP, see the section CNTLPREP in this guide.

The CNTLPREP steps are:

Steps	Description
ASMPRE	Assemble using PRESQL macro to specify DB2 system and plan names, as well as release and version number.
DB2PREP	Preprocess source code and create DBRMs. **Note:** The DB2PREP step receives a condition code of 4 and issues two DSNH084I messages. You can ignore these messages.
DB2POST	Post-process DB2 preprocessed statements.
OUTPUT	Print results of DB2POST.
ASMPOST	Assemble DB2 post/preprocessed statements.
COPY	Copy output to VISION:Report object library.

Specifying PRESQL Options

CNTLPREP, the sample JCL to create and code DBRMs, creates a preprocessor input stream to VISION:Report Interface to DB2 post-processor.

In the ASMPRE step, there is a job stream for assembling the various options using the PRESQL macro. Specify the following options in the PRESQL macro:

SYSTEM DB2 system name. There is no default. This is a 1-4 character field.

Required unless you are going to use TSO Attach, or if you are always going to use the OPTION statement to override the value.

PLAN DB2 plan name. The default is QUIKJOB. This is a 1-8 character field.

If the PLAN name is going to be the same as the DBRM name or if you are going to use TSO Attach, this field is not required.

CURSORS Number of cursors permitted. The default is 18; the allowable range is 1-999.

VERSION DB2 version number. The default is 7.

RELEASE DB2 release number. The default is 1.

CNTLPREP

Follow the instructions in CNTLPREP, modify the JCL to your installation requirements, and run this job before CNTLINSTL.

```
//CNTLPREP JOB (ACCTINFO),MSGCLASS=X,REGION=2M,COND=(4,LT)
//*
//*************************************************************
//*                                                           *
//* THIS IS STEP 1 OF INSTALLATION:                           *
//*                                                           *
//*    AFTER THIS JOB, RUN CNTLINST.                          *
//*                                                           *
//* CHANGE @@@AAA.@@@BBB TO THE APPROPRIATE HLQ'S,            *
//* AS WELL AS THE DB2 LOADLIB.  (SEE the <=== BELOW).        *
//*                                                           *
//*    NOTE:  CHANGE '????' IN DSN SYSTEM(????)               *
//*           TO YOUR INSTALLATION'S SYSTEM NAME.             *
//*                                                           *
//*           VERIFY VERSION AND RELEASE.                     *
//*                                                           *
//* 1) GENERATE DYNAMIC SQL PROTOTYPE STATEMENTS              *
//* 2) PROCESS SQL STATEMENTS TO CREATE SQL ASSEMBLER         *
//*    STATEMENTS AND DBRM                                    *
//* 3) EXTRACT SQL PARAMETERS FROM SQL ASSEMBLER STATEMENTS   *
//*    TO FORM ASSEMBLER SOURCE FOR SQL TABLE                 *
//* 4) PRINT OUT STATEMENTS                                   *
//* 5) ASSEMBLE SQL TABLE                                     *
//* 6) COPY SQL TABLE OBJECT TO OBJECT LIBRARY AS SQLCSECT    *
//*                                                           *
//*************************************************************
//*
//ASMPRE   EXEC PGM=ASMA90,REGION=3M,PARM=(TERM,OBJ)
//SYSLIN   DD  DISP=(,PASS),UNIT=DISK,SPACE=(80,(1500,250))
//SYSUT1   DD  UNIT=DISK,SPACE=(1700,(1000,250))
//SYSLIB   DD  DISP=SHR,DSN=@@@AAA.@@@BBB.OPTMATL     <===
//SYSPRINT DD  SYSOUT=*
//SYSTERM  DD  SYSOUT=*
//SYSIN    DD  *
        PRESQL SYSTEM=????,       *** PLEASE VERIFY     <===     -
               PLAN=QUIKJOB,      * VERIFY / OPTIONAL            -
               CURSORS=18,         *** PLEASE VERIFY    <===     -
               VERSION=7,         *** PLEASE VERIFY     <===     -
               RELEASE=1          *** PLEASE VERIFY     <===
*  MAY USE     PLAN=,   TO DEFAULT TO DBRM MEMBER NAME
        END
/*
//*
//DB2PREP  EXEC PGM=DSNHPC,PARM='HOST(ASM),STDSQL(NO),SOURCE'
//STEPLIB  DD  DISP=SHR,DSN=DB2.DB2710.SDSNLOAD         <===
//SYSIN    DD  DISP=(OLD,DELETE),DSN=*.ASMPRE.SYSLIN
//SYSPRINT DD  SYSOUT=*
//SYSTERM  DD  SYSOUT=*
//SYSCIN   DD  DISP=(,PASS),UNIT=DISK,SPACE=(CYL,(1,1)),
//             DCB=(LRECL=80,RECFM=FB,BLKSIZE=8160)
//SYSUT1   DD  UNIT=DISK,SPACE=(8160,(500,500))
//SYSUT2   DD  UNIT=DISK,SPACE=(8160,(500,500))
//DBRMLIB  DD  DISP=OLD,
/               DSN=@@@AAA.@@@BBB.DBRMLIB(QUIKJOB)     <===
//*
//DB2POST  EXEC PGM=POSTSQL
//STEPLIB  DD  DISP=SHR,DSN=@@@AAA.@@@BBB.LOADLIB      <===
//SYSPUNCH DD  DISP=(,PASS),UNIT=DISK,SPACE=(CYL,(1,1)),
//             DCB=(LRECL=80,RECFM=FB,BLKSIZE=8160)
//SYSIN    DD  DISP=(OLD,PASS),DSN=*.DB2PREP.SYSCIN
```

```
//SYSUDUMP DD  SYSOUT=*
//*
//OUTPUT   EXEC PGM=IEBGENER
//SYSIN    DD  DUMMY
//SYSPRINT DD  SYSOUT=*
//SYSUT1   DD  DISP=(OLD,DELETE),DSN=*.DB2PREP.SYSCIN
//SYSUT2   DD  SYSOUT=*
//*
//ASMPOST  EXEC PGM=ASMA90,REGION=3M,PARM=(TERM,OBJ)
//SYSLIN   DD  DISP=(,PASS),UNIT=DISK,SPACE=(80,(1500,250))
//SYSUT1   DD  UNIT=DISK,SPACE=(1700,(1000,250))
//SYSLIB   DD  DISP=SHR,DSN=@@@AAA.@@@BBB.OPTMATL      <===
//SYSPRINT DD  SYSOUT=*
//SYSTERM  DD  SYSOUT=*
//SYSIN    DD  DISP=(OLD,DELETE),DSN=*.DB2POST.SYSPUNCH
//*
//COPY     EXEC PGM=IEBGENER
//SYSPRINT DD  SYSOUT=*
//SYSUT1   DD  DISP=(OLD,DELETE),DSN=*.ASMPOST.SYSLIN
//SYSUT2   DD  DISP=OLD,DSN=@@@AAA.@@@BBB.OBJLIB(SQLCSECT) <===
//SYSIN    DD  DUMMY
//
```

Understanding CNTLINST

The CNTLINST job link edits modules and binds DB2 plan for VISION:Report Interface to DB2.

- Make sure that the proper DB2 authorization has been established. (See the section Obtaining DB2 Authorization in this guide)
- Ensure that the DB2 load library data set name matches that of your installation.
- Run the CNTLINST job only after the successful completion of CNTLPREP.

CNTLINST consists of:

Steps	Description
LINKDB2	Links SQLCSGET into VISION:Report load library.
BINDPLAN	Binds DB2 plan.

For a listing of CNTLINST, see the section CNTLINST in this guide.

CNTLINST

Follow the instructions in CNTLINST, modify the JCL to your installation requirements, and run this job after CNTLPREP.

```
//CNTLINST JOB (ACCTINFO),MSGCLASS=X,REGION=2M,COND=(0,NE)
/*JOBPARM S=CPUC          SYSTEM AFFINITY, IF NEEDED
//*************************************************************
//*                                                           *
//* THIS IS STEP 2 OF INSTALLATION:                           *
//*                                                           *
//*    RUN THIS JOB AFTER RUNNING CNTLPREP.                   *
//*                                                           *
//* CHANGE @@@AAA.@@@BBB TO THE APPROPRIATE HLQ'S,            *
//* AS WELL AS THE DB2 LOADLIB.  (SEE THE <=== BELOW).        *
//*                                                           *
//* 1) LINK SQLCSECT                                          *
//*                                                           *
//* 2) BIND SQL PLAN                                          *
//*    NOTE:  CHANGE '????' IN DSN SYSTEM(????)               *
//*           TO YOUR INSTALLATION'S SYSTEM NAME.             *
//*                                                           *
//*************************************************************
//LINKSQL  EXEC  PGM=IEWL,REGION=1M,PARM='MAP'
//SYSLIN   DD    DISP=SHR,DSN=@@@AAA.@@@BBB.OBJLIB(SQLCSECT)  <===
//         DD    *
 NAME SQLCSECT(R)
/*
//SYSPRINT DD  SYSOUT=*
//SYSLMOD  DD    DISP=MOD,DSN=@@@AAA.@@@BBB.LOADLIB           <===
//SYSUT1   DD    UNIT=DISK,SPACE=(1024,(250,20))
//*
//BINDPLAN EXEC PGM=IKJEFT01,DYNAMNBR=20
//STEPLIB  DD   DISP=SHR,DSN=DB2.DB2710.SDSNLOAD              <===
//DBRMLIB  DD   DISP=SHR,DSN=@@@AAA.@@@BBB.DBRMLIB            <===
//SYSTSPRT DD   SYSOUT=*
//SYSTSIN  DD   *
  DSN SYSTEM(????)
  BIND PLAN(QUIKJOB) RETAIN MEMBER(QUIKJOB) ACTION(REPLACE)
  END
/*
//
```

Comparing QJOPTION and PRESQL

The QJOPTION and PRESQL macros in the source/macro library (OPTMATL) appear to have duplicate options. To avoid potential conflicts, the following describes the priorities between the macros.

QJOPTION	PRESQL	Action
No system or plan name (defaults to all *)	System and plan name	Takes system and plan name from PRESQL
System and/or plan name	System and/or plan name	Takes system and/or plan name from QJOPTION
Within the VISION:Report program, if OPTION statement specifies: SQLSYSN=xxxx and/or SYSPLNM=xxxxxxxx	System and/or plan name	Takes system and/or plan name from: OPTION statement first, then QJOPTION, if specified, then PRESQL macro

This method gives the greatest flexibility without requiring reassembly of the QJOPTION macro. It allows overrides using the OPTION statement or lets the OPTION statement default to the PRESQL system and/or plan names.

Testing VISION:Report Interface to DB2

After you run the installation jobs CNTLPREP and CNTLINST, you can test VISION:Report Interface to DB2 using the QJTSTDB2 procedure (see the section QJTSTDB2 in this guide).

QJTSTDB2 contains the required JCL to run VISION:Report Interface to DB2 test programs. You can find the member names, testing sequence, and expected output in the *VISION:Report Interface to DB2 Reference Guide*.

1 These tests require that module QUIKDATT be present in your VISION:Report load library. If it is not present, you will need to run ASMYDATT.

2 Make certain the QJTSTDB2 JCL procedure is available to the test jobs by verifying that QJTSTDB2 is in a system-accessible procedure library or by including a JOBPROC JCL statement pointing to the library that contains QJTSTDB2.

QJTSTDB2

Use QJTSTDB2 to test the installation of VISION:Report Interface to DB2. Note the instructions in the JCL, modify the JCL to your installation requirements, and run this job after CNTLINST.

```
//QJTSTDB2 PROC REG=2M           REGION SIZE DEFAULT
//* ************************************************************
//*QJTSTDB2:                                                    *
//*                                                             *
//*         THIS PROC IS TO TEST VISION:REPORT INTERFACE TO DB2  *
//*                                                             *
//* YOU CAN OVERRIDE THE REG(ION) SIZE                          *
//* YOU WILL NEED TO SUPPLY:                                    *
//*   SYSUT1, OFA, SYSIN, ETC.                                  *
//*                                                             *
//*  OVERRIDE 'SLIB2'  FOR DB2 LIBRARY.  <<==================    *
//*                                                             *
//*  NOTE:  IF YOU NEED TO RUN TRACES. CHANGE                   *
//*         THE "TR#SQL" DD STATEMENT FROM “DUMMY”              *
//*         TO "SYSOUT=*".                                      *
//*                                                             *
//*   ===>   CHANGE @@@AAA.@@@BBB TO YOUR HLQ’s.                *
//* ************************************************************
//*
//QJ       EXEC PGM=QUIKJOB,REGION=&REG
//STEPLIB  DD  DISP=SHR,
//         DSN=@@@AAA.@@@BBB.PATCHLD           <===  PATCH LOADLIB
//         DD  DISP=SHR,DSN=@@@AAA.@@@BBB.LOADLIB <=== RELEASE LIB
//         DD  DDNAME=SLIB2                     ===>   DB2 LIBRARY
//SLIB2    DD  DISP=SHR,DSN=DB2.DB2710.SDSNLOAD   <===  DB2 LIBRARY
//SYSPRINT DD  SYSOUT=*
//SYSUDUMP DD  SYSOUT=*
//TR#SQL   DD  DUMMY  OR SYSOUT=* SQL TRACE PRINT (FOR DEBUGGING)
//SYSPUNCH DD  SYSOUT=*,DCB=(LRECL=81,BLKSIZE=81)
//QUIKIPDS DD  DISP=SHR,DSN=@@@AAA.@@@BBB.SAMPLIB    <===  SAMPLIB
//* ABNLIGNR DD  DUMMY               ABEND-AID
```

Using VISION:Report Interface to DB2 Under DSN

As distributed, VISION:Report Interface to DB2 uses an internal attachment to DB2 (using the CALL Attach Facility). However, your installation may require the use of the TSO Attach Facility (DSN – the command processor for DB2).

To use DSN, set the system name in the QJOPTION macro to all blanks. Replace the statement that executes VISION:Report in your TSOCLIST with the following statement:

```
DSN RUN PROGRAM(QUIKJOB) PLAN(QJ#PLAN) END
```

This assumes that the DB2 load library (where the DSN resides) is already allocated as part of your JOBLIB or STEPLIB (or is in the LPA), and that the VISION:Report and VISION:Report Interface to DB2 load libraries are also allocated.

Contacting Computer Associates

For technical assistance with this product, contact Computer Associates Technical Support on the Internet at http://supportconnect.ca.com. Technical support is available 24 hours a day, 7 days a week.

Index

@

A

B

C

D

E

G

I

J

L

M

O

P

Q

R

S

T

U

V

Z