STAR 2000™

STAR Vista Reporting/SQL Reference Guide

McKESSON
Empowering Healthcare

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Documentation Conventions

Documentation for McKesson's STAR 2000™ line of products follows these conventions:

Revisions
Text revisions are indicated by a change bar in the left margin. Paragraphs that contain grammatical changes that do not affect content are not marked.

Canadian Documentation
This volume may include documentation for Canadian users of this product. Complete sections of Canadian text are identified by "CN" and "CN Only."

Key Names
Named keys, such as SHIFT, CTRL, ALT, and ENTER, are displayed in this document in uppercase (capital) letters. A symbol key is written as text in this document followed by the symbol in parentheses, such as hyphen (-) and asterisk (*).

Key Chords
Key chords are key entries that require you to hold down one or more keys (typically, CTRL, ALT, or SHIFT) before pressing another key. In this document, key chords are displayed as the names of each key in the chord separated by a hyphen (-) (for example, CTRL-ALT-DEL).

Enter
ENTER is a key on a computer keyboard used to complete an entry on a STAR system. (This key may also be referred to as NEW LINE or NL in the STAR system.)

Data Entries
Letters or words you enter in response to the system are displayed in **bold** letters in this document. For example: Enter **Y** for Yes or **N** for No.

Selecting an Entry
This document often instructs you to "select an entry." The method you use to select an entry depends on whether you are using STAR from a terminal or IBM-compatible personal computer. Entry methods include:

- Entering the option number
- Using your arrow keys to highlight the option and pressing ENTER
- Clicking on the option using a mouse or other pointing device (PC only)

For more information about these options, see the *General Information Volume*.

Prompts
System prompts are displayed at the bottom of many STAR screens when the system requests an entry or displays a message. In this document, these prompts are indented and the text italicized, as shown in the following example:

> *Enter patient name--*

Field Characteristics

STAR product documentation provides field explanation codes, in addition to a narrative description for each field on a screen. These codes display the maximum length of your entry in the field, the type of entry you make in the field, and whether the field is required. This information displays in the following format:

- DISPLAY ONLY for a field you cannot edit.

- For X-YY-Z field types, where:

  - X is the maximum number of characters permitted in the field:

    - P for a field length determined by a Parameter

    - T for a field length determined by a Table

    - U for a field having an Undefined length

  - YY is the type of entry technique permitted in the field:

    - A for Letters only

    - AC for Letters and Punctuation only (no numbers)

    - AN for Numerals and Letters only (no punctuation)

    - C for Characters (including punctuation)

    - N for Numerals only

    - NC for Numerals and Punctuation only (no letters)

  - Z is the requirement indicator of the field:

    - C if an entry is Conditionally required or optional

    - O if an entry is Optional to complete the function

    - R if an entry is required to complete the function

      NOTE: Facilities can designate that certain fields be Required. STAR product documentation does not display R for fields designated as Required by a facility.

  - For YY-Z field types, where YY is:

    - DATE for a field subject to the date entry conventions described in the *General Information Volume*.

    - SPECIAL FORMAT for a field having data entry requirements not conforming to standard format. The field definition contains the specific data entry requirements for the field.

    - TABLE LOOKUP for a field that enables you to select from a displayed table. See the *General Information Volume* for more information regarding this entry technique.

    - TIME for a field subject to the time entry conventions described in the *General Information Volume*.

    NOTE: For use of the Z position in this format, refer to the explanations for Z under X-YY-Z.

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This chapter describes the STAR Vista Reporting menus and functions available for each menu.

Chapter 2: Installing and Configuration Vista Reporting Software and ODBC

This chapter provides information and instructions for installing the KB_SQL® ODBC (Open Database Connectivity) Driver software required to connect a PC (client) running Microsoft® Windows® to a STAR MUMPS database server running KB_SQL. It also includes information about QRE®, its installation and testing.

Chapter 3: Troubleshooting

This chapter includes a Query Development Checklist (which is a handy worksheet to identify key points prior to developing a query) and some helpful hints in identifying problems or potential problems. In addition, operational issues/resolutions and support contact information is provided.

Chapter 4: Functions and Stored Procedures

This chapter contains general and product specific functions as well as stored procedures. Functions allow one or more values to be combined to produce a result and can be used to compute, modify formats, and access MUMPS functions. Stored procedures streamline operations and minimize entry errors in queries used on a regular basis.

Chapter 5: Query Generation and Report Output Options

This chapter contains information about QRE as well as running queries, transaction logs and SQL functions. In addition, export and import methods, universal output options, HTML output options, FTP processing and report distribution via UNIX® e-mail are covered.

Chapter 6: STAR Financials

This chapter contains all the tables that STAR Vista Reporting uses in the STAR Financials modules. Also included are functions related to STAR Financials, and sample queries with their descriptions and results.

Chapter 7: STAR Laboratory

This chapter contains all the tables that STAR Vista Reporting uses in the STAR Laboratory modules. Also included are functions related to STAR Laboratory, and sample queries with their descriptions and results.

Chapter 8: STAR Patient Care

This chapter contains all the tables that STAR Vista Reporting uses in the STAR Patient Care modules. Also included are functions related to STAR Patient Care, and sample queries with their descriptions and results.

Chapter 9: STAR Pharmacy

This chapter contains all the tables that STAR Vista Reporting uses in the STAR Pharmacy modules. Also included are functions related to STAR Pharmacy, and sample queries with their descriptions and results.

Chapter 10: STAR Radiology

This chapter contains all the tables that STAR Vista Reporting uses in the STAR Radiology modules. Also included are functions related to STAR Radiology, and sample queries with their descriptions and results.

Appendix A: STAR Vista Tool Kit Queries

This chapter contains the names and descriptions of the STAR Vista Tool Kit queries..

Chapter 1 - GENERAL INFORMATION

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Illustrations

MENU OPTIONS

SQL User Menu

This section describes the STAR Vista Reporting menus and the functions available for each menu.

For user access to the SQL environment, the following menu is displayed:

```
                    General Hospital SQL User Menu Processor
                                              Wed Jul 31, 2003 11:22 am
SQL User Menu Input Options


          Option No.  Option
          ---------------------------------------
               1        STAR Vista Reporting Access
               2        Data Dictionary Summary Print
               3        Online Table Documentation
               4        Unlock Query

Enter option number--
```

STAR VISTA REPORTING ACCESS

This menu option enables access to the SQL operating environment, which includes the SQL Editor®, the EZQ Editor®, and various SQL utilities. Access to these options, once you are in the environment, is dictated by the security assigned to your user password by the Database Administrator (DBA).

Once you have completed work in the SQL environment, control returns to the SQL User Menu.

DATA DICTIONARY SUMMARY PRINT

This option can be used to produce a concise report of all columns in a table. For each column, the following information is printed:

- Internal column name
- Primary key/Conceal on SELECT * flag
- Description
- Domain and field length

Column descriptions can be marked with an asterisk (*), indicating the column is a primary key, or a carat (^), which indicates the marked column is not displayed when the SELECT * statement is used in the SQL Editor to query the table.

NOTE: In the latter case, the column is displayed only if the name of the column appears in the SELECT clause of the query.

Using this option provides a quick way of checking the defined columns of a table without entering the SQL environment. The report may be either displayed or printed. If you print the report on a laser printer, you have the option of printing key information in boldface italics. When you select this menu option, the following table of schemas displays:

```
                 General Hospital Data Dictionary Summary Print Processor
                                              Mon Jan 16, 1995 08:08 am
Page:01                                 Schemas
( 1) DATA_DICTIONARY
( 2) SQL_TEST
( 3) SQL_TRAINING_TABLES


Enter schema number--
```

After you select the schema, the following prompt for table name displays:

Enter table name or first characters'-'--

If a partial name is entered, a list of tables with matching first characters displays. You can then select either a single table or multiple tables to print on the report.

In the following list, the partial table name LG- was specified:

```
                 General Hospital SQL Environment Control Processor
                                              Thu Oct 14, 1993 10:40 am
Page:01                                 Tables            ##=Current Choices
( 1) LG_ABNORMAL_FLAGS              (16) LG_COR_ABNORM_FLAG
( 2) LG_ACCN_DATE_INDEX            (17) LG_COR_RESULTS
( 3) LG_ACCN_TRACKING              (18) LG_COR_RESULT_MAST
( 4) LG_ACCOUNT_ACCNS              (19) LG_EQC_LOG
( 5) LG_ARC_QUEUE_HELD             (20) LG_EQC_LOG_CANC
( 6) LG_ARC_QUEUE_MAST             (21) LG_EQC_LOG_COMNT
( 7) LG_ARC_QUEUE_PAT              (22) LG_EQC_LOG_CORR
( 8) LG_ARC_QUEUE_PURGE            (23) LG_EQC_LOG_DCOMNT
( 9) LG_CHRG_ADV_MOD               (24) LG_EQC_LOG_OCOMNT
(10) LG_CHRG_MISC                  (25) LG_EQC_LOG_REJ
(11) LG_COMMENTS                   (26) LG_EQC_LOG_STAT
(12) LG_COMP_AGE_NORM              (27) LG_EQC_MAINT_LOG
(13) LG_COMP_DFLT_NORM             (28) LG_INC_MASTER
(14) LG_COMP_LAST_VER              (29) LG_INC_PAT_TESTS
(15) LG_COMP_MASTER                (30) LG_INC_RESULTS


Enter choices (e.g. 1,7,5-9) or '-'choices to remove--
        end selection(NL)  next page(/)
```

You then have the choice of printing the report or displaying it at your PC or terminal:

Spool this Query to hardcopy (Y/N) [N] --

Enter **Y** if you want to print the report. Next, a prompt for printer name displays. Enter the printer name or partial name and select a printer from the table displayed.

McKesson supports the use of Kyocera F-1000A laser printers for landscaping and enhanced print options. If your printer has the capability of enhanced options, the following prompt is displayed:

Print with enhanced laser options (Y/N) --

Indicate whether you want to print all primary keys in boldface italics:

Enter **Y** if you want to italicize the keys or press ENTER to continue. Refer to Figure 1.1 for a sample table print report.

Figure 1.1 Table Print Report

```
07/03/95 9:20 am            STAR SQL Table Definition           Page: 1
                                 LG_ABNORMAL_FLAGS
                                  Abnormal Flags

Column Name        Column Description (*=Key, ^=Conceal)     Domain
-----------------------------------------------------------------------
ABNORMAL_FLAG      Abnormal Flag For A Result                CHAR(4)
ACCN               *Accession Number                         BAR_INT(12)
DATA               ^Data Node                                CHAR(60)
FAC                *Facility Code                            CHAR(1)
RES_NBR            *Result Number Counter                    INT(2)
TEST_CD            *Test Code                                NUM(8,0)
                              * End of Table *
```

ONLINE TABLE DOCUMENTATION

This function enables you to access the online documentation of tables. You can view or print individual table documentation. Each table has a purpose/use explanation, source of information, and any pertinent notes you need to know in using that table.

When you select this menu option, the system automatically displays the list of available schemas from which to choose:

```
        General Hospital Online Table Documentation Processor
                                              Fri Sep 9, 2005 08:08 am
Page:01                              Schemas
( 1) COMMON_CLINICAL
( 2) COMMON_FINANCIAL
( 3) GENERAL_ACTG
( 4) PATIENT_ACTG
( 5) PATIENT_CARE
```

You are prompted to select the schema you want. You can return to the SQL User Menu by pressing ENTER.

After you select the schema, the system displays the following prompt:

Hardcopy? (Y/N) [N]--

If you enter Y to request a hard copy, the system then prompts you to enter the table name or the first character(s) and a hyphen (**-**). If you enter the first character(s) and a hyphen (**-**), the system automatically displays a list of tables from which you can choose.

After you select the table you want, the system automatically displays the list of printers from which you can choose. After you select the output printer, the system displays a verification message:

> *Printing!*

You are then returned to the SQL User Menu.

If you enter N at the hard copy prompt, the system prompts you to enter the table name or first characters of the table name and a hyphen (**-**). If you enter the table name, the system displays the documentation shown on the following screen. If you enter the first character(s) and a hyphen (**-**), the system automatically displays a list of tables from which you can choose.

After you make your table selection, the system displays the following documentation screen:

```
            General Hospital SQL Table Documentation Processor
 Schema: RADIOLOGY
Table Name: XC_ACT_TRACK                                              View
    TABLE:  XC_ACT_TRACK

    PURPOSE/USE:
    This table contains activity tracking information for radiology exams
    performed as well as patient information associated with the exam.

    SOURCE:
    The data in this table is updated frequently by Exam Data Entry and other
    functions after an exam is checked in the radiology department.

    NOTES:
    This table has a one-to-one relationship to the check-in information table.
    Used together, these tables contain most of the information needed for
    reporting on patients, radiology exams and tracking times.

 Press NL--
```

Press ENTER to return to the table name prompt.

UNLOCK QUERY

This utility enables you to unlock any query that may have been in use when an abnormal interruption or exit occurred. When you select this menu option, the system automatically displays all queries that are currently locked. You are prompted to select the query you want to unlock by the following prompt:

Enter choice--

If there is an active job associated with the locked query, the prompt includes the job number:

Query currently locked by job 68. Unlock? (Y/N) [Y]-

Queries that are locked due to dropped connections or connections that abort due to MUMPS errors do not have an active job associated with the query. If you are using QREPRO 5.0, a query may be locked, but not have an active server connection or job number associated with it at the present moment.

If you are using STAR Vista 5.0, the Unlock Query prompt includes the query name, application (QREPRO or SQL Editor), and SQL User, as shown in the following examples:

Query QB_ABC_MAIN (QREPRO) currently locked by user DBA. Unlock? (Y/N) [Y]-

Query QB_CENSUS (SQL EDITOR) currently locked by user MENU job 398. Unlock? (Y/N) [Y]-

If you want to unlock the query, press ENTER to accept the default. Otherwise, the query remains locked. When the lock has been removed, a message displays and you are returned to the SQL User Menu. The query is now available for use in the SQL Editor.

If you select this menu option and there are no queries locked, the system displays the following message:

No Entries Defined

The system redisplays the SQL User Menu.

WARNING: Only use the Unlock Query function if a query is locked due to an abnormal SQL exit. If you unlock a query that is currently being edited or executed, the query could be corrupted. To stop a query that is being executed, use the Halt Query function.

SQL DBA Menu

The SQL Database Administrator (DBA) menu has the same four functions as the SQL User Menu as well as a few more control functions.

If you access the SQL DBA Menu, the following displays:

```
                    General Hospital SQL DBA Menu Processor
                                          Wed May 10, 2012 11:50 am
 SQL DBA Menu Input Options

         Option No.  Option
         ---------------------------------------
              1         STAR Vista Reporting Access

              2         Unlock Query
              3         Data Dictionary Summary Print
              4         Online Table Documentation
              5         SQL Table/Node Crossreference
              6         Global Utility Access
              7         Query Transfer ID to ID

              8         DBA Maintenance Functions
              9         View Spooled Reports
             10         Write Reports to Tape

             11         UNIX Email Job Options
             12         FTP Transfer Options
             13         Alerts Job Options
             14         STAR Vista Tool Kit
 Enter option number--
```

STAR VISTA REPORTING ACCESS

This menu option enables access to the SQL operating environment, which includes the SQL Editor, the EZQ Editor, and various SQL utilities. Most of the management functions required at the DBA level are controlled from within the SQL environment. Once you have completed work in the SQL environment, control returns to the SQL DBA Menu.

UNLOCK QUERY

This function is identical to the Unlock Query option on the SQL User Menu. For more information, see "Unlock Query" on page 1-9.

DATA DICTIONARY SUMMARY PRINT

This function is identical to the Data Dictionary Summary Print option on the SQL User Menu. For more information, see "Data Dictionary Summary Print" on page 1-5.

ONLINE TABLE DOCUMENTATION

This function is identical to the Online Table Documentation option on the SQL User Menu. For more information, see "Online Table Documentation" on page 1-7.

SQL TABLE/NODE CROSS-REFERENCE

This function enables a user to identify MUMPS database globals/nodes referenced by STAR Vista Reporting tables. This data can be extremely meaningful to experienced SQL database managers.

When you access this function the system displays a screen listing the available schemas in your environment:

```
           General Hospital SQL Table/Node Crossreference Processor
                                          Thu Oct 14, 1993 12:20 pm
Page:01                              Schemas
( 1) DATA_DICTIONARY
( 2) SQL_TEST
( 3) SQL_TRAINING_TABLES

Enter schema number--
```

Enter the option number of the schema for which you want to display cross-reference information for MUMPS nodes/pieces and SQL tables.

The system displays the following prompt:

Print (T)ables, (N)odes, or (B)oth? (T/N/B)--

This prompt determines whether the system includes tables, nodes, or both on the report. Enter **T** to include tables only, enter **N** to include nodes only, or enter **B** to include both tables and nodes. The system then displays the following prompt:

Print descriptions? (Y/N)--

Enter **Y** if you want to display descriptions of cross-referenced SQL tables. Enter **N** if you want to display only the table name.

The system then displays the following prompt:

Spool this Query to hardcopy (Y/N) [N] --

Enter **Y** to print the cross-reference report; the system prompts you for the name of the spooler report to which you want the report to print.

When you identify the system spooler, the system begins to spool the report to the system spooler, displaying the following message:

Printing!

Enter **N** to display the cross-reference report at your PC or terminal. The system displays each cross-referenced SQL table and the corresponding MUMPS database global, node, and piece, as in the following example:

```
10/14/93 1:28 pm                STAR SQL Table Index Report              Page: 1
                                    Schema: SQL_TEST
Table/Description   Node
-------------------------------------------------------------------------------
B_R1761               ^SQLT(300003,EMP_SSN,2)

EMPLOYEES             ^SQLEMP(EMP_SSN)
   This is a table of all employees.

PROJECTS             ^SQLPROJ(PROJ_NO,1)
   This is a table of current projects.

TASKS                ^SQLPROJ(PROJ_NO,"T",TASK_NO,2)
   This is a table of tasks for projects.

TOTAL TABLES = 4
TOTAL NODES  = 4
Press NL--
```

The system displays information for as many tables that fit on a screen. Press ENTER to display the next screen of information. When the final screen of information displays, press ENTER to return to the menu.   Refer to Figure 1.2 for an example printed version of this report.

Figure 1.2 STAR SQL Node Index Report

```
07/03/95 1:34 pm                STAR SQL Table Index Report              Page: 1
                                    Schema: SQL_TEST
Table/Description   Node
-------------------------------------------------------------------------------
B_R1761               ^SQLT(300003,EMP_SSN,2)
EMPLOYEES             ^SQLEMP(EMP_SSN)
   This is a table of all employees.
PROJECTS             ^SQLPROJ(PROJ_NO,1)
   This is a table of current projects.
TASKS                ^SQLPROJ(PROJ_NO,"T",TASK_NO,2)
   This is a table of tasks for projects.

TOTAL TABLES = 4
TOTAL NODES  = 4

10/14/93 1:34 pm                STAR SQL Node Index Report               Page: 2
                                    Schema: SQL_TEST
Node/Table/Description
-------------------------------------------------------------------------------
^SQLEMP(EMP_SSN)
        EMPLOYEES
        This is a table of all employees.
^SQLPROJ(PROJ_NO,"T",TASK_NO,2)
        TASKS
        This is a table of tasks for projects.
^SQLPROJ(PROJ_NO,1)
        PROJECTS
        This is a table of current projects.
End of Report
```

GLOBAL UTILITY ACCESS

Global Utility Access is a function available to users who have a knowledge of global (database) structures. This option provides the user with access to the global utilities.

When you select the SQL DBA menu option, the following screen is displayed:

```
                      General Hospital SQL DBA Menu Processor
                                              Wed May 10, 2006 11:50 am
SQL DBA Menu Input Options


          Option No.  Option
          --------------------------------------
               1        STAR Vista Reporting Access

               2        Unlock Query
               3        Data Dictionary Summary Print
               4        Online Table Documentation
               5        SQL Table/Node Crossreference
               6        Global Utility Access
               7        Query Transfer ID to ID

               8        DBA Maintenance Functions
               9        View Spooled Reports
              10        Write Reports to Tape

              11        UNIX Email Job Options
              12        FTP Transfer Options
              13        Alerts Job Options
Enter option number--
```

Select the Global Utility Access menu option. The user must enter either a DBA or SYS_MGRS password to use this function. The system displays the following prompt:

    Global Option:

If you know the option code, you can enter it and press ENTER. If you want to see a list of the available functions that can be performed through Global Utilities, enter a question mark(?).

The system automatically displays the available functions, as in the following screen example:

```
Global Options:                            Mon Mar 13,1995 01:16pm

        GLOBAL UTILITIES

    P  - Print
    PS - Print on Screen
    D  - Directory List
    DP - Directory List on Printer
    DS - SubDirectory List
    S  - Search
    H  - How Big is it?


Global Option:
```

You have access to the P (Print) and PS (Print on Screen) options. Print and Print on Screen display or print the data contained in a global. These options are helpful for looking up specific globals in relationship to the STAR Vista Reporting tables. Used this function in combination with the SQL Table/Node Crossreference function found on the SQL DBA menu.

The remaining options (D, DP, DS, S and H) are for the purpose of reviewing the database directory and more technical database information. These options do not prove beneficial for the SQL DBA users and are, therefore, not documented.

Enter the letter(s) corresponding to the function you want to perform.

Print Option (P)

Enter **P** to select the Print option. The system displays a series of prompts for you to define how you want the report to print. The default responses are in parentheses:

Run in Background? (N)--

If you want to print a hard copy of the report, enter **Y** for Yes. If you want to display the report on the screen, enter **N** for No and refer to the Print on Screen option (PS) that follows.

If you enter Y for Yes, the system prompts you to enter the port number of the printer:

Use Device #: (HOME)--

You can enter the printer port number or press ENTER to display to your device.

The remaining prompts enable you to set the width of the paper, the lines per page, and the width of the tabular column:

Paper Width: (80)--
Lines per Page: (22)-
Tab Column: (20)--

Once you define the report's parameters, the system displays prompts that enable you to define the information you want to display. Refer to the Print on Screen option (PS) that follows for the remaining system prompts.

Print on Screen Option (PS)

Enter **PS** to select the Print on Screen option. The system displays the following prompt for you to define where you want the system to begin the report:

Begin--

Enter the name of the database or a specific subset of the database. You do not need to include the "^" character or the closing parenthesis ")" of the database name. If you do not spell the database name correctly, the system cannot find the database and does not return any information.

Once you enter the name of the database, the system displays the following prompt:

End--

You can enter one of the following for where you want the system to end the report:

- To display the global from the beginning, up to and including a database component, enter the name of the database component. You do not need to include the "^" character or the closing parenthesis ")" in the component name.

- To display the entire database, press ENTER. Be aware that this selection may take a long time to display if you want to view a large database. If you want to cancel the report, enter period (.) and ENTER to exit the function.

- To end the report after the system displays all the data in the database component entered in the *Begin* prompt, enter a single quotation mark " ' ".

The system displays the following prompt:

Change Name to--

This prompt is used by McKesson technical personnel for copying and renaming databases, an option that is not available to McKesson customers.

Press ENTER to continue. The system displays the following prompt:

Begin--

You can enter the name of the next database you want to display or press ENTER to allow the system to display all your selections. Following are some examples of global data you can display using the Global Utility Access function.

Example #1

Begin--SQLAT("DEMOG","B9104020001" End--'   Change Name to--
Begin--

^SQLAT("DEMOG","B9104020001")=
"FLOWERS,HEIDI:S::F:25660:7784169:6183CHESTNUT DRIVE:B
        BUILDING THREE:LOUISVILLE:KY:60008"

Begin--

Example #2

```
Begin--SQL(216    End--SQL(216,89  Change Name to--
Begin--
^SQL(216)          ="89"
^SQL(216,"2",300005,89)=""
^SQL(216,"5",56307,34920,89)=""
^SQL(216,89,1)="89~56307~34920~300005~1~~QTS_START_DATE_TIME~~7"
^SQL(216,89,3)="D 2^SQLV5A"
^SQL(216,89,4)="Waiting to run"
Begin--
```

QUERY TRANSFER ID TO ID

This menu option enables you to transfer both EZQ and SQL query(ies) from ID to ID using a transfer maintenance parameter previously defined by the Query Transfer ID to ID Maintenance option on the SQL DBA Menu. When you select the Query Transfer ID to ID menu option from the originating ID where transferring the query(ies) exist, the system displays the following prompt:

> *Enter query first letters`-` to list--*

If you enter the first letters of your query, the system automatically displays a list of queries beginning with those same letters. The prompt below enables you to choose one or many queries to move:

> *Enter choices (e.g. 1,7,5-9) or '-'choices to remove--*
>   *end selection(NL)*

Select the choice(s) you want and press ENTER. The system then displays a summary screen of previously defined transfer maintenance parameters for your selection.

If the selected query(ies) already exist in the destination ID, the transfer occurs and overlays the existing query(ies).

Transfer maintenance parameters must be established prior to selecting Query Transfer ID to ID. If you use the Query Transfer ID to ID without having previously defined any transfer maintenance parameters, the system displays the following message:

> *No entries defined!*

You are then returned to the SQL DBA Menu.

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The system displays a screen similar to the following:

```
           General Hospital Query Transfer ID to ID Maintenance Processor
                                             Tue May 05, 1992 08:47 am

  Page:01                          Destination ID Groups
          Description                      Source ID  Destination ID
  ( 1) SQL TRANSFER - LIVE ID to TEST ID       1             2
  ( 2) SQL TRANSFER - TEST ID to LIVE ID       2             1




      




    Enter option number or Add(A)--
```

Select the option representing the transfer maintenance parameter you want to use.
The system asks you to verify that you want to transfer *ALL* queries listed from the
source ID to the destination ID specified by the transfer maintenance parameter.

The transfer maintenance parameter may be set to deny the transfer capability and
displays the message *** Disabled ***on the same line in the right margin of the screen.
The system displays a message that the transfer option is disabled when selected.

The following screen is an example of a query to be transferred from ID 2 to ID 1:

```
                  General Hospital Transfer SQL Queries Processor
                                         Tue May 05, 1992 10:49 am

               Queries to be transferred to destination ID!

      QAG_ATTEND_PHY_CEN







    

Transfer ALL above listed queries from ID 2 to ID 1? (Y/N) --
```

Enter **N** if you do not want to continue transferring the selected query(ies) and be
returned to the Query Selection prompt. Enter **Y** to continue with the transfer. The
system displays the following message:

   Transferring Queries....Please Wait!

NOTE: The system does not transfer the query if it is being accessed or is locked in either the originating or destination IDs. Currently, the system does not display an error message if the transfer is not made, so it may appear that the system has successfully completed a query transfer. The SQL third-party vendor addresses this issue in a future SQL tool release.

When your software move is complete, the system displays the following confirmation message:

Process Complete

You are returned to the Query Selection prompt. Press ENTER to return to the SQL DBA Menu.

To verify the successful transfer, sign on to the destination ID and access the query(ies) through the SQL Editor menu. If you have an unsuccessful transfer, review the console log against the transfer maintenance parameter description for error information.

DBA MAINTENANCE FUNCTIONS

This option enables you to access a set of functions used to maintain and set parameters for processing in the STAR Vista Reporting system. When you access this option, the system displays the following screen:

```
                General Hospital DBA Maintenance Functions Processor
                                                Wed May 10, 2006 11:47 am

                            DBA Maintenance Processors
( 1) Background Task Information
( 2) Compile Queries
( 3) Data Integrity Checker
( 4) Delete Multiple Queries
( 5) Display Query Batch Jobs
( 6) Force results to spooler
( 7) QRE Host Devices Update
( 8) Query PC Download/Upload
( 9) Query Transfer ID to ID Maint
(10) Report Maintenance
(11) Reset SQL
(12) Security User Report
(13) STAR System Examine Job Status
(14) System Lock Maintenance
(15) View Console Log
(16) VSD SQL Bundles


Enter option number --
```

The functions on this menu are explained individually below.

NOTE: Some of the options are also available as separate STAR Menu Library Elements and can be added to other DBA and non-DBA user menus. For more information, see "RUNNING SQL FUNCTIONS FROM MENUS" on

Background Task Information

This function enables you to define parameters for background task processing in the STAR Vista Reporting product. These parameters identify:

- Whether queries can be run in background

- The number of queues that can be simultaneously run in background

When you access this function the system displays the following screen:

```
                General Hospital Background Task Information Processor
                                                Fri May 12, 2006 02:09 pm


    Run queries in background    :  Yes

    How many queues              :  1



Allow users to run queries in the background? (Y/N) [Y] --
```

The following prompts are displayed:

Allow users to run queries in the background? (Y/N) [Y] --

This prompt determines whether SQL queries can run in background. Enter **Y** to permit the system to run queries in background. Enter **N** if you want all queries to be processed in the foreground.

NOTE: If queries are processed in background, the system runs a job to watch for and process queries. This job is SQLV5. As with any job, you can manually remove this job; however, doing so causes the system to never run requested queries and may cause the Rollback Transaction utility to abort when you next run it. Do not remove this job from the system.

If you enter N at the *Allow users to run queries in the background? (Y/N) [Y] --* prompt, the system does not permit you to access the remaining fields of the screen, defaulting the *How many queues* field to 0. In addition, the following warning is displayed on the screen before you accept the changes:

`NO' = All queries run by a user will be processed
on a first in, first out basis!

If you enter Y at the *Allow users to run queries in the background? (Y/N) [Y] --* prompt, the following prompt is displayed:

Enter the maximum number of background queues active at anytime? (1-99) [1] --

This prompt identifies the maximum number of background queues that the system can have active at a given time. The system permits you to have up to 20 queries running at the same time; however, McKesson recommends you set this value between two and four, depending upon the SQL processing needs of your healthcare information system. Setting this value too high can cause the system to process too many jobs during peak system utilization periods.

The system creates these queues only when needed to process a background query. If no background queries are being processed, the system does not open any queues for processing. After you initiate a queue or routine, the system keeps all queues active until no outstanding batch or background requested queries remain.

Compile Queries

This function enables you to compile one, all, or a range of STAR Vista Reporting queries.

NOTE: This function does not permit you to omit DDL and DLL queries.

When you access this function the system displays the following prompt:

Enter query name or first character`-` for list --

Enter the name of the query to be compiled. To display and select from a list, enter the first few letters of the query name, followed by a hyphen (-); the system displays a list of queries whose names match your entry. To display and select from a list of all queries, enter a hyphen (-).

In the following screen, QB- was entered at the prompt:

```
                General Hospital Query/Table Compile Processor
                                                Fri Oct 15, 1993 10:20 am

Page:01                          SQL Queries ID (108)            ##=Current Choices
( 1) QB_EHH_TEST_PRIORITY
( 2) QB_TNF




Enter choices (e.g. 1,7,5-9) or '-'choices to remove--
                              end selection(NL)
```

Enter the option number of the query to compile.

- • To select multiple queries, enter the option number of each desired query separated by a comma (,).

- To select a range of queries, enter the option numbers of the first and last queries, separated by a hyphen (-).

- To deselect a previously selected query, enter the option number of the query preceded by a hyphen (-).

When you identify the queries to compile, the system displays the following prompt:

Run in `F'oreground or `B'ackground? (F/B) [F] --

Enter **F** or press ENTER to run the job compiling the query(ies) in foreground.

Enter **B** to run the job compiling the query(ies) in background.

When you complete this prompt, the system displays a screen representing your entries to the prompts:

```
                    General Hospital Query Compile Processor
                                               Fri Oct 15, 1993 10:20 am



  Compile components    : `Queries'

  Compile wildcard      : `QB-' queries selected

  Foreground/Background :  Foreground



 Continue? (Y/N) [Y] --
```

At the bottom of the screen the system asks if you want to continue and compile the queries as identified. Enter **Y** or press ENTER to begin the process. Enter **N** to return to the *Enter query name or first character`-` for list --* prompt.

When you enter Y at the *Continue* prompt, the following prompt is displayed:

Processing ....

If you are running this process in foreground, the system displays the following message at the bottom of the screen:

Compile `Queries' started. Please wait!

If you are running this process in background, the system returns to the Enter query name or first character`-` for list -- prompt.

Whether the process is running in foreground or background, when the system finishes compiling the selected queries, the following message displays:

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Compile `Queries' COMPLETED!

When the process is complete, you can check to ensure the compile was successful using the Compile Query Log function, located on the Transaction Logs menu under Utilities on the DBA User Menu.

NOTE: If the Compile function fails for any reason, the COMPILE lock remains set to *Yes.* After you resolve the compiling problem, you need to change the setting of the COMPILE lock to *No* and rerun the Compile Queries function.

Data Integrity Checker

This option displays a menu of functions you can use to verify the structure of your STAR Vista Reporting database. These functions do not affect data residing on your STAR system.

When you access this option the system displays the following menu of functions:

```
                       General Hospital Processor
                                              Fri Oct 15, 1993 01:51 pm
 Input Options


           Option No.  Option
           ----------------------------------------
              1        SQL Integrity Check
              2        SQL Integrity View
              3        SQL Integrity Fix
              4        SQL Integrity ABORT


 Enter option number--
```

Each of the functions on this menu are explained below.

NOTE: Run these functions to check and repair the integrity of your STAR Vista Reporting tables and queries.

- when you install a new version of software on your system

- when you upgrade your system

- following any other system errors that might cause the STAR Vista Reporting database to become suspect

SQL Integrity Check

This function evaluates the integrity of the STAR Vista Reporting queries and tables. This utility provides you with a tool to help you protect the components of your STAR Vista Reporting data dictionary.

This function only identifies integrity errors; the function does not fix errors. Errors must be repaired using the SQL Integrity Fix option.

NOTE: This function *does not* require that all SQL users log off the system.

When you access this function, the system displays the following prompt:

>   *Enter `B'ackground, `F'oreground? (B/F) [B] --*

Enter **B** or press ENTER to run the integrity check as a background process. Enter **F** to run the integrity check in the foreground at this workstation.

If you enter B to run the integrity check in background, the system displays the following prompt:

>   *Background SQL Integrity `Check' will be initiated! Continue? (Y/N) --*

Enter **Y** to begin the integrity check. Enter **N** to exit the function.

If you enter F to run the integrity check in foreground, the system prompts you for the password and exits the function. The system begins to evaluate the integrity of the STAR Vista Reporting tables in background. Refer to Figure 1.3 for an example Integrity Check report.

Figure 1.3 STAR SQL Integrity Check Report

```
                          STAR SQL Integrity Check
          Started 07/03/95 @ 11:53.07 AM, finished 07/03/95 @ 12:21.27 AM
                        Printed on 01/12/94 at 11:11 AM

 Type    Table or column                                    # errors
 ----------------------------------------------------------------------

 DROP    TABLE index -3                                         1
         TABLE index -8                                         1
 FKEY    TABLE.TABLE_SCHEMA                                     1
 REQD    TABLE.TABLE_SCHEMA                                     1
 End (4/4)>

            *** NOTE: REQD errors cannot be automatically fixed ***
```

SQL Integrity View

This function displays the report showing integrity errors detected when the SQL Integrity Check and Integrity Fix functions were run.

When you access this function, the system checks to ensure that the SQL Integrity Check function has finished running. If the function has not finished processing, the system displays an error and exits this function. If the SQL Integrity Check function has finished processing, the system displays:

- A summary of the error corrections found from the last run of the Integrity Check or Integrity Fix functions, or

- The text *Nothing to Print* if the system did not detect any errors.

Press ENTER to return to the menu.

NOTE: Any "REQD" errors displayed on the report must be corrected by McKesson. If the report displays "REQD" errors, place a support call to your McKesson support representative.

SQL Integrity Fix

This function repairs errors encountered when the SQL Integrity Check function was run. All users must be removed from the system before you can run this function. The system remains unavailable while this function is processing.

NOTE: This function automatically repairs bad index rows; errors caused by missing required columns must be fixed manually by McKesson personnel.

When you access this function, the system performs the SQL Integrity Check process. By running this function, the system can create an accurate, up-to-date list of all errors encountered since the SQL Integrity Fix process was last run; thus, the system can repair all appropriate integrity errors.

When you begin this function, the system checks to ensure that no other users are currently accessing the STAR Vista Reporting system. The system displays the following screen:

```
                General Hospital SQL Integrity Fix Processor
                                         Fri Oct 15, 1993 02:46 pm
      **                                                      **
      **      All `SQL' USERS MUST BE REMOVED FROM THE SYSTEM BEFORE   **
      **      THE SQL INTEGRITY FIX CAN BE RUN!                    **
      **                                                      **
              Continue when the above procedure is complete!

  Press NL --
```

When you press ENTER to the prompt, the system displays the following prompt:

   Background SQL Integrity `Fix' will be initiated! Continue? (Y/N) --

Enter **N** to the prompt to exit the function without repairing integrity errors.

Enter **Y** to begin repairing integrity errors within the STAR Vista Reporting tables. The system sets the SYSTEM lock to Yes and displays a message to the console. The system does not permit users access to the STAR Vista Reporting system while the SYSTEM lock is set to Yes.

While the process is running in background, a DBA user can determine whether the system has completed the process using any of the following methods:

- Check the System Lock Maintenance function. If the SYSTEM lock is set to *No*, the process is complete.

- Use the Job Watch utility. If SQLI- jobs are not executing, the process is complete.

- Use the Global Utility Access for an END_DATE_TIME node. At the Global Option prompt, enter **PS**. At the *Begin --* prompt, enter **SQLIC**. At the *End --* prompt, enter an apostrophe ('). Press ENTER until the system does not display any additional prompts. If the background Integrity Check is complete, the system displays a message similar to the following:

    SQLIC("CHECK","END_DATE_TIME") = "MM/DD/YY @HH:MM:SS am

    If the END_DATE_TIME node is blank, the process is not complete.

When running the Integrity Check process in Foreground, you can halt the process by pressing the space bar on your keyboard. The system displays the following prompt:

Halt Integrity Checker?

Enter **Y** to halt the Integrity Check process. Enter **N** to continue the process.

SQL Integrity ABORT

This function enables you to cancel any integrity process currently running in the background.

When you access this function the system displays the following prompt:

SQL integrity checker will be `ABORTED' in ID NNN. Continue? (Y/N) --

Enter **N** to exit the function without cancelling the integrity check process. Enter **Y** to end the processing of the background SQL integrity check function; the system displays the following message:

SQL Integrity Checker will be halted in ID NNN in 60 sec.

Sixty seconds after the system displays this message, the system halts the integrity process running in background.

Delete Multiple Queries

This function enables you to delete multiple queries at one time, reducing the effort required when removing a large number of queries from the system.

NOTE: This function can handle up to a maximum of 30 queries per session.

When this function is selected from the DBA Maintenance Processor screen, you are prompted to enter a password before proceeding with the deletion process. This password is the equivalent to the DBA password with all the same rights and privileges. Do not authorize a general SQL user to delete multiple queries.

After the password has been entered, the system displays the following prompt:

Enter query name or pattern to match--

Enter the beginning characters of the query name(s) followed by a dash(-). A list of queries matching the pattern match entered is displayed, as shown in the following example.

```
Page:01                         Defined Queries            ##=Current Choices
(  1) QBHP_LMIP_LABOR_STATS        (19) QBKB_PFS_INSERT_COLAGCY
(  2) QBKB_PFS_AR_BY_FC1           (20) QBKB_PFS_INS_PAID
(  3) QBKB_PFS_BADDEBT_ADDL        (21) QBKB_PFS_MC_ATB_AR
(  4) QBKB_PFS_BDNOTE_FILE         (22) QBKB_PFS_MC_ATB_PA
(  5) QBKB_PFS_CASH_DTL            (23) QBKB_PFS_PELL_ADJ
(  6) QBKB_PFS_CHARGE_REV          (24) QBKB_PFS_PELL_CASH
(  7) QBKB_PFS_COLAGCY_INTN        (25) QBKB_PFS_RPM_ADJ
(  8) QBKB_PFS_CREATE_BDXTRA       (26) QBKB_PFS_RPM_CASH
(  9) QBKB_PFS_CREATE_COLAGCY      (27) QBKB_PFS_RUN_CA_ADDL
( 10) QBKB_PFS_CREDIT_BALANCE_RPT  (28) QB_0518_BAB
( 11) QBKB_PFS_DEPT_RB_CHGS_TRANS  (29) QB_2598_CEN_DLY_ADM
( 12) QBKB_PFS_DOWNLOAD_FARATBA    (30) QB_2598_CEN_DLY_CAD
( 13) QBKB_PFS_DOWNLOAD_UNBILLED   (31) QB_2598_CEN_DLY_CDS
( 14) QBKB_PFS_DRG_REV_CODE        (32) QB_2598_CEN_DLY_DIS
( 15) QBKB_PFS_FC_CASH             (33) QB_2598_CEN_DLY_MNP
( 16) QBKB_PFS_FIM_LIST            (34) QB_2598_CEN_DLY_REPORT
( 17) QBKB_PFS_IMPORT_BDXTRA       (35) QB_2598_CEN_DLY_REPORT_RERUN
( 18) QBKB_PFS_INSERT_BDXTRA       (36) QB_2598_CEN_DLY_TBL_BATCH

Enter choices (eg. 1,7,5-9), `-`choices to remove--
              end select(NL)   next pg(/ or PG DN)   Search(TAB)
```

Queries can be selected for deletion by entering and highlighting the number of the queries to be deleted.   A range of queries can also be selected. In this example, queries 1-10 have been selected and marked for deletion. After the queries have been selected, you have the option to remove or deselect a query by entering a hyphen (-) and the number of the query. This action removes it from the list of queries to be deleted. The user can page down to view, and mark for deletion, additional queries that matched the selection criteria.

When the selection of queries to be deleted is complete, a list of Queries Selected For Deletion is displayed. You are prompted to verify that you want to delete the selected queries from the current ID, as shown in the following example.

```
Page:01                    Queries Selected For Deletion      ##=Current Choices
( 1) QBHP_LMIP_LABOR_STATS
( 2) QBKB_PFS_AR_BY_FC1
( 3) QBKB_PFS_BADDEBT_ADDL
( 4) QBKB_PFS_BDNOTE_FILE
( 5) QBKB_PFS_CASH_DTL
( 6) QBKB_PFS_CHARGE_REV
( 7) QBKB_PFS_COLAGCY_INTN
( 8) QBKB_PFS_CREATE_BDXTRA
( 9) QBKB_PFS_CREATE_COLAGCY
(10) QBKB_PFS_CREDIT_BALANCE_RPT




Are you sure you want to delete these queries in `ID 154` (Y/N)--
                               end select(NL)
```

Enter **Y** to start the deletion process or **N** to exit the screen without deleting any queries. If Y is entered and the query deletion process begins, a message similar to the following is displayed on both the screen and console log:

QUERY QB_HBOC_DELETE_TEST5 DELETED BY EMPLOYEE #33554 FROM ID 154

These transactions are also recorded in the standard SQL transaction logs for security and monitoring purposes.

When the routine is finished deleting all the specified queries, the system returns you to the previous menu.

Display Query Batch Jobs

This function displays information on all queries in the batch queue. The system displays queries with a status of Running, Waiting to Run, and Opening the Query.

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When you access this function the system displays a screen similar to the following:

```
            General Hospital Display Query Batch Jobs Processor
                                           Tue Jul 05, 2011 4:15 pm
                    Batch query queue status is - Waiting for a task.

        Query Name                     Start Date/Time        Queue Status
           Start Rule                  Device Name            User Name
   ( 1) QB_DMW_TEST_14                    07/05/2011 200 pm     Waiting to run
          ALL                         WERNERD               HBO_DBA
   ( 2) QB_DMW_TEST_15                    07/05/2011 300 pm     Waiting to run
          ALL                         WERNERD               HBO_DBA
   ( 3) QB_DMW_53_2491                    07/05/2011 300 pm     Waiting to run
          ALL                         HBOC                  HBO_DBA
   ( 4) QB_BKB_TEST_TABLES_50_BATCH       07/05/2011 340 pm     Waiting to run
          ALL                         SQLDEMAND             HBO_DBA
   ( 5) QB_DMW_TEST_16                    07/05/2011 400 pm     Waiting to run
          ALL                         WERNERD               HBO_DBA
   ( 6) QB_DMW_TEST_UNIX_REPORT_BATCH     07/05/2011 426 pm     Waiting to run
          ALL                         SQLDEMAND             HBO_DBA
   ( 7) QB_DMW_TEST_17                    07/05/2011 500 pm     Waiting to run
          ALL                         WERNERD               HBO_DBA
   ( 8) QB_DMW_53_2491                    07/05/2011 500 pm     Waiting to run
          ALL                         HBOC                  HBO_DBA
   Display only!  Press NL to continue --
                        next pg(/ or PG DN)  Search(TAB)
```

At the top of the screen the system displays the status of the batch query queue. Beneath this the system lists all queries in the queue chronologically by the date and time they entered the queue. For every query in the queue, the system displays the time at which the query is scheduled to run and the current status of the query. Starting with Vista Release 5.3, a second line is also displayed with the Start Date Rule, the output Device Name and the User Name for the user that submitted the query.

Force Results to Spooler

This parameter enables you to save query results generated in the background to spooler files for later reprinting if the printer is offline or out of paper. While this can eliminate having to re-execute queries, careful consideration needs to be given to your system's available disk capacity. The parameter's initial setting is No.

When you access this function, the system displays the following prompt:

> *Force query results to be saved to spooler (Y/N) [N]--*

When you set the parameter to No:

When a query is executed, and the parameter is set to No, the system displays the following prompt:

> *Spool this Query to hardcopy? (Y/N) [N]--*

If you enter Y for Yes, the query prints without spooling to a file. If the printer is not in use, the system prints the query. If the printer is unavailable or offline, the query needs

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to be re-executed. The system creates a spoolfile only when the printer is unavailable because it is in use.

If you enter N for No, the system does not print the query, but displays an additional prompt for you to select the spooler name.

> *Enter spooler name or first letters '-'--*

Enter the spooler name or perform a table lookup and make your selection. The system creates a spoolfile for the query, except for queries that are downloading or uploading to a UNIX file. See "EXPORT AND IMPORT METHODS" on page 5-33 for information on importing/exporting data to a UNIX file.

When you set the parameter to Yes:

When you set the parameter to Yes, forcing the system to save the query results to a spooler file, the system automatically creates spooler files for every query you execute in the background. This eliminates having to re-execute queries when the printer is unavailable or out of service. You can recover the queries using the Output Management (spooler) system.

WARNING: Before setting this parameter to Yes, consult with your Information Systems department to confirm that there is enough storage space on the system to accommodate the volume of daily SQL activity. A Yes setting means the system creates a spoolfile for every query that is executed as a background process. If the storage space reaches a minimum level, the system could halt or crash.

QRE Host Devices Update

This option allows you to add STAR reports for QRE. For QRE Professional® to recognize and use STAR Spooler reports for output, you must add the reports to STAR Vista Reporting as Logical Devices via the QRE Host Devices Update utility. To make STAR reports available for use by QRE Professional, login to STAR and access:

STAR System Management > SQL DBA Menu > DBA Maintenance Functions > QRE Host Devices Update

If prompted, enter a password.

The following prompt is displayed:

> *Enter report name or first letters and a dash (-) --*

Enter the report name to be added as a logical device or enter the beginning letters of the report name and a hyphen (-) to display a list from which to choose. After you enter a report (or select it from the list), the following prompt is displayed:

Update QRE Host Devices? (Y/N) [N] --

Enter **N** to exit without updating devices.

Enter **Y** to add the report as a logical device. If you enter Y, the report is added, and
the following message flashes on the screen before returning to the previous menu:

QRE Host Devices have been updated

NOTE: As necessary, you can add new reports or update existing reports using this
utility to enhance your QRE Professional reporting capacity. The utility
overlays the existing Logical Device information in STAR Vista Reporting with
the updated information from the STAR Spooler report.

To remove a report/device from the Logical Devices table so that it is no longer
accessible by QRE Professional, access:

**SYSTEM MANAGER OPTIONS > TERMINALS/PRINTERS > LOGICAL DEVICE
EDIT > enter DEVICE NAME**

The following screen is displayed:

```
              LOGICAL DEVICE EDIT  KB_SQL Vx.x
                        Device Name

 Device name: _____


              Select, Insert, Delete Device


     *10
      2-W
      SQLDEMAN


  LOGICAL DEVICE NAME

 help=F1      enter=Enter    ins=F11      del=F7       skip=F4   keys=F3
```

Select the device to be deleted and press **F7**.

Query PC Download/Upload

This option enables you to copy EZQ or SQL queries from a PC to the host or from the
host to a PC. You must be running STAR Vista Reporting from a PC running
McKesson's PC Director software to use this option.

You can only copy up to 36 queries at one time using this function. When downloading,
you select the queries to copy to a PC. When uploading, however, you are not given
this option: the system copies all (or the first 36) queries from the selected drive to the
host.

The system uploads queries to the current ID. If a query with the same name exists, the system deletes the existing query and overlays it with the new query. You must compile uploaded queries before you can execute them.

You cannot use multiple diskettes for this function. If the system is downloading to a diskette on the PC and there is insufficient room for all selected queries, the system aborts the process.

You cannot perform this process if:

- Your system is currently executing an Upgrade or the Query Transfer ID to ID function.

- The System-Wide Locks for *System* or *Compile Queries* are set to *Yes*.

If one of the selected queries to be downloaded is locked, the system does not download any of the queries.

When you access this function from a PC using the PC Director software, the system displays the following prompt:

> *Select (D)ownload or (U)pload file --*

Enter **D** to download one or more queries from the host to the PC. Enter **U** to upload one or more queries from the PC to the host. These procedures are explained separately below.

Downloading Queries

If you enter D to download queries, the system displays the following prompt:

> *Enter query name(s), `-' for list --*

Enter the name(s) of the queries you want to download, or enter a hyphen (-) to display and select from a list of queries. You can download up to 36 queries at a time.

After you select all desired queries, the system formats each query so that it may be downloaded, displaying the following message:

> *Creating export file! Please wait!*

When the system finishes formatting the queries for downloading, the following prompt is displayed:

> *Enter destination PATH --*

Example Path - C:\TEMP\

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Enter the designator for the path to which you want to download the selected queries. If you are downloading the queries to a diskette, the diskette must be formatted.

The system then displays a message as it downloads the export file. When the system finishes downloading the export file, the following message displays:

    Download queries complete!

The system then returns to the DBA Maintenance Processor.

The system names the downloaded query SQLQUERY.001. If you want to download additional queries to the same disk you must first rename this file.

Uploading Queries

If you enter U to upload queries, the system displays the following prompt:

    Enter PC PATH --

Example Path - C:\TEMP\

Enter the designator for the drive containing the queries you wish to upload to the host. The system then displays the following message:

    Initializing temporary global

This message explains that the system is deleting the current contents of the temporary storage area (global) to make room for the queries you are going to upload.

The system then displays the following message as it uploads the SQLQUERY.001 file from the selected drive:

    Uploading 'path entered'\SQLQUERY.001 from PC!

The system uploads the query from the PC's drive. When the system finishes uploading the file, the following message displays:

    Query upload complete!

The system stores the uploaded query in a temporary storage area (global) on the CPU. When this is complete, the system displays the following message:

    SQL import file creation complete!

The system then displays the following prompt:

    Press NL for list of queries contained in import file --

Press ENTER to display a list of queries stored in the temporary storage area.

The system displays a screen similar to the following:

```
                General Hospital Query Upload Function Processor
                                               Thu Dec 01, 1994 03:23 pm


QQ_HBO_ROUTINE_NAME
QTR_ALTER_VIEW_COMMAND
QTR_COMMENTS
QQ_HBO_DENSITY_VALUES










Total = 4 Import queries into SQL editor? (Y/N) --
```

Enter **Y** to place the uploaded queries into the SQL system. You can then modify the queries as needed. Then compile and run them. Enter **N** to exit the function without copying the uploaded queries into the SQL system.

If you enter Y, the system displays the following message:

> *Importing queries! Please wait ...*

The system copies each displayed query into the SQL system. When all displayed queries have been successfully copied, the system displays the following message:

> *Query import complete!*

The system then returns to the DBA Maintenance Processors menu.

Query Transfer ID to ID Maint

This function enables you to establish and maintain the parameters for transferring queries from ID to ID.

You must first sign on to the ID from which the query transfer originates. For example: if you want to transfer a query from ID 2 to ID 1, you must sign on to ID 2.

When you select this option from the SQL DBA Menu, the following summary screen is displayed:

```
         General Hospital Query Transfer ID to ID Maintenance Processor
                                              Tue May 05, 1992 08:47 am

 Page:01                        Destination ID Groups
         Description                    Source ID  Destination ID
 ( 1) SQL TRANSFER - LIVE ID to TEST ID     1            2     ** Disabled**
 ( 2) SQL TRANSFER - TEST ID to LIVE ID     2            1




 Enter option number or Add(A)--
```

This screen summarizes the Query Transfer ID to ID parameter(s) that have been previously defined. An option number, the description, source ID, and destination ID of the parameter displays. You can edit an existing parameter or add a new one.

*** Disabled *** displays when the Transmit Allowed? field is set to *No* in the Query Transfer ID to ID Maintenance Processor.

To edit an existing parameter, select the option of the parameter you want to edit and the following screen is displayed:

```
         General Hospital Query Transfer ID to ID Maintenance Processor
                                              Tue May 05, 1992 08:47 am

  1 Code   2 Group Name                      3 Dest IDs   4 Source IDs
    0         SQL TRANSFER - LIVE ID to TEST ID     2            1
  5 Transmit Allowed?
    Yes




 Enter field number or '/' starting field number--
```

Field Explanations

1. CODE (DISPLAY ONLY)
The code is automatically updated by the system and cannot be edited.

2. GROUP NAME (30-C-R)

Enter a free-form description that explains the type of transfer of this parameter. The group name that you assign cannot already exist in the same ID.

3. DEST IDS (SPECIAL FORMAT)

The destination ID is the ID where the query is transferring to. You must enter a valid ID number that is different than the ID number specified as the source ID. The destination ID needs to contain the SQL software that enables you to access the queries after the transfer.

4. SOURCE IDS (DISPLAY ONLY)

The source ID number is the ID from which the query is transferred. This field is automatically filled with the ID number you are currently logged on to and cannot be edited.

5. TRANSMIT ALLOWED? (1-A-R)

This field determines whether or not the system permits the query to be transferred from the source ID to the destination ID. Enter **Y** to permit the transfer. Enter **N** to disable the query transfer.

After you complete all fields, you are prompted to accept the screen. You can edit any field, delete this parameter, or add this parameter to the system.

When you accept the screen, you are returned to the summary screen shown above. You can continue editing or adding transfer maintenance parameters for this source ID. If you want to add or edit a transfer maintenance parameter for another source ID, you must exit the SQL environment and log on to the desired source ID.

To add another transfer maintenance parameter, enter **A** at the prompt on the summary screen.   Complete the fields as described see the Query Transfer ID to ID Maintenance function.

When you have entered one or more transfer maintenance parameters, you can transfer queries with the Query Transfer ID to ID option from the SQL DBA Menu.

Report Maintenance

The Reports Maintenance function enables you to add and edit information about reports in the system, including:

- when the report prints (on demand, immediately, or at a specified time)

- where the report is sent (to a printer(s) or a fax)

- whether the report requires special forms

- if the report can be downloaded to a PC

MENU OPTIONS

- the security level required to demand print the report

- whether the report uses printer-based overlays

- what distribution list and cover page to use for a faxed report

When you select this function the system displays the following prompt:

Enter report name to add/edit or first letters and a dash (-) --

Enter the system name of the report or use a hyphen (-) to display and select from a table of report names. If the report does not exist the system displays the following prompt:

REPORTNAME Does not exist   Add this report (Y/N) ?--

Where REPORTNAME is the name of the report you identified at the preceding prompt. Enter **Y** to begin defining this report. Enter **N** to return to the preceding prompt.

When you identify the report you want to add or edit, the system displays the following screen:

```
               General Hospital Reports Maintenance Processor
                                            Wed Jun 16, 2004 03:55 pm

  1 Report Name          2 Description
    %ERTRAP                 SPOOLER ERROR TRAP-DONT DELETE
  3 Base Report          4 Release #       5 Owner
    No
  6 When Printed         7 Report Status   8 Retention Days
    Demand                 Active            7 days
  9 Restart Method      10 PC Download     11 Security Level
    Demand                 No                0
 12 Special Form        13 Print Control   14 Page Index  15 Max # Pages
                                             Yes
 16 List Update Routine 17 Distribution List           18 Cover Page

 19 Printer     Description           Copies  Default type  Start time End time
    %MVXLIP     Landscape mode         1       Demand        10:00AM    01:00PM
    1N          1 North                1       Both          01:01PM    09:59AM


 Enter field number or '/' starting field number--
```

Field Explanations

1. REPORT NAME (DISPLAY ONLY)
This field contains the system name of the report.

2. DESCRIPTION (30-AN-R)
This field identifies the text name of the report.

3. BASE REPORT (1-A-R)
This field identifies this report as being available in the base product. Enter **Y** if the report is available in the base product. Enter **N** if the report is available only on this system. The default is Y.

4. RELEASE # (5-N-R)
This field identifies the release number of the base product in which this report is available. This system does not allow you to access this field unless you entered Y in the Base Report field.

5. OWNER (1-A-O)
This field identifies the product code that *owns* this report. Enter the code of the product from which this report is available.

6. WHEN PRINTED (1-A-R) or (5-AN-R)
This field determines when the report begins to print. Enter **I** to cause the system to begin printing this report immediately after it is generated. Enter **D** to cause the system to place this report into the Demand Print queue after it is generated. To cause the system to hold this report for printing until a specific time, enter the time in the HH:MM format. The default is I.

NOTE: To download a report to a PC, this field must be set to Demand. In addition, the Report Status must be Active.

7. REPORT STATUS (1-A-R)
This field determines the status of the report in the system. Enter **A** to make this report active in the system. Enter **I** to make this report inactive in the system. The default is A.

NOTE: Reports must have an Active status to be faxed or downloaded to a PC.

8. RETENTION DAYS (2-AN-R)
This field determines how long after the report is generated it is to be retained in the system. When you access this field, the following prompt is displayed:

   # of retention days, or `D`elete after print [0]--

Enter the number of days to retain the report in the system after it is generated. The minimum number of retention days is 0 (default) and the maximum number of retention days is 45. Enter **D** to delete the report from the system immediately after it is printed.

9. RESTART METHOD (1-A-R)
This field determines alternative demand print methods. The only method currently supported is restart on demand (**D**).

10. PC DOWNLOAD (1-A-R)
This field enables the user to download the report. Enter **Y** to enable this option; enter **N** if this ability is not to be enabled. The default is N.

11. SECURITY LEVEL (2-N-R) or (30-AN-R)
This field determines the minimum security level to demand print a report. You can enter a number between 0 and 99 or enter an *at* (@) sign, followed by a logical MUMPS expression. The standard security level variable must be established prior to choosing the Spooler menu.

12. SPECIAL FORM (10-AN-O)
This field identifies any special paper forms on which this report prints. Enter the name of the form or a hyphen (-) to display and select from a list of report forms. Special forms cannot be used with fax reports at this time.

13. PRINT CONTROL (DISPLAY ONLY)
This field contains any print control sequences established for this report. The system sends print control sequences to appropriate printers before, during, and/or after printing the report. For more information about print control sequences, see the Print Control Maintenance section in the *MultiSTAR Software Environment Operations Guide*.

14. PAGE INDEX (1-A-O)
This field determines whether the system builds a page index when this report is spooled. Enter **Y** to cause the system to build a page index, thus making the report immediately available to the View Spooled Reports function. Enter **N** if no page index is desired. The default is N.

If this field is set to **N** (for No) and the report is sent to a fax, the fax download manager builds the page index in order to determine if the page limit for the fax server has been reached.

15. MAX # PAGES (4-N-O)
This field identifies the maximum length of this report in number of pages. When generating the report, the system counts the pages as it generates them, comparing the count to this number. When the page count for the report reaches this number, the system suspends the job, thus preventing abnormally large spooler files from being created. The default is 300 pages.

16. LIST UPDATE ROUTINE (17-C-O) or (TABLE LOOKUP-O)
This field identifies the name of a routine, specified in the application, that dynamically builds the fax distribution list for the report. The routine name must be preceded by a caret (^). You cannot edit this field if a Distribution List is specified.

Enter the list update routine or select a list update routine from a list. Which list update routines display in the list is determined by the contents of the Owner field.

The system uses the distribution list built by the list update routine specified here only if the report is set up in the When Printed field to print Immediately or at a specified time. If the report is faxed using Demand Print (that is, the When Printed field is Demand) or via the View Spooled Reports function, this routine is not used.

17. DISTRIBUTION LIST (8-AN-O) or (TABLE LOOKUP-O)
This field specifies a distribution list to use for fax distribution for the report. Select a distribution list. You cannot edit this field if a routine is specified in the List Update Routine field.

The system uses the distribution list specified here only if the report is set up in the When Printed field to print Immediately or at a specified time. If the report is faxed using Demand Print (that is, the When Printed field is Demand) or via the View Spooled Reports function, this routine is not used.

Fax distribution lists are maintained by the Fax Administrator.

18. COVER PAGE (4-C-O) or (TABLE LOOKUP-O)
This field specifies a cover page to use when faxing a report. Enter the cover page code or enter a hyphen (-) and select a cover page from a list. The cover page specified here overrides any cover page defined in the distribution list. If you do not specify a cover page, the default system cover page is used.

Fax cover pages are maintained by the Fax Administrator.

Printer Assignments

19. NAME DESCRIPTION COPIES   DEFAULT TYPE   START TIME   END TIME
This field defines the printer assignments for the report. When you access this field, a scrolling screen is displayed at the bottom of the Reports Maintenance screen.

NAME (8-AN-R) OR (TABLE LOOKUP-R)
This field identifies the name of the logical printer to be assigned to this report. Enter the printer name or a hyphen (-) to display and select from a list of logical printers.

DESCRIPTION (DISPLAY ONLY)
This field contains the printer description. The printer description is defined in the Printer Maintenance function.

COPIES (2-N-R)
This field identifies the number of copies of the report to create on the defined printer. The default is 1.

NOTE: This field is not supported for fax queue processing. Fax processing sends one copy of a faxed report per destination.

DEFAULT TYPE (1-A-O)
This field is used to determine printers to which output can be directed.

If you press ENTER, this field displays DEMAND/BATCH. The printer is included on the list of available alternate printers. If the report runs in batch, the report prints at this printer. If the report is printed using the Demand Print function, the user can select this printer from a list of available alternate printers.

If you enter N (for None), there is no default printer. If the report is printed using the Demand Print function, this printer is included on the list of available alternate printers.

If you enter B (for Batch), the report prints at this printer when the report is run in batch mode only.

If you enter D (for Demand), when a user runs the report as a demand report, they can select this printer from a list of available alternate printers.

START TIME (TIME-C)
This field and the End Time field determine the times during which the printer is available for printing this report. This field is required if an End Time is entered. If this field is left blank, the printer is always available.

END TIME (TIME-C)
This field and the Start Time field determine the times during which the printer is available for printing this report. This field is required if a Start Time is entered. If this field is left blank, the printer is always available.

After you complete the fields the system asks if you want to accept your entries to this screen. Enter **Y** to accept the current contents of the screen. Enter **N** to return to the screen without accepting your changes.

Reset SQL

This option is used by the DBA to erase all pending transactions that might still be logged into temporary files following a system crash or abnormal shutdown. Examples of such transactions include query compilations and table definitions.

> **WARNING:** **All users need to be out of the SQL environment when this utility is used. All SQL foreground and background jobs must be stopped. Any work in progress when this routine is run may be lost otherwise.**

The Reset SQL utility needs to be used whenever a system crash occurs or the system is shut down with users still working in the SQL environment.

There are significant differences between Rollback and Reset SQL. The Rollback function did some basic clean up primarily related to interactive sessions and globals. Reset SQL affects more of the system. **Everything must be stopped** before running Reset.

Before running Reset SQL, you must:

- Be sure all interactive users are out of SQL

- Lock the Background (Halt Query) Queue

- Halt the Background Statistics

- Halt all open ODBC Connections

  Be sure all background jobs have been completed.   Ensure there are no queries
  in the Halt Query queue with a status of **Running**. Ensure there are no SQL or
  BRS program names listed under **Examine Job Status** (Job Watch).

What happens if I forget a step?

- Interactive users are kicked out of the system. Their query results are lost, their
  most recent editing changes may be lost.

- Queries running in the background are lost and any data produced is suspect.
  Queries waiting to run are not impacted.

- Statistics on a compiling table are suspect. Tables waiting to compile are not
  impacted.

- Connections between ODBC clients and STAR SQL Server are lost.

When you invoke the Reset SQL utility, the system displays an initial warning
message:

```
            General Hospital SQL Rollback Transactions Processor
                                              Thu Oct 14, 1993 10:40 am

                          WARNING

        This utility clears all incomplete transactions.  All SQL
        users must be off the system in order to run this routine.
        If SQL users remain on the system during a rollback, any
        query or table edits in progress will be lost.




 Are all SQL users off the system? (Y/N)--
```

If you want to proceed with the rollback, ensure all users are off the system. Enter **Y**
at the prompt to initiate the rollback procedure. When it is complete, you are returned
to the SQL DBA Menu.

Security User Report

This option creates a report containing information about the users and user groups in
the system. For each STAR Vista Reporting user or group, the Security User Report
displays the user's ID, the group the user is in, the user's password, whether the user
can access EZQueries only, and whether the user has edit rights to queries.

Since user passwords are encrypted, you can only view passwords in this report.

When you select this option, the system prompts you for the DBA password. After you enter the password, the system displays the following prompt:

Sort by `U'ser, or `G'roup name (U/G) [U] --

To sort the report by user, enter **U** or press ENTER.

To sort the report by user group, enter **G**.

The system then displays the following prompt:

Hardcopy (Y/N) [N] --

To display the Security User Report on your screen, enter **N** or press ENTER. To create a hard copy printout of the report, enter **Y**; the system displays a list of printers to which you can send the report. Enter the option number of the printer on which the report prints. The system displays *Printing!*, and returns to the DBA Maintenance Processor menu.

If you display the report on your screen, the system displays the report one screen of information at a time, as in the following example:

```
                              STAR SQL
                         Security User Report
                    Printed on Mon Dec 19, 1994 11:03 am          Page 1
                         Sorted by: User

   User                          Group
       Password                              EZQ Only    Edit Queries
   --------------------------------------------------------------------------
1  ADAMS, MITCH B.               SYS_MGRS
       82455                                  No          No

2  COOPER, TOMMY                 USERS
       REPOOC                                 No          No

3  DAVIS, JANET                  USERS
       POOKIE                                 No          No

4  EDWARDS, SIMONE               DBAS
       254330909                              No          Yes




Press NL--
```

The above example is sorted by user. Press ENTER to display the next screen of the report. At the end of the report, the system displays the total number of users and *End of report!*. When you press ENTER to this screen, the system returns to the DBA Maintenance Processors menu.

Figure 1.4 contains an example hard copy printout of the Security User Report. This example is sorted by group.

Figure 1.4 Security User Report

```
                              STAR SQL
                          Security User Report
                    Printed on Mon Dec 19, 1994 11:15 am          Page 1
                            Sorted by: Group
     User                      Group
     Password                              EZQ Only    Edit Queries
    -------------------------------------------------------------------------
 1   EDWARDS, SIMONE            DBAS
       254330909                              No           Yes
 2   MORRISON, WALTER P         DBAS
       AMY                                    No           Yes
 3   SMITH, NAOMI ALEXI         DBAS
       MYPASS                                 No           No
 4   ADAMS, MITCH B.            SYS_MGRS
       BLUESUEDE                              No           No
 5   FORRESTAL, GWEN C.         SYS_MGRS
       POE                                    No           No
 6   COOPER, TOMMY              USERS
       REPOOC                                 No           No
 7   DAVIS, JANET              USERS
       ROOKIE                                 No           No
Total Users = 7
                            End of report!
```

STAR System Examine Job Status

STAR Vista Reporting provides a modified MSE job watch for SQL jobs only. This enables the DBA to monitor the queries that are running as well as the ODBC connections. The DBA can look at any and only jobs that begin with SQL or BRS. This helps in monitoring the ODBC connections to determine if the connections are still viable or if the user has dropped the connection inadvertently.

To access the enhanced MSE job watch from the SQL DBA Menu, select DBA Maintenance Functions and then the STAR System Examine Job Status menu option. After entering the DBA password, the following prompt is displayed:

Program(s) to watch (XXX,YYY,ZZZ) , [BRS,SQL]

If the DBA presses Enter and accepts the default, only jobs that begin with BRS or SQL are displayed. The DBA also has the option to enter other program names in order to monitor other jobs that are running on that CPU.

Below is a screen display of the modified MSE job watch.

```
Thu Jun 23, 2005 08:30 am               208 Jobs Active (48/160), 392 Jobs Free
 JOB   WHO PROGRAM   STATUS TIME      ELAPSED B   ID    PID  ODV  PDV  CDV DEVICES
  58       SQLV5     HANG   15 707:41:10 1  65 9889   19
  84       SQLV5     HANG   18 707:41:10 1  55 9933   19
  86       SQLV5     HANG    5 707:41:12 1  50 9941   19
  87       SQLV5     HANG   15 707:41:12 1  54 9942   19
  91       SQLV5     HANG    3 707:41:10 1  52 9946   19
  94       SQL0TCP   OPEN      707:41:10 1  65 9949   19
 123       SQLV5     HANG    6 707:41:01 1   9 9978   19
 165       SQL0TCP   OPEN      210:07:56 1   9 12221  388
 175       SQLV5     HANG   15 547:58:41 1  59 28653  270
 344       SQLV5     HANG   13 665:34:19 1 108 28053  315
 351       SQL0TCP   OPEN      665:34:19 1 108 28339  315
 498 *EHH SQLAEJS   EXEC       0:00:58      9 5030   218  218  218  218
 505       SQLV2UD   EXEC      20:22:55 1   9 28463  323
 520       SQLV5     HANG    5 693:17:03 1 230 17130  182




Program(s) to watch (XXX,YYY,ZZZ) [BRS,SQL]--
```

NOTE: For more information about each column on the report, see the Examining MultiSTAR Job Status section of the *MultiSTAR Software Environment Operations Guide.*

STAR System Job Status

This section is intended for people familiar with STAR System Management such as Administrators, Information Systems personnel, and Operations personnel. If you are unfamiliar with this function, contact your IS department for assistance.

When STAR Vista Reporting runs, various program names appear on the Examine Job Status screen. This status information is generally referred to as Job Watch. Below is a typical Job Status screen (some of the jobs related to SQL are numbers 84, 86, and 87, 91 and 94:

```
Fri Jun 24, 2005 12:16 pm               252 Jobs Active (95/157), 348 Jobs Free
 JOB   WHO PROGRAM   STATUS TIME      ELAPSED B   ID    PID  ODV  PDV  CDV DEVICES
  75       ATCHG     HANG    0 30:15:26:53 Y 131 9922   19
  76       ATCHG     HANG    2 30:15:26:52 Y 212 9923   19
  77 *J V %MUJPK    EXEC       0:00:41:39     0 10898  249  249  249  249
  79 *D P %UDE      *READ 3490  0:00:39:32     9 10939  257  257  257  257
  80       ATCHG     HANG    4 30:15:26:53 Y 111 9929   19
  81       ATCHG     HANG    0 30:15:26:52 Y 169 9930   19
  82 *N S %A1       *READ  167  0:00:38:13   131 11262  20   20   20   20
  83 *N P %UDE      *READ 2740  0:00:36:32   115 11287  271  271  271  271
  84       SQLV5     HANG   15 30:15:26:50 Y  55 9933   19
  85       ATCHG     HANG    4 30:15:26:53 Y 151 9934   19
  86       SQLV5     HANG    2 30:15:26:52 Y  50 9941   19
  87       SQLV5     HANG    2 30:15:26:52 Y  54 9942   19
  88       ATCHG     HANG   12 30:15:26:52 Y 124 9943   19
  89       ATCHG     HANG    1 30:15:26:49 Y  83 9944   19
  90       ATCHG     HANG    1 30:15:26:50 Y 158 9945   19
  91       SQLV5     HANG    0 30:15:26:50 Y  52 9946   19
  92       ATCHG     HANG    2 30:15:26:49 Y 184 9947   19
  93       ATCHG     HANG    1 30:15:26:49 Y 136 9948   19
  94       SQL0TCP   OPEN      30:15:26:50 Y  65 9949   19
```

Programs beginning with SQL or BRS are STAR Vista Reporting programs of some type. Here are some details.

BRSnnn
This is the M (MUMPS) program associated with your query. When a query is prepared, the SQL code is converted to M code during the build phase. The M program names begin with BRS. A job whose program name starts with BRS is executing a query.

Each query is assigned an M routine name when it is first compiled. The first query ever compiled on your system was assigned the number BRS1 and the system counts up from there. If your query is complicated enough to require more than one program (most are), the first program is BRS123, the second BRS123A, and then BRS123B and so on. If the query is very complex, the names continue into BRS123AA, BRS123AB and so on.

In the example above, job number 350 is executing a query.

To find out the BRS number for your query, select **Info** from the menu bar in the SQL Editor. The Query Information window displays the exact routine prefix name.

SQLxxxx
Any SQL program that does not begin with BRS, begins with SQL. A job beginning with SQL could be:

- A function called by a query

- A query setup or cleanup program

- A SQL user in the system (writing a query, for example)

- A SQL task not specifically associated with running a query

In the example above job 310 is a person in the SQL Editor.

SQLV3
DO NOT ZAP THESE JOBS! This is a program associated with the automatic scheduling of locking activities. The program ^SQLV3 manages locks and also controls a behind-the-scenes clean-up of "lost" SQL connections. It is common for this program to have an extended elapsed time.

SQLV5
DO NOT ZAP THESE JOBS! These jobs are the control programs (we call them taskers) for the SQL background queue. Queries written with commands to run sometime in the future (for example, tomorrow at 3:00 AM or every day at 10:45 PM) are controlled by these jobs. Since these jobs remain on the system as long as background queries are waiting to run, it is common for them to run for several days or weeks. This is OK.

The SQLV5 programs usually remain in a hang state; every 60 seconds the program checks to see if it is time to run a scheduled query. If yes, the query takes the job slot of the SQLV5 job until it finishes running, and then control is returned to the SQLV5 program. If it is not time to run a scheduled query, the SQLV5 job returns to a hang state for another 60 seconds. These jobs use almost no CPU resources.

SQL0TCP
DO NOT ZAP THIS JOB! This is the ODBC server *listener* program. If the server is configured and started, this routine remains on the system to listen for ODBC connection requests from PC clients.

SQLXTS
This routine appears when SQL tables are being compiled. Compiling a table is the process of analyzing the data in the table and setting statistics for that table. If a table contains statistics, queries are optimized better and run more quickly and efficiently.

SQLYnnn
These are the program names that correspond to queries that are running through an ODBC connection. Once these queries (created in Microsoft Access, Crystal Reports®, or another ODBC-compliant software package) reach the STAR system, they are assigned program names beginning with SQLY.

DO NOT ZAP SQL ROUTINES
It is normally a bad idea to ZAP a SQL job. There are ways to stop SQL jobs from running within the SQL system. Try these approaches first. If necessary, contact the hospital's STAR Vista Reporting Database Administrator or McKesson for assistance.

If it becomes necessary to ZAP a SQL job, the function, Reset SQL, needs to be performed as soon as possible afterward. Reset SQL is available on the DBA Maintenance Functions menu.

NOTE: For more information about each column on the report, see the Examining MultiSTAR Job Status section of the *MultiSTAR Software Environment Operations Guide.*

System Lock Maintenance

This function enables you to access the SQL utility to determine usage restrictions for STAR Vista Reporting system features. You can control access to certain SQL processing features, including:

- Background queue processing

- Compiling queries

- Compiling statistics

- Complete access to the system

- Access to the system by DBA users only

When you access this function, the system displays the current settings for each lock type.

```
                        Select System-Wide Lock

    Lock Type              Locked  Lock Begin              Lock End

   *BACKGROUND QUEUE        NO      06/17/2009@04:00 AM  06/17/2009@09:00 AM
    COMPILE QUERIES         NO
    STATISTICS              NO
    SYSTEM                  NO      06/28/2009@06:30 AM
    USER                    NO
```

To schedule automatic locking, access the Lock Status option from the System Manager Option Utilities menu or Locks option from the System Status menu. Select the specific lock to be updated. Scheduled Lock Begin and Scheduled Lock End times are displayed on the main screen.

```
                            Lock Status
    Lock type= BACKGROUND QUEUE_____
  Description= Restrict access to the Queue Manager functions_____
  Last set by= HBO_DBA_____      Date= 06/08/2009@09:02 AM_____
```

NOTE: The system lock can be set to "lock" in the future, but the system lock cannot be set to unlock automatically. Unlocking must be done manually. When the system lock is set, all SQL activity is halted.

The Lock History Report lists the history of set and clear operations for KB_SQL system locks. For more information, see .

View Console Log

This option allows you to view messages written to the MSE Console Log Printer online by using the View Console Log option within the Vista Reporting DBA Maintenance Processor. This can be helpful when troubleshooting Mumps program errors or Spooler errors.

To access the console log, select the View Console Log option. After entering your DBA password, a list of available dates is displayed.

The first column indicates the number of lines in each log.

```
                    General Hospital  Console Log Listing Processor
                                              Wed Jun 18, 2003 01:08 pm
SYSTEM 'CON' Output

63049 on Wed Jun 11, 2003  (T-7)
78052 on Thu Jun 12, 2003  (T-6)
67301 on Fri Jun 13, 2003  (T-5)
53466 on Sat Jun 14, 2003  (T-4)
57464 on Sun Jun 15, 2003  (T-3)
422718 on Mon Jun 16, 2003  (T-2)
414535 on Tue Jun 17, 2003  (T-1)
55808 on Wed Jun 18, 2003  (T-0)

Date--
```

Input a date by entering either of the following:

- a date in date format

- **T-#** where # represents the number corresponding to the desired date.

A list of logs for the various processes and IDs on the system is displayed:

```
               General Hospital Console Log Listing Processor
                                         Wed Jun 18, 2003 01:22 pm

Page:01                                              ##=Current Choices
( 1) $ZA = 'F'          -       722    (18) ASI-RTE       -         4
( 2) $ZA = '|'          -      6601    (19) ASO-RTE       -         8
( 3) % 10 MIN           -        81    (20) ATCHG         -        26
( 4) %ATASK             -       184    (21) AZMID100      -       612
( 5) %EMail             -         8    (22) AZMID101      -       112
( 6) %FAX               -        14    (23) AZMID102      -        54
( 7) %HOURLY            -        30    (24) AZMID103      -       484
( 8) %NETWORK           -        14    (25) AZMID111      -       114
( 9) %RELEASE           -       396    (26) AZMID112      -        55
(10) %RELERR            -       170    (27) AZMID113      -       481
(11) %SENTINEL          -         2    (28) AZMID114      -       594
(12) %SPOOLER           -       180    (29) AZMID116      -       164
(13) %SYSERR            -       864    (30) AZMID118      -       455
(14) %UIMC              -       238    (31) AZMID119      -         9
(15) %UOBJDRV           -      1502    (32) AZMID169      -        11
(16) %XMIT              -       147    (33) AZMID171      -         9
(17) 1                  -        14    (34) AZMID172      -       593

Enter choices (e.g. 1,7,5-9) or '-'choices to remove--
            end select(NL)  next pg(/ or PG DN)  Search(TAB)
```

Select the log to view or press ENTER to display all logs.

In the example displayed, the %Spooler option is selected. This type of log displays Spooler Report errors.

```
               General Hospital   Console Log Listing Processor
                                            Wed Jun 18, 2003 01:22 pm

Console Log for 06/18/03 - Messages starting 55406 of 57082
13:00:11 Warning, report being spooled as demand report %ERTRAP
         ID: 162    Job: _237   Program: __LPSRPE
         Report: _____    Reason: UNDEFINED SPOOLER REPORT
         For more information see error for job: _274
13:18:16 Warning, report being spooled as demand report %ERTRAP
         ID: _72    Job: _335   Program: ___LOOLP
         Report: DLCLLCL0   Reason: UNDEFINED SPOOLER REPORT
         For more information see error for job: _338
13:21:35 Report exceeded maximum pages, suspending job
         ID: 114    Program: __SQLASP   Job: _335
         Report: SQLDEMAN   Maximum pages: ____1

Enter Message Number or ? for Help--
```

Enter the specific message number to view.

Press ENTER repeatedly to scroll through the log.

Enter a question mark (?) to access the Help text.

Enter period (.) ENTER repeatedly to return to the DBA Maintenance Processor screen.

For more information about the Console Log, see the *MultiSTAR Software Environment Operations Guide*.

VSD SQL Bundles

The Vista Software Distribution (VSD) feature allows you to perform STAR Vista Reporting Data Dictionary updates between application upgrades. New VSD bundles are available on a quarterly basis. For more information about this process, refer to the *VSD Implementation and Users Guide*.

VIEW SPOOLED REPORTS

The View Spooled Reports function enables you to view reports that have been spooled and not yet deleted from the system. A spooled report must be either a *Demand Report* or is *force-spooled* by the application. You can view these reports online from your PC or terminal, and then send the report to a printer, if desired.

When you select this option from the Spooler menu the system displays the following prompt:

Enter report name or leading chars '-' for a list--

Enter the system name of the report that you want to view, or use a hyphen (-) to display and select from a list of reports, as in the following screen:

```
                    General Hospital View Reports Processor
                                          Tue Mar 17, 1992  08:43 am
 Page:01
                          Reports defined in ID 97
     Name        Description                     Retention Time  Print Queue
( 1) FARDBL      PA Daily Balancing Report       3 day(s)        Demand
( 2) FARDBLM     PA Daily Balancing Report (M)   until midnight  Demand
( 3) FARDBLP     PA Daily Balancing Report (P)   2 day(s)        Demand
( 4) FARDLRASU   -ASU                            until midnight  Demand
( 5) FARDLRASUP  -ASU (P)                        until midnight  Demand
( 6) FARDLRATP   -ATP                            until midnight  Demand
( 7) FARDLRATPP  -ATP (P)                        until midnight  Demand
( 8) FARDLRBLB   -BLB                            until midnight  Demand
( 9) FARDLRBLBP  -BLB (P)                        until midnight  Demand
(10) FARDLRCAR   -CAR                            3 day(s)        Immediate
(11) FARDLRCARP  -CAR (P)                        until midnight  Demand
(12) FARDLRCPD   -CPD                            until midnight  Demand

 Enter choice--
                              next page(/)
```

After you identify the report you want to view, the system displays the following screen:

```
                    General Hospital View Reports Processor
                                          Tue Mar 17, 1992  08:43 am
 Report : FARDBL  PA Daily Balancing Report

 Report Search Constraints

 ( 1)Starting date: Tue Mar 17
 ( 2)Starting time: 12:00 midnight
 ( 3)Ending date  : Tue Mar 17
 ( 4)Ending time  : 8:43 am
 ( 5)Printer Name : BIT

 Enter field number or '/' starting field number--
                   next screen(/) or previous screen(/P) [/]
```

Use this screen to define the search constraints for the time period in which the report was generated and the device to which it was generated.

Field Explanations

1. STARTING DATE (DATE)
This field determines the first date to be used in searching the system for generated copies of the selected report.

2. STARTING TIME (TIME)
This field determines the earliest time to be used in searching the system for generated copies of the selected report.

3. ENDING DATE (DATE)
This field determines the last date to be used in searching the system for generated copies of the selected report.

4. ENDING TIME (TIME)

This field determines the latest time to be used in searching the system for generated copies of the selected report.

5. PRINTER NAME (8-AN-R)

This field identifies the destination printer(s) to be included in the search criteria. Enter the name of the printer. You can also enter a hyphen (-) to include all printers *for all system IDs* in the search. Search across all printers can be costly in time and system resources.

After you complete the fields the system asks if you want to accept your entries to this screen. Enter **Y** to accept the current contents of the screen. Enter **N** to return to the screen without accepting your changes.

The system then begins the search according to the criteria you defined, displaying the following screen:

```
                    General Hospital View Reports Processor
                                          Tue Mar 17, 1992  08:43 am

Report : FARDBL   PA Daily Balancing Report
Page:01

Copy Spooled         Last Printed      Pages   Comment
( 1) 03/17/92 0740   Not Printed          2
( 2) 03/16/92 1122   Not Printed          2
( 3) 03/16/92 1004   03/16/92 1004        3
( 4) 03/15/92 1545   03/16/92 0740        3



Enter choice--
```

If the system does not find any reports matching the search criteria, the following message displays at the bottom of the screen:

No Entries Defined

For each report matching the search criteria the system displays the date and time the report was generated, the date and time the report was last printed, the length of the report in pages, and any comments entered.

To view a report, enter the option number of the report.

The system displays the following screen:

```
                        General Hospital View Reports Processor
                                         Tue Mar 17, 1992   08:43 am
Report : FARDBL  PA Daily Balancing Report      Position|##################|
Spooled: 03/17/92 0740                          Last Printed: Not Printed
Date: 03/17/92                       GENERAL HOSPITAL                        Page: 1
Time: 07:40 am                    PA Daily Balancing Report              Report: FARDBL
                                      for 03/16/92

 Fin  Pre-                            Total         Unbilled       Billed                      Account
 Cls  Disch Pre-Discharge Disch   Discharged Accts  LOS  Charges      Charges     Payments  Adjustments   Balance

Emergency:
  02  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  08  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  18  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  XX  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  YY  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
 Tot: 99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
Inpatient:
  02  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  08  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  28  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  30  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  XX  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  YY  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99

Outpatient:
  02  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
  08  99999 99,999,999.99 99999 99,999,999.99 99999 99999 9,999,999.99  9,999,999.99  9,999,999.99  9,999,999.99  999,999,999.99
   Page: 1 - 3                    Display Columns:  1  through  132   Maximum: 132
   F1Page Up F2Page Dn F3 GoTo   F4 Skip 10%  F5 Print  F6Nxt Rpt F7 Exit   ?
```

At the bottom of the screen the system displays the following function keys. Use these function keys to view, print, or exit this report.

F1 Page Up

Press the F1 key to view the preceding page of the report.

F2 Page Dn

Press the F2 key to view the next page of the report.

F3 GoTo

Press the F3 key to go to the first, last, middle, or a specified page of the report display. The system displays the following prompt:

GO TO `T`op page, `B`ottom page, `M`iddle page, or page number [T]--

Enter **T** or press ENTER to go to the first page of the report. Enter **B** to go to the last page of the report. Enter **M** to go to the middle page of the report. To go to a specific page, enter the number of the page.

F4 Skip 10%

This key operates differently depending on the size of the report. If there are less than 10 pages for this report, when you press the F4 key the system scrolls down 18 lines to display the next screen of report information. If there are 10 or more pages for this report, when you press the F4 key the system scrolls down 10% through the report, or

the total number of report pages divided by 10. For example, if there are 100 pages in the report, when you press the F4 key the system displays page 10.

F5 Prt

Press the F5 key to print the report. For more information, see the View Spooled Reports section of the *MultiSTAR Software Environment Operations Guide.*

WRITE REPORTS TO TAPE

The Write Reports to Tape function enables you to create magnetic tapes using reports in the print queue. This is the only way to remove magnetic tape reports from the print queue.

When you access this function the system displays the spooled reports in the magnetic tape queue:

```
            General Hospital Write Reports to Tape Processor

 Page:01                                        ##=Current Choices
                Spooled Reports in Magnetic Tape Queue

     Spooled      Report Description   Printed      Comment
 (1) 06/10,1602  Admissions           06/11,1745  July,1990




 Select the reports to write to tape or (A)ll--
```

Field Explanations

SPOOLED
The month, day and time the report was spooled to disk in MM/DD,TTTT format.

REPORT DESCRIPTION
The description given the report during report definition.

PRINTED
The month, day and time the report was last printed in MM/DD,TTTT format.

COMMENT
The comment created by the application software. This field is used to distinguish each version of the report from others with the same name (the comment in this example labels the report as an admissions record for the month of July, 1990). At the bottom of the screen, the system displays the following prompt:

Select the reports to write to tape or (A)ll--

Enter **A** to select All reports or enter the option numbers of the reports you want to remove from the print queue. Press ENTER to end the selection process. The

following message displays while the system creates the file with the list of reports to write to the tape:

Setting up report information! Please wait!

The system then prompts you to mount the tape:

Mount tape number 1 and then enter 'READY'--
when the tape drive is online and ready

Mount the tape with the write ring installed and enter **READY**. The system displays the following:

Labeling tape!
Writing (Report Description) to File # on tape number 1

If the report(s) are too lengthy to fit on the first tape, the system prompts you to mount a second tape:

Mount tape number 2 and then enter 'READY'--
when the tape drive is online and ready

Continue mounting additional tapes as prompted. Once all the reports selected are written to tape and the tape has rewound, the system displays the following:

Deleting queue entries for reports copied to tape!

At this point the tape jobs you selected are moved from the tape queue to the demand queue. Once the system deletes the queue entries for the reports copied to tape, the following message displays:

Tape job complete! --Press NL to continue--

Press ENTER to return to the Spooler menu. This prompt does not time out for one hour, allowing you time to complete other tasks and still verify that tape processing was successful.

Microfiche Tape Format

The tape output is produced by the Write Reports to Tape function according to the following physical format specifications:

• The tape is written in ASCII format.

• The tape is written in blocked output.

• There are 2040 bytes per block.

- There are 255 bytes per record.

- Tape density defaults to the maximum capacity of the system's tape drive.

- The end of a file is marked with a single EOF marker.

- The end of a volume (in the case of multitape jobs) is marked with two consecutive EOF markers.

The end of the tape is marked with three consecutive EOF markers. File 0 of each tape consists of header information. The first five records of the header file are always the same:

1. The name of the computer system generating the tape.

2. This is a two piece field delimited by a colon (:). The first piece is the name of the application creating this tape ($ZA). The second piece is the logon character of the job creating this tape ($ZB).

3. The time this tape was created. For example, August 26,1990 at 10:19 AM would appear as 08/26/90 1019.

4. The volume number of this tape.

5. The number of reports in this set of tapes.

- Following the block containing the number of reports are descriptor blocks for each report in the tape (for example, the first descriptor block describes the first report, the second describes the second report, and so on). These blocks consist of a two piece field separated by a colon (:). The first piece is the logical name of the report. The second piece is the description of the report.

UNIX E-MAIL JOB OPTIONS

This feature of STAR Vista Reporting is designed to facilitate sending SQL-generated reports to a specific e-mail address. In addition, this feature allows you to set up and use electronic distribution for your SQL reports. For more information, see "REPORT DISTRIBUTION VIA UNIX E-MAIL" on page 5-49.

FTP TRANSFER OPTIONS

This feature automates the distribution of STAR Vista Reporting results to other servers on your network. It simplifies the process of populating web servers and moving files and reports from STAR to personal computers or file locations with no user intervention. In addition, it allows for centralized management of the FTP process. For more information, see "AUTOMATED FTP PROCESS WITH STAR VISTA REPORTING" on page 5-55.

ALERTS JOB OPTIONS

This feature notifies system administrators and other applicable personnel of potential system issues requiring attention. The issues can be related to STAR Vista Reporting or the STAR system in general.

To use this functionality, you must implement Report Distribution via Internet E-mail. You can configure the settings to notify you at specific e-mail addresses or via text messaging to a cellular telephone.

SQL Alerts Listing

The following table lists STAR Vista SQL Alerts that are available for STAR Vista Reporting releases 4.5 and later. Specific release information is included with the individual Alert notes.

ALERT NAME	This alert is generated when...	CONFIGURATION NOTES
SYS - Low Disk Space Warning (STAR 4.5 and later)	Available disk space is less than the percentage you set.	• Activate this alert in only one ID. • Examine disk space allocation on your system to determine the percentage level at which the system generates an alert. • If you set the Percentage at a higher level, such as 10%, then an alert frequency of Daily may be appropriate. If you set the Percentage at a lower level, such as 5%, then an alert frequency of Hourly may be more appropriate. • Poorly written SQL queries or queries that go into a loop can use all available disk space, which causes the STAR system to go down.

SQL - Background Queue Inactive (STAR 4.5 and later)	Nothing is launched from the Background Queue before the number of Minutes you set elapses.	• Activate this alert in any ID that runs SQL queries from the Background Queue.
		• Default value for Minutes is 720 (12 hours), meaning an alert is generated if nothing is launched from the Background Queue before that time elapses.
		• Potential reasons the Background Queue is not processing as expected are:
		  •Background Queue Tasker job is zapped in error.
		  •Background Queue Lock was set to YES and never unlocked.
		  •If a query scheduled to be launched by the Background Queue is locked because it is being edited or in use, it may not launch and can prevent other queue jobs from being launched.

ALERT NAME	This alert is generated when...	CONFIGURATION NOTES
SQL - Job Active Longer than xx Minutes (STAR 4.5 and later)	Orphaned ODBC connections and inefficient SQL queries (poorly written, looping or long-running) run longer than the number of Minutes you set.	• Activate this alert in only one ID because it checks all jobs in all IDs. • Default value for Minutes is 1440 (24 hours), meaning an alert is generated for any SQL job that is active longer than 24 hours. • The SQL Background Tasker (SQL V5, SQL V5D), ODBC Listener Job (SQL0TCP), and the SQL Alerts Tasker (SQLALERT) programs are excluded from this alert because they are active longer than 24 hours when functioning correctly. • This alert captures one occurrence at a time. Even if multiple instances of a specific SQL job run longer than the setting for Minutes, only the first instance generates an alert.
CON - BRS Program Error (STAR 4.5 and later)	SQL queries are either zapped or abort due to a MUMPS error. Note: All SQL queries are compiled into MUMPS programs that begin with BRS, so MSE Console Log errors that begin with BRS are related to SQL queries.	• Activate this alert in only one ID because it searches the MSE Console Log that resides in ID 0. • Set Email Frequency to Daily so you are only alerted once per day (once an error is displayed on the MSE Console Log, it remains there until the log is purged). If you set Email Frequency to Hourly, the alert is generated every hour. • If set to Daily, this alert captures the first occurrence per day. Even if multiple instances of a specific BRS program are displayed on the MSE Console Log, only the first instance generates an alert. Search the log to locate and correct all BRS program errors.
CON - SQL Program Error (STAR 4.5 and later)	SQL-related programs or queries are either zapped or abort due to a MUMPS error. Note: All SQL-related programs begin with SQL, so MSE Console Log errors that begin with SQL are related to SQL processing.	• Activate this alert in only one ID because it searches the MSE Console Log that resides in ID 0. • Set Email Frequency to Daily so you are only alerted once per day (once an error is displayed on the MSE Console Log, it remains there until the log is purged). If you set Email Frequency to Hourly, the alert is generated every hour. • If set to Daily, this alert captures the first occurrence per day. Even if multiple instances of a specific SQL program are displayed on the MSE Console Log, only the first instance generates an alert. Search the log to locate and correct all SQL program errors.

ALERT NAME	This alert is generated when...	CONFIGURATION NOTES
CON - Report Exceeded Maximum Pages Error (STAR 4.5 and later)	Spooled reports exceed the maximum number of pages specified for that report name. This error may or may not be related to a SQL query.	• Activate this alert in only one ID because it searches the MSE Console Log that resides in ID 0. • Set Email Frequency to Daily so you are only alerted once per day (once an error is displayed on the MSE Console Log, it remains there until the log is purged). If you set Email Frequency to Hourly, the alert is generated every hour. • If set to Daily, this alert captures the first occurrence per day. Even if multiple instances of reports exceeding maximum pages are displayed on the MSE Console Log, only the first instance generates an alert. Search the log to locate and correct all Report Exceeded Maximum Pages errors.
SYS - Midnight Processing Not Completed (STAR 4.6 and later)	Midnight Processing does not complete before the number of elapsed minutes you set is exceeded.	• You can activate this alert in any ID where STAR Vista Reporting is installed and you monitor Midnight Processing. • Set Minutes to the number of minutes past midnight that must elapse before you want the system to verify if Midnight Processing is complete. The default value for minutes is 269 (4:29am). • Set Email Frequency to Hourly to receive hourly notifications every hour if Midnight Processing is not complete. For example: If you set Minutes to 269 and Email Frequency to Hourly, at 4:30am the system checks to see if Midnight Processing is complete. If it is not, an alert e-mail is generated. This occurs every hour (at 45 minutes past the hour) until Midnight Processing is complete. After which, no more alert e-mails are generated.

ALERT NAME	This alert is generated when...	CONFIGURATION NOTES
SYS - Low Disk Space Advisory (STAR 4.6 and later)	Available disk space is less than the percentage you set.	Note: This alert functions exactly the same as the SYS - Low Disk Warning alert except: By setting Percentage higher on this Advisory alert, it sends earlier notification that disk space is low. Therefore, the situation is not as critical as the Warning alert, allowing you more time to correct the disk space issue. • Activate this alert in only one ID. • Examine disk space allocation on your system to determine the percentage level at which the system generates an alert. • If you set the Percentage at a higher level, such as 10%, then an alert frequency of Daily may be appropriate. If you set the Percentage at a lower level, such as 5%, then an alert frequency of Hourly may be more appropriate. • Poorly written SQL queries or queries that go into a loop can use all available disk space, which causes the STAR system to go down.
SQL - SQL Lock Set Longer than xx Minutes (STAR 4.6 and later)	Any SQL Lock has been locked longer than the number of Minutes you set.	• You can activate this alert in any ID where STAR Vista Reporting is installed. • Default value for Minutes is 720 (12 hours), meaning an alert is generated for any SQL Lock that has been active longer than 12 hours. • The following SQL Locks are checked for this alert function: Background Queue Compile Queries Statistics System User • Examples of uses for this alert are instances where Compile All Queries may have aborted with a MUMPS error, or when the Background Queue was locked and the user neglected to unlock it appropriately.

ALERT NAME	This alert is generated when...	CONFIGURATION NOTES
CON - Generic Console Log Search (STAR 4.6 and later)	Alerts 10-19 allow searching for a user-specified string of text on the MSE Console Log.	• Ordinarily, you would activate this alert in only one ID because it searches the MSE Console Log that resides in ID 0. However, it is possible to define ten Generic Console Log Search alerts in Live ID 1 and ten different Generic Console Log Search alerts in Test ID 2, and be running SQL Alerts Tasker in both ID 1 and ID 2. This enables you to have a total of twenty Generic Console Log Search alerts processing simultaneously. • Set Email Frequency to Daily so you are only alerted once per day (once an error is displayed on the MSE Console Log, it remains there until the log is purged). • An example use for this alert is to search for completed and not completed messages in Midnight Processing.
SQL - Generic Query Transaction Log Search (STAR 4.6 and later)	Alerts 20-29 allow searching for a user-specified string of text in the SQL Query Transaction Logs.	• You can activate this alert in any ID where STAR Vista Reporting is installed. • Set Email Frequency to Daily so you are only alerted once per day (once an error is displayed on the SQL Query Transaction Logs, it remains there until the logs are purged). • Only the text that is displayed as "Error:" or "Message:" in the SQL Query Transaction Logs can be searched. Examples of errors or messages on which you could search are: "Rejected" indicating that records may have been rejected while attempting to be inserted into User Defined Tables, or "Unable to open file" or "Error on write", which indicate problems with queries directing output to UNIX files.

ALERT NAME	This alert is generated when...	CONFIGURATION NOTES
SQL-UNIX Email Query Ran Long (STAR 5.0 and later)	The query finishes after the scheduled send/transmit email time.	• Alert 30 can be used to warn when a query that creates a file to be sent using UNIX Email has run past the scheduled email send time. • This alert can be activated in any ID that has STAR Vista Reporting installed, but typically would only be active in the Live ID 1. • The "Email Frequency" should be set to Hourly. • Fields 9 Operator, 10 Minutes, 11 Percentage, and 12 Search String are not used for this alert. However Field 9 Operator cannot be null.
SQL-Auto FTP Query Ran Long (STAR 5.0 and later)	The query finishes after the scheduled auto ftp time.	• Alert 31 can be used to warn when a query that creates a file to be transmitted using Auto FTP has run past the scheduled transmit time. • This alert can be activated in any ID that has STAR Vista Reporting installed, but typically would only be active in the Live ID 1. • SQL Auto FTP functionality must be enabled. • The "Email Frequency" should be set to Hourly. • Fields 9 Operator, 10 Minutes, 11 Percentage, and 12 Search String are not used for this alert. However Field 9 Operator cannot be null. • An auto ftp job must be defined and scheduled for that output file.
SQL-UNIX Email Not sent for XX Minutes (STAR 5.1 and later)	The elapsed time between the last update of the UNIX email log file (named email.log in the /hbo/sql/crons directory) and the current time exceeds the number of minutes entered in Field 10 Minutes."Alert 32 can be used to warn when there is a disruption in the UNIX Email process.	• This alert can be activated in any ID that has STAR Vista Reporting installed, but typically would only be active in the Live ID 1. • The "Email Frequency" should be set to Hourly.

ALERT NAME	This alert is generated when...	CONFIGURATION NOTES
SQL-Auto FTP Not Sent for XX Minutes (STAR 5.1 and later)	The elapsed time between the last update of the Auto FTP log file named ftp.log in the /hbo/sql/crons directory and the current time exceeds the number of minutes entered in Field 10 Minutes.	• Alert 33 can be used to warn when there is a disruption in the process to move files scheduled to auto ftp to another server or software package. • This alert can be activated in any ID that has STAR Vista Reporting installed, but typically would only be active in the Live ID 1. • SQL Auto FTP functionality must be enabled. • The "Email Frequency" should be set to Hourly.

Configure SQL Alerts

Create or Delete SQL Alerts

Only McKesson personnel are authorized to create or delete alerts. If McKesson deletes an alert at your request, it cannot be used again unless you ask McKesson to recreate it. Therefore, if you do not want to use an alert, McKesson recommends you set the Enabled? field to N. If you decide you want to use the alert, you can set this field to Y without consulting McKesson. For more information about activating and inactivating alerts, see "Edit SQL Alerts" on page 1-63.

Alerts Job Options

To configure parameters for SQL Alerts, access the DBA Menu. The following screen is displayed:

```
                    General Hospital SQL DBA Menu Processor
                                            Fri Mar 24, 2006 11:36 am
 SQL DBA Menu Input Options


          Option No.  Option
          --------------------------------------
             1         STAR Vista Reporting Access

             2         Unlock Query
             3         Data Dictionary Summary Print
             4         Online Table Documentation
             5         SQL Table/Node Crossreference
             6         Global Utility Access
             7         Query Transfer ID to ID

             8         DBA Maintenance Functions
             9         View Spooled Reports
            10         Write Reports to Tape

            11         UNIX Email Job Options
            12         FTP Transfer Options
            13         Alerts Job Options

 Enter option number--
```

Select **Alerts Job Options**. The following screen is displayed:

```
            General Hospital Alerts Job Options Processor

Alerts Job Options Input Options

            Option No.  Option
            ---------------------------------------
                1       Edit SQL Alerts

                2       Start SQL Alerts Tasker

                3       Stop SQL Alerts Tasker
```

Edit SQL Alerts

If you select Edit SQL Alerts, a list of your system alerts is displayed:

```
                General Hospital Edit SQL Alerts Processor

            Alert Description                  Recipient #1              Seq#
( 1) SYS-Low Disk Space Warning           Joel.Webb@McKesson.com       1
( 2) SQL-Background Queue Inactive        Joel.Webb@McKesson.com       2
( 3) SQL-Job Active Longer Than XX Minutes Joel.Webb@McKesson.com      3
( 4) CON-BRS Program Error                Joel.Webb@McKesson.com       4
( 5) CON-SQL Program Error                Joel.Webb@McKesson.com       5
( 6) CON-Report Exceeded Maximum Pages Error  Joel.Webb@McKesson.com   6
```

Select the number of the alert you want to edit. The following screen is displayed:

```
                General Hospital Edit SQL Alerts Processor

            STAR VISTA REPORTING ALERTS CONFIGURATION SCREEN

1 Alert Description                       2 Enabled?
  SYS-Low Disk Space Warning                Yes

3 Recipient #1                            8 Email Frequency
  Joel.Webb@McKesson.com                    Daily

4 Recipient #2                                     ALERT TRIGGER VALUES
                                          9 Operator
                                            <
5 Recipient #3
                                          10 Minutes     11 Percentage
                                                              5
6 Subject of Email
  Low Disk Space                          12 Search String (Case Sensitive)

7 Email Comment
  Free Disk Space below 5%
```

Field Explanations

1. ALERT DESCRIPTION (40-C-R)
This field contains the description of the alert. When you access this field, the following prompt is displayed:

Enter new alert description--

Enter a description (up to 40 characters).

2. ENABLED? (1-A-R)
This field determines if the alert is activated. When you access this field, the following prompt is displayed:

Is this alert enabled? (Y/N)--

Enter **Y** to activate (enable) this alert. Enter **N** to inactivate (disable) this alert.

NOTE: Only McKesson personnel are authorized to create or delete alerts. If McKesson deletes an alert at your request, it cannot be used again unless you ask McKesson to recreate it. Therefore, if you do not want to use an alert, McKesson recommends you set the Enabled? field to N. If you decide you want to use the alert, you can set this field to Y without consulting McKesson.

3. RECIPIENT #1 (40-C-R)
This field contains the e-mail address of the first person you want to receive the alert notification. When you access this field, the following prompt is displayed:

Enter Email Address for Recipient #1--

Enter the e-mail address (up to 40 characters) of the first recipient.

4. RECIPIENT #2 (40-C-O)
This field contains the e-mail address of the second person you want to receive the alert notification. This field is optional. When you access this field, the following prompt is displayed:

Enter Email Address for Recipient #2--

Enter the e-mail address (up to 40 characters) of the second recipient.

5. RECIPIENT #3 (40-C-O)
This field contains the e-mail address of the third person you want to receive the alert notification. This field is optional. When you access this field, the following prompt is displayed:

Enter Email Address for Recipient #3--

Enter the e-mail address (up to 40 characters) of the third recipient.

6. SUBJECT OF EMAIL (35-C-O)
This field contains the information that is sent in the subject line of the e-mail when the alert is generated and sent to applicable recipients. This field is optional. When you access this field, the following prompt is displayed:

Enter Subject for Email--

Enter the information you want the system to send in the e-mail subject line (up to 35 characters).

NOTE: For detailed information about e-mails and text messaging, see "E-mail Format" on page 1-68 and "Text Messaging Considerations" on page 1-69.

7. EMAIL COMMENT (50-C-O)

This field contains the information that is sent in the body of the e-mail when the alert is generated and sent to applicable recipients. This field is optional.

When you access this field, the following prompt is displayed:

Enter new email comment--

Enter the information you want the system to send in the body of the e-mail (up to 50 characters).

NOTE: For detailed information about e-mails and text messaging, see "E-mail Format" on page 1-68 and "Text Messaging Considerations" on page 1-69.

8. EMAIL FREQUENCY (1-C-R)

This field contains the interval at which you want the alert to be sent. When you access this field, the following prompt is displayed:

Send once per 'D'ay or every 'H'our (D/H)--

Enter **D** if you want the alert sent once per day (regardless of the number of times the alert is generated). Enter **H** if you want the alert sent once per hour (regardless of the number of times the alert is generated).

For example, the CON - Report Exceeded Maximum Pages Error:

- Set Email Frequency to Daily so you are alerted only once per day (once an error is displayed on the MSE Console Log, it remains there until the log is purged). If you set Email Frequency to Hourly, the alert is generated every hour.

- If set to Daily, this alert captures the first occurrence per day. Even if multiple instances of reports exceeding maximum pages are displayed on the MSE Console Log, only the first instance generates an alert. Search the log to locate and correct all Report Exceeded Maximum Pages errors.

NOTE: For detailed information about e-mails and text messaging, see "E-mail Format" on page 1-68 and "Text Messaging Considerations" on page 1-69.

ALERT TRIGGER VALUES

9. OPERATOR (1-C-R)
This field contains the alert comparison condition. When you access this field, the following prompt is displayed:

Enter new operator < = > [--

Enter a less than sign (<) if you want the alert to be generated if the system detects that the value in the system is less than the value in the Minutes or Percentage field.

Enter a greater than sign (>) if you want the alert to be generated if the system detects that the value in the system is greater than the value in the Minutes or Percentage field.

Enter an equals sign (=) if you want the alert to be generated if the system detects that the value in the system is equal to the value in the Minutes or Percentage field.

Enter a left bracket ([ ) if you want the alert to be generated if the system detects that the value in the system contains the information that you entered in the Search String field.

NOTE: The value in the Operator field is used in conjunction with information in the Minutes, Percentage or Search String fields. However, those fields are mutually exclusive, so you can only enter information in one of them.

If you change the information in the Operator, Minutes, Percentage or Search String fields and accept the changes, the system is updated immediately. The new information is used the next time the alert processes. You are not required to stop and restart the Alert Tasker to implement the new information.

10. MINUTES (4-N-O)
This field contains the number of minutes (0-9999) that must elapse before the alert is generated. When you access this field, the following prompt is displayed:

Enter time interval in minutes [0-9999]--

Enter the desired number of minutes (0-9999).

NOTE: The value in the Operator field is used in conjunction with information in the Minutes, Percentage or Search String fields. However, those fields are mutually exclusive, so you can only enter information in one of them.

If you change the information in the Operator, Minutes, Percentage or Search String fields and accept the changes, the system is updated immediately. The new information is used the next time the alert processes. You are not required to stop and restart the Alert Tasker to implement the new information.

For example, edit the SQL - Background Queue Inactive Alert parameter by setting the Operator field to greater than (>) and the Minutes field to 60. If more than 60 minutes have elapsed since a query has been launched from the Background Queue, an alert is generated and sent to the designated recipients.

11. PERCENTAGE (2-N-O)
This field contains the percentage value (0-99) that must occur before the alert is generated. When you access this field, the following prompt is displayed:

Enter new percentage [0-99]--

Enter the desired percentage (0-99).

NOTE: The value in the Operator field is used in conjunction with information in the Minutes, Percentage or Search String fields. However, those fields are mutually exclusive, so you can only enter information in one of them.

If you change the information in the Operator, Minutes, Percentage or Search String fields and accept the changes, the system is updated immediately. The new information is used the next time the alert processes. You are not required to stop and restart the Alert Tasker to implement the new information.

For example, edit the SYS - Low Disk Space Warning Alert by setting the Operator field to less than (<) and the Percentage field to 10. If the system detects that available disk space is less than 10%, an alert is generated and sent to the designated recipients.

12. SEARCH STRING (75-C-O AND CASE SENSITIVE)
This field contains the case-sensitive string of information that the system must detect before the alert is generated. When you access this field, the following prompt is displayed:

Enter search string--

Enter the desired search string (up to 75 characters).

NOTE: The value in the Operator field is used in conjunction with information in the Minutes, Percentage or Search String fields. However, those fields are mutually exclusive, so you can only enter information in one of them.

If you change the information in the Operator, Minutes, Percentage or Search String fields and accept the changes, the system is updated immediately. The new information is used the next time the alert processes. You are not required to stop and restart the Alert Tasker to implement the new information.

For example, edit the CON - SQL Program Error Alert by setting the Operator field to a left bracket ([ ) and the Search String field to SQL. If you set the Email Frequency

field to Daily and any program error that is displayed on the MSE Console Log contains the letters SQL, an alert is generated once daily and sent to the designated recipients. For more information about the number of times an alert is generated, see the description of the Email Frequency field as well as the Configuration Notes column for the specific alert in the "SQL Alerts Listing" on page 1-56.

E-mail Format

NOTE: The format of e-mail alerts are provided in this section as well as in "Edit SQL Alerts" on page 1-63.

The e-mail From: field is in the following format:

SQL_ALERT@h1234

where:

- *SQL_ALERT@* is a constant value

- *h1234* is the database identifier assigned to the STAR CPU sending the alert

The following two message lines are always supplied by the alerts processor in the body of each alert e-mail:

- The first line contains the STAR System CPU name and the MSE database name. For example:

General Hospital Patient Care CPU - [/hbo/db01/h1234n1]

- The second line contains information regarding the alert condition. Some examples include:

  - Free Disk Space = 4.27% Free Disk Blocks = 35234 as of 01/20/06 0030

  - SQL Background Queue May Be Stalled in ID 1 as of 01/20/06 0430

  - SQL Job 63 SQL0TCP in ID 1 active longer than 1440 minutes as of 01/18/06 1430

  - BRS program error on Console Log for 11/03/05 line 9999 ID 1

  - SQL program error on Console Log for 11/03/05 line 9999 ID 1

  - Report exceeded maximum pages error on Console Log for 10/28/05 line 9999 ID 1

  - Midnight Processing Not Completed in ID 1 as 0429

  - SQL Lock BACKGROUND QUEUE in ID 1 has been set longer than 720 Minutes as of 03/01/07 1800

  - String {user defined} found on Console Log for 03/01/07 line 9999 ID1

- String {user defined} found on Query Transaction Log for QB_ABC at 03/01/07 1800 in ID 1

Text Messaging Considerations

The number of text message characters that can be received by many cellular telephones is limited. Therefore, if you designate that an alert is to be sent to a cellular telephone as a text message, McKesson recommends you enter only brief information in the Subject of Email and Email Comments fields. In most instances, if a text message is truncated because of cellular telephone limitations, the Email Comments field information is truncated.

In addition, your site may have configured UNIX e-mail parameters on each particular CPU to disallow sending UNIX e-mails outside of your internal hospital network. This could prevent text messages from being sent directly to a cellular telephone. In this situation, you need to configure the alert e-mail so it is sent to your internal e-mail application, and then create a rule in your internal e-mail application that forwards SQL Alert e-mails to your cellular phone or other e-mail addresses.

SQL Alerts Tasker

This section provides information about how the SQL Alerts Tasker program functions and how to start and stop the program.

Start SQL Alerts Tasker

This option allows you to launch the SQL Alerts Tasker (program name: SQLALERT).

- If you select this option from the Alerts Job Options menu and the SQL Alerts Tasker is already running in the ID into which you are logged, the following message is displayed:

  SQL Alert Tasker is already running as Job ### in ID n

  where:

  - *###* is the job number

  - *n* is the ID number (for example, Live=1, Test=2)

  If the SQL Alert Tasker is already running, you are returned to the previous screen. You must stop the SQL Alert Tasker in that ID before you can use this option to start it.

- If the SQL Alert Tasker is not running in the ID into which you are logged, the following prompt is displayed:

  Are you sure you want to start the SQL Alert Tasker? (Y/N) [N]--

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Enter **Y** to launch the SQL Alert Tasker. Enter **N** to exit without starting the SQL Alert Tasker.

If you enter Y, the following message is displayed:

SQL Alert Tasker started!

The following message is printed on the MSE Console Log in the SQL category:

13:17:31 SQL Alerts Tasker started in ID n by Smith, John

where:

- *13:17:31* is the hour:minute:second you started the process

- *n* is the ID number (for example, Live=1, Test=2)

- *Smith, John* is the name of the person logged in at the PC you are using

Stop SQL Alerts Tasker

This option allows you to halt the SQL Alerts Tasker (program name: SQLALERT). If you select this option from the Alerts Job Options menu, the following prompt is displayed:

Are you sure you want to stop the SQL Alert Tasker? (Y/N) [N]--

Enter **Y** to halt the SQL Alert Tasker. Enter **N** to exit without stopping the SQL Alert Tasker. The following message is displayed:

SQL Alert Tasker will be halted within 60 seconds!

The following message is printed on the MSE Console Log in the SQL category:

19:45:15 SQL Alerts Tasker halted in ID 1 by Smith, John

where:

• *13:17:31* is the hour:minute:second you stopped the process

• *n* is the ID number (for example, Live=1, Test=2)

• *Smith, John* is the name of the person logged in at the PC you are using

NOTE: When you stop the SQL Alerts Tasker, all tracking of alerts already sent that day is cleared. This doesn't impact alerts where the Email Frequency field is set to Hourly. However, for alerts where the Email Frequency field is set to Daily, stopping and starting the SQL Alerts Tasker will cause the system to

send the first occurrence of an alert based on settings explained in "SQL Alerts Listing" on page 1-56.

SQL Alerts Tasker Processing Flow

The SQL Alerts Tasker (program name: SQLALERT) functions as described below:

- Checks once per minute to determine if you have flagged the SQL Alerts Tasker to stop (see "Stop SQL Alerts Tasker" on page 1-70).

- Executes the alert checking routines at 30 minutes after each hour (for example, 1:30, 2:30) and generates the alert e-mails if the defined alert conditions have been met (see "SQL Alerts Listing" on page 1-56 and "Configure SQL Alerts" on page 1-62).

- Sends the generated alerts e-mails (if there are any) at 45 minutes after the hour (for example, 1;45, 2:45).

- Frequency of e-mails can occur once per day or every hour based on the Email Frequency field for the specified alert.

- You can enable or disable alerts in real time and parameters can be changed without having to start and stop the SQL Alerts Tasker. All Alerts parameters are reset once per hour just prior to the alerts being launched at 30 minutes after each hour, so changes made prior to 30 minutes past the hour are reflected in the next run of alerts. For more information, see "Edit SQL Alerts" on page 1-63.

- Alerts processing can be ID specific. One set of alert conditions can be used in the Live ID 1 while a different set of alert conditions are used in ID 2. For more information, see "SQL Alerts Listing" on page 1-56.

STAR Vista Tool Kit

This menu option on the SQL DBA Menu provides easy access to sample queries to assist the SQL DBA and end users. The menu option and queries are available with the Vista 5.4 software and includes the following:

- Utility Queries - queries to check system settings, parameters, and other key information regarding the SQL processes and environment.

- Tool Kit Queries - queries designed to help monitor SQL activity and assist with query writing and troubleshooting.

- ICD10 Queries - queries to assist with the build and transition for ICD10.

- Base Report Queries - queries to provide SQL output similar to STAR standard base Mumps reports.

See Appendix A for a complete list, names and descriptions of the STAR Vista Tool Kit queries.

System Manager Options

NOTE: Options not described in this section are provided in applicable sections of this reference guide or in manuals produced by Knowledge Based Systems, Inc.®

To access this option, select **SQL DBA Menu > STAR Vista Reporting Access**. Enter the SQL DBA password. The following screen is displayed:

```
      KB_SQL Vx.x                 Knowledge Based Systems, Inc.


                  Number of active SQL users= 6___
           Number of server connections= 0___
           Server ready for connections? YES
          Background query queue status= Waiting for a task._____
Background table statistics queue status: Empty_____
            Number of system exceptions= 0_____
             Number of system locks set= 0_
             Integrity check last run on= 04/12/06@1:40 PM_____


                    Examine system status? NO_

  WARNING: 4 Connection(s) appear to be inactive
            <press [enter] to continue>
```

NOTE: With KB_SQL Release V5.0, a process/connection clean-up utility runs and rolls back incomplete transactions for just the connections where the MUMPS process has aborted or disconnected improperly. This helps eliminate messages such as the *WARNING: 4 Connection(s) appear to be inactive* that displays in the screen above.

Press ENTER twice to continue. The following menu is displayed:

```
        McKesson Release x.x    KB_SQL Vx.x

  SYSTEM MANAGER OPTIONS


            Select option
      SQL EDITOR
      EZQ EDITOR
      CONFIGURATION
      DATA DICTIONARY
      TERMINALS/PRINTERS
      SECURITY
      UTILITIES
      SYSTEM STATUS
      VERSION INFORMATION

   help=F1        enter=Enter     skip=F4        keys=F3
```

The menu options are described below.

SQL EDITOR

SQL Editor is a free-form text editor for information retrieval and analysis. Function-specific information is provided in applicable sections of this reference guide. Detailed information about the tool is located in manuals produced by Knowledge Based Systems, Inc.

EZQ EDITOR

EZQ Editor is a menu-driven editor for report design. Function-specific information is provided in applicable sections of this reference guide. Detailed information about the tool is located in manuals produced by Knowledge Based Systems, Inc.

CONFIGURATION

This option allows you to set site configuration parameters. Function-specific information is provided in this and other applicable sections of this reference guide. Detailed information about the tool is located in manuals produced by Knowledge Based Systems, Inc.

DATA DICTIONARY

This option allows you to print data dictionary definitions. Function-specific information is provided in applicable sections of this reference guide. Detailed information about the tool is located in manuals produced by Knowledge Based Systems, Inc.

TERMINALS/PRINTERS

This option allows you to define logical device names. Function-specific information is provided in applicable sections of this reference guide. Detailed information about the tool is located in manuals produced by Knowledge Based Systems, Inc.

SECURITY

This option allows you to set security options for groups and users. Function-specific information is provided in this and other applicable sections of this reference guide. Detailed information about the tool is located in manuals produced by Knowledge Based Systems, Inc.

To access this option, select **System Manager Options > Security**.

The following screen is displayed:

```
SYSTEM MANAGER OPTIONS
      SECURITY
    Select option
      GROUP EDIT
      USER EDIT
      PUBLIC PRIVILEGES
      SITE SECURITY EDIT
      REPORTS
```

User Edit

If you select User Edit, the following menu is displayed:

```
           USER EDIT  KB_SQL Vx.x

User name: XXX_____
    Group: XXXX_____

          User Security Options
      *PASSWORD
       GENERAL
       DISABLE/ENABLE
       QUALIFICATIONS
       COLORS
       EXIT

  help=F1        enter=Enter    skip=F4        keys=F3
```

If you select Password, the following screen is displayed:

```
           USER EDIT KB_SQL Vx.x

         User Information
User name: XXX_____
   Group: XXXX_____
 Password: **********_____
 Confirm: **********_____
 Password expires on: _____
 Allow renewal after expiration? YES

  help=F1        skip=F4        undo=F10       keys=F3
```

NOTE: Password expires on is based on the rule you set for the site.

If you select General, the following screen is displayed:

```
                    USER EDIT KB_SQL Vx.x

          User Information
User name: XXX_____
    Group: XXXX_____
             General User Data
         Prompt for output type? NO_
     EZQ only? NO_
  Edit queries? YES
    Programmer? NO_
  Allow multiple queues?   YES
  Limit search: _____  Select: _____


  help=F1        skip=F4        undo=F10        keys=F3
```

NOTE: **Allow multiple queues?** is at the user level in STAR Vista 4.5 and later. You can specify if the selected user can have multiple background jobs running at the same time. The conversion to implement this functionality updates each user account with the value that was previously located in the Background Task Information parameter. It copies the value defined at the point the STAR Vista 4.5 Upgrade process begins. If necessary, a member of the DBA group can change this parameter at the user level after the upgrade is completed.

If you select Disable/Enable, the following screen is displayed:

```
                    USER EDIT KB_SQL Vx.x

          User Information
User name: XXX_____
    Group: XXXX_____
             User account disable
 User account is disabled? NO_
 Disabled on date: _____
 Disabled on time: _____
 Disabled by user: _____
 Disabled for reason
 : _____


  help=F1        skip=F4        undo=F10        keys=F3
```

Enter information in these fields if you want to disable, enable or verify a user's SQL access.

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If you select Qualifications, the following screen is displayed:

```
                      USER EDIT KB_SQL Vx.x

               User Information
 User name: XXX_____
     Group: XXXX_____
               User Commands
           Create schema? NO_
  Create table or index? YES
             Create view? NO_
             Drop schema? NO_
    Drop table or index? YES
               Drop view? NO_
       Delete table rows? NO_
       Insert table rows? NO_
       Update table rows? NO_
        Grant privileges? NO_
       Revoke privileges? NO_


    help=F1        skip=F4        undo=F10        keys=F3
```

Enter information in these fields if you want to define user privileges. You can access only user accounts that do not belong to the DBA User Group.

If you select Colors, the following screen is displayed:

```
                      USER EDIT KB_SQL Vx.x

               User Information
 User name: XXX_____
     Group: XXXX_____
         User Colors
  Use colors? NO_
          Screen foreground: _____   Background: _____
    Data window foreground: _____   Background: _____
  Select window foreground: _____   Background: _____
    Help window foreground: _____   Background: _____
   Error window foreground: _____   Background: _____


    help=F1        skip=F4        undo=F10        keys=F3
```

Enter **YES** in the Use Colors? field if the user's PC has a color monitor. You can also set this using WEM color emulation.

Site Security Edit

Select **Site Security Edit**. The following screen is displayed:

```
SITE SECURITY EDIT
        SITE NAME
SITE NAME:  _____

     *MAIN
      USER ID
      DBA LOGIN
      USER LOGIN
      ENCRYPT
      DECRYPT
      EXIT
```

Select **Main**. The following screen is displayed:

```
SITE SECURITY EDIT             KB_SQL Vx.x
        SITE NAME
SITE NAME:  _____

        SITE SECURITY

 Encrypt passwords? YES
 Require username at login? NO_
 Minimum password length: 5__
    Password expire days: 90_   Password warning days: 5__

 Maximum login attempts: 3__
 Disable user account after failed max login attempts? YES
 Maintenance days for failed logins log? 90_

 Enable SQL Audit? YES
```

Password expire days and **Password warning days** are under Site Security Edit as of STAR Vista 4.5 and later.

Disable user account after failed max login attempts allows you to set the number of unsuccessful attempts the user can perform (by not entering the correct login and password information) before their account is disabled. The account lock would have to be cleared manually by a system administrator, allowing you to secure accounts from unauthorized logins as well as to educate users regarding proper login procedures.

Maintenance days for failed logins log allows you to set the number of days failed logins are tracked and stored in the SQL_LOGIN_FAILURE table. This facilitates your efforts to monitor unauthorized system access attempts.

Enable SQL Audit? allows you to help track system parameter and security table changes. This is intended for use by the Hospital DBA and McKesson resources. It provides a way to identify changes that have been made, often inadvertently, that are affecting the system activity and assist with troubleshooting unpredictable behavior.

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REPORTS

Select **Reports**. The following screen is displayed:

```
SYSTEM MANAGER OPTIONS
      SECURITY
            REPORTS

        Select option
      GROUP PRINT
      MEMBER PRINT
      QUERY PRIVILEGES
      TABLE PRIVILEGES
      PUBLIC QUERY PRIVILEGES
      PUBLIC TABLE PRIVILEGES
      USER PRINT
      LOGIN FAILURE LOG
    *AUDIT LOG
```

Select **Audit Log**. After you select the spooler and from/through dates and times, the Audit Log is generated.

A sample log is displayed below:

```
SQL_AUDIT_TX

    AX_TIME   AX_USERNAME      AX_TABLENAME                         AX_ROW   AX_TYPE

--------------------------------------------------------------------------------
12:47:53 PM  HBO_DBA           SQL_USER_QUERY                       301439   (D)
                      GROUP_ID:
                         (OLD): 3
                          NAME:
                         (OLD): DEMO_FORMAT_HTML_TABLE
                         QUERY:
                         (OLD): 59507
                        UPDATE:
                         (OLD): 1
             USER_QUERY_SELECT:
                         (OLD): 1
12:37:24 PM  DBA               SQL_USER_TABLE                       303459   (I)
                      GROUP_ID: 300007
                         (OLD):
                          NAME: TRN_AG_DSCHRG_DT_IDX
                         (OLD):
                         TABLE: 301846
                         (OLD):
             USER_TABLE_SELECT: 1
                         (OLD):

12:33:48 PM  DBA               USER                                 300014   (U)
                      GROUP_ID: 300007
                         (OLD): 1
                INITIAL_OPTION:
                         (OLD): 87
```

- The Audit captures the change of the NAME and LAST_UPDATE columns and the options for transaction type are: I for Insert, U for Update, or D for Delete.

- Retention and availability of the audit reports is determined by the number of days defined in Configuration, Date Time Limits setting. This retention period applies to all transaction logs for the site.

NOTE: Tracking for this option is limited to the following tables:

BASE_ROUTINE
CATALOG
DATA_TYPE
DEVICE
DEVICE_TYPE
ERRORS
FILE_TYPE
KEY_FORMAT
OUTPUT_FORMAT
SCHEMA
SITE
SQL_API
SQL_API_CONNECT_OPTION
SQL_API_DATATYPE
SQL_API_GET_INFO
SQL_API_SQLSTATE
SQL_API_STMT_OPTION
SQL_CUSTOM_START_DATES
SQL_DEFAULT_VALUE
SQL_DELIMITER_TOKEN
SQL_KEY_WORD
SQL_METHOD
SQL_TCP_HOST
SQL_TCP_PORT
SQL_USER_QUERY
SQL_USER_TABLE
USER
USER_GROUP

UTILITIES

This option allows you to access utilities to compile queries and import/export data. Function-specific information is provided in this and other applicable sections of this reference guide. Detailed information about the tool is located in manuals produced by Knowledge Based Systems, Inc.

To access this option, select **System Manager Options > Utilities**. The following screen is displayed:

```
SYSTEM MANAGER OPTIONS
      UTILITIES
    Select option
      JOB WATCH
      EXPORT QUERY
      HALT QUERY
      IMPORT
      COMPILE ALL QUERIES
      LOCK STATUS
      REPORTS
      STATISTICS
      TRANSACTION LOGS
```

Compile All Queries

If you select Compile All Queries, the following screen is displayed:

```
        COMPILE ALL QUERIES  McKesson ER x.x  KB_SQL Vx.x



                  Compile All Queries:Step 1
      Recompile only edited queries? NO_
          Select specific queries? YES
            Queries run since date: _____
            Queries for User Group: PFS_____




  help=F1        skip=F4        undo=F10        keys=F3
```

You can compile all queries based on a selected user group and run compile all queries as a background process.

To compile all queries for a specific user group, enter **YES** in the Select specific queries? field.

In the Queries for User group field, enter the desired user group or press F2 to display a list of user groups available.

After you select the desired user group, press ENTER and the following screen is displayed:

```
          COMPILE ALL QUERIES   KB_SQL Vx.x

                Compile All Queries: Step 2

      Query name: _QB_PFS*_____
      You have selected _211__  queries
      Run in background? NO_
        Start recompile? NO_
```

Enter the query name or press F2 to display a list of queries available. You can also
enter the beginning characters of the query name followed by an asterisk (*) to compile
all the queries that begin with those characters for the user group specified. Based on
the example above, the system is going to compile 211 queries that begin with the
characters QB_PFS for the specified user group PFS.

Reports

If you select Reports, the following screen is displayed:

```
SYSTEM MANAGER OPTIONS
     UTILITIES
          REPORTS

          Select option
     INTEGRITY CHECK ERRORS
     QUERY DIRECTORY
    *QUERY FOLDER PRINT
     QUERY PRINT
     DBA MESSAGE LOG
     DBA RESET LOG
     DBA TX MAINT LOG
     LOGIN FAILURE LOG

 Print query folder(s)
```

NOTE: Starting with Vista Release 5.3, the Query Folder Print option enables you to
print folder contents and query names that are defined in QRE.

DBA Message Log

The DBA Message Log allows you to view messages related to transaction logs
maintenance messages and other system activity. A sample similar to the following
can be viewed or printed:

```
DBA Message Log


Query Execute: SQL_TABLE_PRIVILEGES (HBO_DBA)
-------------------------------
04:58:50 PM  0035: Query stopped by user request


Query Execute: SQL_AUDIT_TX (HBO_DBA)
-------------------------------
04:58:13 PM  0116: Query execution halted by user request
04:58:13 PM  0907: SubQuery [SQL_AUDIT_TX_DATA](3)


Query Execute: SQL_TXLOG_DETAILED (HBO_DBA)
-------------------------------
04:14:43 PM  0116: Query execution halted by user request
04:14:43 PM  0907: SubQuery [SQL_TXLOG_DETAILED_DIAGNOSTICS](3)
04:14:43 PM  0907: SubQuery [SQL_TXLOG_DETAILED_VARIABLES](3)
```

DBA Reset Log

The DBA Reset Log allows you to view the detail messages of what occurs when a SQL reset is performed. A sample similar to the following can be viewed or printed:

```
System RESET Log Report

03/11/2007
-----------------
  03/11/07@11:22 PM  Initializing temporary globals
  03/11/07@11:22 PM  Restarting Queue Manager
  03/11/07@11:22 PM  RESET Completed
  03/11/07@11:22 PM  Resetting process handles


  03/11/07@11:22 PM  RESET Started
  03/11/07@11:22 PM  Rolling back incomplete transactions
  03/11/07@11:22 PM  3 incomplete transactions rolled back!
  03/11/07@11:22 PM  Clearing SQL lock table
  03/11/07@11:22 PM  Clearing SQL user process table
  03/11/07@11:22 PM  Clearing SQL system-wide locks
```

DBA Tx Maint Log

The DBA Tx Maint Log allows you to view messages related to system maintenance activities. This includes the purge of transactions logs based on the Retention Days parameter. A sample similar to the following can be viewed or printed:

```
  Transaction Log Maintenance Report

03/07/2007
-----------------
  03/07/07@12:00 AM  Dated transaction maintenance started
  03/07/07@12:00 AM  Deleting old transactions...
  03/07/07@12:00 AM  464 transactions deleted
  03/07/07@12:00 AM  Deleting old import messages...
  03/07/07@12:00 AM  0 import transactions deleted
  03/07/07@12:00 AM  Deleting error logs...
  03/07/07@12:00 AM  0 error logs deleted
  03/07/07@12:00 AM  Deleting DBA Messages ...
  03/07/07@12:00 AM  89 DBA messages deleted
  03/07/07@12:00 AM  Deleting API trace messages...
  03/07/07@12:00 AM  158 API Trace messages deleted
  03/07/07@12:00 AM  Deleting file image records...
  03/07/07@12:00 AM  76 file image records deleted
  03/07/07@12:00 AM  Deleting login failure records..
```

Transaction Logs

If you select Transaction Logs, the following screen is displayed:

```
SYSTEM MANAGER OPTIONS
      UTILITIES
            TRANSACTION LOGS
                       Select option
      COMPILE QUERY LOG
      COMPILE STATISTICS LOG
      ERROR LOG
      FILE IMAGE TRANSACTIONS
      IMPORT TRANSACTIONS
      LOCK HISTORY LOG
      QUERY TRANSACTIONS
      TABLE TRANSACTIONS
      VIEW TRANSACTIONS
```

The STAR Vista Transaction Logs are valuable tools that record and report system transactions and activity.

Compile Query Log

If you select this option, the following screen is displayed:

```
            COMPILE QUERY LOG    KB_SQL Vx.x


      Compile Query Log

 From date: 02/18/2006_____
 Thru date: 03/19/2006_____
 Show errors only? YES

  help=F1    skip=F4    undo=F10      keys=F3
```

Enter the date range to produce a log of the queries compiled during that period.

If you set **Show errors only?** to YES, the system displays only errors when you execute the Compile Query Log function. The results are displayed in Last Run date order. This allows you to review the results quickly to determine if the queries are accurate, or if they need to be corrected before executing them again.

File Image Transactions

The File Image Transactions log lists activities related to creating, saving, purging and deleting file images. You can display the results on screen or spool to a printer for a hard copy of the report.

To generate the report, you can:

• access the File Image List option in QRE Professional (4.4 or later) and select to print the report

- use the SQL_FILE_IMAGE table in the DATA DICTIONARY schema to develop your own SQL report

If you select this option, the following screen is displayed:

```
FILE IMAGE TRANSACTIONS  McKesson ER x.x    KB_SQL Vx.x


                    Send Results To
        * Device      File     Method     Quit




Send the results to the screen, a printer or other output device


  help=F1         enter=Enter    skip=F4        keys=F3
```

After you enter a device name, the following screen is displayed:

```
           FILE IMAGE TRANSACTIONS   McKesson ER x.x  KB_SQL Vx.x

      FILE IMAGE TRANSACTIONS

 From date: 02/18/2006_____
 Thru date: 03/19/2006_____

  help=F1    skip=F4    undo=F10      keys=F3
```

Enter desired date range to limit results returned. After you enter a date range, the log is executed.

An example of the log is displayed below:

```
                  KB_SQL File Image Transaction Log
                  From date 03/21/2005 thru 03/27/2005
                  Printed on 03/28/2005 at 02:52 PM
   Time  Query                             Type     User                ImageId
-------------------------------------------------------------------------------
Date:  03/27/2005
11:45 PM  QB_DMW_TEST_IMAGEHOURLY_45       CREATE    HBO_DBA              2453
          0634: ImageId #2453 created with 10 rows, 201 characters
11:30 PM  QB_DMW_TEST_IMAGEHOURLY_30       CREATE    HBO_DBA              2452
          0634: ImageId #2452 created with 26 rows, 1652 characters
11:15 PM  QB_DMW_TEST_IMAGEHOURLY_15       CREATE    HBO_DBA              2451
          0634: ImageId #2451 created with 27 rows, 2625 characters
11:00 PM  QB_DMW_TEST_IMAGEHOURLY_00       CREATE    HBO_DBA              2450
          0634: ImageId #2450 created with 941 rows, 7528 characters
10:45 PM  QB_DMW_TEST_IMAGEHOURLY_45       CREATE    HBO_DBA              2449
          0634: ImageId #2449 created with 10 rows, 201 characters
10:30 PM  QB_DMW_TEST_IMAGEHOURLY_30       CREATE    HBO_DBA              2448
          0634: ImageId #2448 created with 26 rows, 1652 characters
```

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Lock History Log

The Lock History Log lists the history of set and clear operations for KB_SQL system locks. You can display the results on screen or spool to a printer for a hard copy of the report.

If you select this option, the following screen is displayed:

```
LOCK HISTORY LOG  McKesson ER x.x    KB_SQL Vx.x


                       Send Results To
           * Device      File     Method      Quit




Send the results to the screen, a printer or other output device


  help=F1         enter=Enter    skip=F4        keys=F3
```

After you enter a device name, the following screen is displayed:

```
           LOCK HISTORY LOG    KB_SQL Vx.x

       Lock History Log

 From date: 02/18/2006_____
 Thru date: 03/19/2006_____

  help=F1    skip=F4    undo=F10       keys=F3
```

Enter the desired date range to limit results returned. After you enter a date range, the following screen is displayed:

```
LOCK HISTORY LOG  McKesson ER x.x    KB_SQL Vx.x


                   Query Execute: SQL_LOCK_HISTORY_LOG
  0811: Query execute has been added to the background queue.
  0898: Query run Date=[05/12/06], Time=[3:13 PM]
                                             <return to continue>




   Name          Description                Ports


  help=F1         skip=F4         undo=F10       keys=F3
```

An example of the log is displayed below:

```
SQL_DBA_SYSTEM_LOCK_LOG

Time            User              Job             Message
-------------------------------------------------------------------------------

1500.39         DBA               254             BACKGROUND QUEUE:CLEAR
1457.19         DBA               254             BACKGROUND QUEUE:SET
1457.19         DBA               254             Message: VISTA 4.4
```

NOTE: The retention period for system lock transactions is controlled by the Delete
transaction logs after: parameter, which is the same setting that controls the
retention for transaction logs. To set the parameter, select **System Manager
Options > Configuration > Date/Time Limits > Delete transaction logs
after**.

Query Transactions

This option allows you to view or print summary or detailed query activity within a
defined time window.

```
SYSTEM MANAGER OPTIONS
     UTILITIES
            TRANSACTION LOGS
                 QUERY TRANSACTIONS
     Select option
      *QUERY TRANSACTIONS
      QUERY TX DETAIL
      QUERY TX SUMMARY
      QUERY TX WINDOW
```

• Query Transactions

If you select Query Transactions, you can print query transaction information. The
following screen is displayed:

```
QUERY TRANSACTIONS  McKesson ER x.x     KB_SQL Vx.x


                     Send Results To
          * Device      File      Method      Quit




Send the results to the screen, a printer or other output device


  help=F1          enter=Enter     skip=F4         keys=F3
```

After you enter a device name, the following screen is displayed::

```
      Query TRANSACTIONS

   From DATE: 03/04/07_____
   From TIME: 12:00 M_____

   Thru DATE: 03/11/07_____
   Thru TIME: 11:59 PM_____
```

The Query Transactions - Time Range Restriction feature allows you to enter a time range by entering information in the From TIME and Thru TIME fields. This restriction allows you to see just the items that are logged in a specific time period.

```
      Transaction Log Detail

   From DATE: 03/04/07_____
   From TIME: 12:00 M_____

   Thru DATE: 03/12/07_____
   Thru TIME: 11:59 PM_____
```

The Query Transactions - Default Thru Date feature defaults the Thru DATE field to the current day that allows you to easily generate a report about the most recent activity. You can manually enter a different day if necessary.

Enter desired date range to limit results returned. After you enter a date range, the log is compiled.

An example of the log is displayed below:

```
                    KB_SQL Query Transaction Log
                  From date 04/15/2006 thru 05/14/2006
                   Printed on 05/15/2006 at 08:59 AM

   Time
Query                                Type       User
                            Total Time  # searched  # selected    # pages
           ERROR_TEXT
--------------------------------------------------------------------------------


Date:  05/14/2006
11:45 PM
QB_TEST_RJD_STARTDATE                RUN         HBO_DBA
                            0:00:00        26          26           1
11:00 PM
QQ_MCK_HBI_CENSUS                    RUN         HBO_DBA
                            0:00:27       887         382           1
   Message:   0632: Export completed '/hbo/sql/ftp/files/HRLYCENSUS.TXT'
              created with 383 entries
11:00 PM
page 1, press ENTER to continue, SPACE to stop>
```

- Query Transactions Detail

  If you select Query Transactions Detail, you can print detailed query transaction information. The following screen is displayed:

```
QUERY TRANSACTIONS DETAIL  McKesson ER x.x     KB_SQL Vx.x


                    Send Results To
         * Device     File     Method     Quit




Send the results to the screen, a printer or other output device


   help=F1          enter=Enter     skip=F4         keys=F3
```

  After you enter a device name, the following screen is displayed:

```
QUERY TRANSACTIONS DETAIL

        Transaction Log Detail

   From date: 06/28/2011_____
   From time: 0000_____

   Thru date: 07/05/2011_____
   Thru time: 2359_____

     Show diagnostics? YES
  Show output detail? YES
     Show variables? YES
       Show SQL text? NO_
```

  - The Query Transactions Detail - Time Range Restriction feature allows you to enter a time range by entering information in the From TIME and Thru TIME fields. This restriction allows you to see just the items that are logged in a specific time period.

  - The Query Transactions - Default Thru Date feature defaults the Thru DATE field to the current day that allows you to easily generate a report about the most recent activity. You can manually enter a different day if necessary.

- Show Diagnostics

    If you set **Show diagnostics?** to YES, the last run date of the subquery is
    displayed in the Diagnostics section of the log. For example:

    ```
                            SQL_TXLOG_DETAILED
    ---------------------------------------------------------
    QB_MCK_45_MAIN_QUERY              RUN          HBO_DBA
       Start: 03/08/2006@09:54 AM  Stop: 03/08/2006@09:54 AM
       Searched: 63  Selected: 63


     ========Diagnostics========
       Message:  907: SubQuery [QB_MCK_45_SUB_QUERY](63)
    ```

    In addition, the number of times a subquery executes is also tracked for testing
    and troubleshooting purposes. In the example above:

    Message: 907: SubQuery [QB_MCK_45_SUB_QUERY](63)

    where (63) at the end of the line indicates the subquery was executed 63 times.

    The last run date for subqueries is displayed in the following example as well
    as on the Info tab in the SQL Editor and in GUI format under Query Properties
    in QRE Professional.

    ```
                          Query Information
     Query name: QB_MCK_45_SUB_QUERY_____ Routine: BRS911____
    Description: _____
    Run message: _____
      Last edit= 03/08/2006_ At 09:52 AM___ By HBO_DBA_____
       Compiled= 03/08/2006_ At 09:52 AM___ By HBO_DBA_____
            Run= 03/08/2006_ At 09:54 AM___ By HBO_DBA_____
    ```

- Show variables

    If you set **Show variables?** to YES, the report formats DATE, TIME, and FLAG
    data type variables (which previously displayed as internal values). This allows

you to more easily identify and evaluate the READ variables the user entered for the query.

```
                        SQL_TXLOG_DETAILED
    ------------------------------------------------------------
    Start: 03/08/2006@05:40 PM  Stop: 03/08/2006@05:40 PM
    Searched: 3487  Selected: 3389
    =========Variables=========
    GR:
    H%:
    ID:            #32547
    RT:            3
    SL:            99
    SQLSP:
    XACC:          C
    XACCDT:        (1) YES      -flag
    XCHR:          7
    XDATE:         (60332) 03/08/2006   -date
    XMED:          CAR
    XTIME:         (63704) 05:41 PM   -time
    Y%:
    ZS:
```

The *-flag*, *-date*, and *-time* items are displayed on the example above for clarification. They are not printed on the actual report.

> **NOTE:**   You can also press F10 (undo) to exit this report.

- Show SQL text?

  Starting with Vista 5.3, a prompt is provided for the display of SQL query syntax for queries that were executed. The Disable store of SQL Statements? parameter must be set to NO.

• Summary of Query Transactions

If you select Query TX Summary, you can print or display a summary total of all queries executed within the transaction log retention days defined for your site, which is generally set to 7 days. Several additional drill-down options can be selected:

- Summary - Summary of transaction activity

- Date -Summary of transaction activity by DATE ; permits drill-down by USER and QUERY

- User - Summary of transaction activity by USER ; permits drill-down by DATE and QUERY

- Query - Summary of transaction activity by QUERY ; permits drill-down by DATE and USER

An example of Summary:

```
QUERY TX SUMMARY   McKesson ER 16.0 / KB_SQL 5.3 KB_SQL V5.3

\SUMMARY\
                    Select SQL_SP_TX
     TX_CNT       TX_SEA       TX_SEL       TX_PCT       TX_TIME
*       489       593102       362777         61.2         25:35
```

An example of a DATE drill down follows. USER AND QUERY drill-downs present
similar screens.

```
QUERY TX SUMMARY
\DATE\
 Select SQL_SP_TX_DATE
 TX_DT           TX_CNT        TX_SEA       TX_SEL       TX_PCT       TX_TIME
*2011-06-29          28         78238        48054         61.4           :25
 2011-06-30           4            24           24        100.0         01:14
 2011-07-01         178        179338       112375         62.7         06:42
 2011-07-02          56         80571        49596         61.6           :27
 2011-07-03          57         80672        49696         61.6           :29
 2011-07-04          56         80571        49596         61.6           :28
 2011-07-05         121         97290        53479         55.0         15:50
```

- Query Transactions by Date Window

  If you select Query TX Window option, you are prompted for a Begin and End date
  and time window. The query name displays at the bottom of window as you scroll
  down through each item in list.

```
QUERY TX WINDOW
Date Window Begin: 2011-06-28 00:00:00
  Date Window End: 2011-07-05 00:00:00

        Select SQL_SP_TX_ID_BY_DATE_WINDOW
     TX_ID       TX_SEA       TX_SEL       TX_PCT       TX_TIME TX_W
    335994        76662        46479         60.6           :23    1
    336075        76662        46479         60.6           :25    1
    336134        76662        46479         60.6           :18    1
    336268        76662        46479         60.6           :22    1
    336328        76662        46479         60.6           :22    1
*   336389        76662        46479         60.6           :22    1
    336066         2372         1921         81.0           :03    1
    336076         2372            0          0.0           :06    1
    336195         2372         1921         81.0           :02    1+


QB_DMW_TEST_IMAGE_FILENAME
```

TX_ID	Internal Transaction Identifier
TX_SEA	Records Searched
TX_SEL	Records Selected

TX_PCT	Percentage of Records Selected out of Records Searched
TX_TIME	How long query took to execute
TX_W	Internal KBS use only

Pressing ENTER on a selected item takes you into the Detailed Query Transaction Log display.

SYSTEM STATUS

This option displays a summary of the current status of the system. Function-specific information is provided in applicable sections of this reference guide. Detailed information about the tool is located in manuals produced by Knowledge Based Systems, Inc.

VERSION INFORMATION

This option displays version information for the system.

MCKESSON DATABASE ACCESS

Each global within McKesson's STAR series product line is mapped into a set of application-specific tables. Using STAR Vista Reporting, these tables can be combined to extract data from multiple applications.

Tables are named with prefixes that indicate their source applications. SQL utilities provide help when writing queries. For example, when you are writing a query and wish to list all tables for the Advanced Microbiology module, enter LM for a list within a selection window of all tables pertaining to that part of the STAR Laboratory application.

Since the McKesson's data dictionary is, in itself, a set of tables, it is possible for the database administrator to write queries to inspect the contents of the data dictionary, and to identify the application-specific tables.

Changes to the current product are implemented by means of the release process. The release process provides continual updates and enhancements to your existing software.

The naming conventions in use for all McKesson STAR products follow.

Naming Conventions

Shown below are the naming conventions for STAR Vista Reporting tables and queries currently in use. The table names use the format of P_MC_DESC, where P is the product code, MC is the module (within the product) code, and DESC is the description(s) of the table. For example: In the table name AG_PAT_NM_IDX, AG represents ALLSTAR General products, PAT represents patient information, NM is the abbreviation for the patient's name, and IDX symbolizes that this is an index to a table. The query names use the format of QPM_DESC, where Q indicates this is a query, PM represents the product module, and DESC is any further description(s) of the query. An asterisk (*) indicates all descriptive extensions of queries and tables.

WARNING: McKesson supplies, at the time of installation and/or releases, predefined queries. If you want to modify a McKesson query, you must first use the Copy Query function and rename your query using the user-defined naming schemes. This is necessary to avoid integrity problems at a future date.

STAR FINANCIALS

Accounts Payable

Query Names	Table Names
QGBAL_*	G_* Balancing
QGREC_*	G_* Bank Reconciliation
QGCKCD_*	G_* Check Codes
QGCKHIS_*	G_* Check History
QGEMP_*	G_* Employee Productivity
QGPAR_*	G_* Entity Parameters
	G_* Federal Reporting Parameters
	G_* GL Related Parameters
	G_* Intercompany Accounts
QGINV_*	G_* Invoice/Vouchers
QGVEND_*	G_* Vendor Master

Payroll/Human Resources

Query Names	Table Names
QHP_*	HA_* Master and Parameters
QHH_*	HD_* Employee Demographics
	HE_* Employee Data
	HI_* Requisition Information
	HP_* Payroll Process

Materials Management

Query Names	Table Names
QI_*	I_* Item Master
	I_* Item Location Master
	I_* Item Location Master Index
	I_* Item Vendor Master
	I_* Vendor Master

General Ledger

Query Names	Table Names
QJACC_*	J_* Account Master
QJSTAT_*	J_* Account Statistics
QJDEPT_*	J_* Department Master
QJENT_*	J_* Entity Master
QJFY_*	J_* Fiscal Year Definition
QJRJE_*	J_* Recurring Journal
QJRW_*	J_* Report Writer
QJSTD_*	J_* Standard Journal
QJSUB_*	J_* Subaccount Master
QJSUM	J_* Summary Journal
JRL_*	

Patient Accounting

Query Names	Table Names
QFA_*	FA_* Patient Information
QFT_*	FT_* Transaction History
QFQ_*	FQ_* Internal Elements
QFD_*	FD_* Contract Information
QFV_*	FV_* Financial Tables
QFAR_*	FAR_* Archive Data
QFC_*	FC_* Charge Data
QFF_*	FF_* Account Follow-up
QFB_*	FB_* Billings and Claims
QFL_*	FL_* Logs

STAR PATIENT CARE

Query Names	Table Names
QAG_*	AG_* ALLSTAR General Tables
QCC_*	CC_* Contract Management
QCD_*	CD_* Nursing
QCE_*	CE_* DRG & Abstracting
QCG_*	CG_* General
QCK_*	CK_* Scheduling
QCM_*	CM_* Chart Management
QCO_*	CO_* Order Management/Charging
QCR_*	CR_* Departmental Profiling
QCU_*	CU_* Utilization Review

STAR LABORATORY

Query Names	Table Names
QLB_*	LB_* Blood Bank Tables
QLB_*	LC_* Client Billing Tables
QLG_*	LG_* General Lab Tables
QLM_*	LM_* Advanced Microbiology Tables
QLS_*	LS_* Surg Path Tables

STAR PHARMACY

Query Names	Table Names
QP_*	P_* All Pharmacy
	PA_* Ambulatory Care
	PG_* General Application

STAR RADIOLOGY

Query Names	Table Names
QXA_*	XC_* Check-in Information
QXF_*	XG_* General Information
QXFR_*	XF_* Film Room Information
QXOP_*	XQ_* QC Information
	XR_* Request Information

User-Defined

Query Names	Table Names
QB_*	B_*

Chapter 2 - INSTALLING AND CONFIGURING STAR VISTA REPORTING SOFTWARE AND ODBC

STAR Vista Reporting/SQL Reference Guide
October 2012   *Release 18.0*   *2–1*
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INTRODUCTION

This section provides information and instructions for installing the STAR Vista Query Reporting Environment (QRE) and the KB_SQL ODBC Driver software. The ODBC driver is required to connect a PC running Microsoft Windows to a STAR MUMPS database server running KB_SQL in order to use QRE or other ODBC-compliant packages such as Crystal Reports and Microsoft Access.

The audience includes the hospital database administrator, the IS department, and any others responsible for the installation and support of KB_SQL.

The section is organized as follows:

Configure STAR CPU for ODBC Access	• Identify CPU TCP/IP address • Configure Server Options • Identify Server and Alternate TCP ports • Configure Server (Listener) Port • Configure Alternate Ports
Install and Configure ODBC Driver and Data Source Name (DSN) on PC	• Run the ODBC Setup software on the PC • Configure Data Source with appropriate name • Configure DSN with STAR CPU TCP/IP address • Configure DSN with the ODBC TCP Listener port
Install Query Reporting Environment (QRE)	• Run the QRE Setup software on the PC
Test ODBC and QRE	• Run QRE from desktop icon • Enter KB_SQL User Name and Password • Access QRE

STAR VISTA OPEN DATABASE CONNECTIVITY

Open DataBase Connectivity (ODBC) is an industry standard interface protocol developed by database software vendors and Microsoft to allow compatible Windows-based applications to interact with enterprise Database Management Systems such as STAR. STAR Vista Reporting includes an ODBC driver that is compliant with Microsoft's latest Software Development Kit (SDK) for 32-bit ODBC driver.

CONFIGURATION AND INSTALLATION CONSIDERATIONS

Following are the steps and recommendations for:

- configuring the STAR Vista Reporting ODBC Server

- installing the KB_SQL ODBC Driver software

- installing the STAR Vista Query Reporting Environment (QRE)

McKesson recommends you perform the configuration and installation in the following order:

1.

2.

3.

4.

CONFIGURING THE STAR CPU FOR ODBC

This section details the setup required on the STAR CPU for ODBC. The ODBC configuration is specific to each STAR ID. Therefore, complete these steps in both ID 1 and ID 2, as appropriate.

1. Using your DBA access, select the **Configuration** menu option from the DBA Options menu.
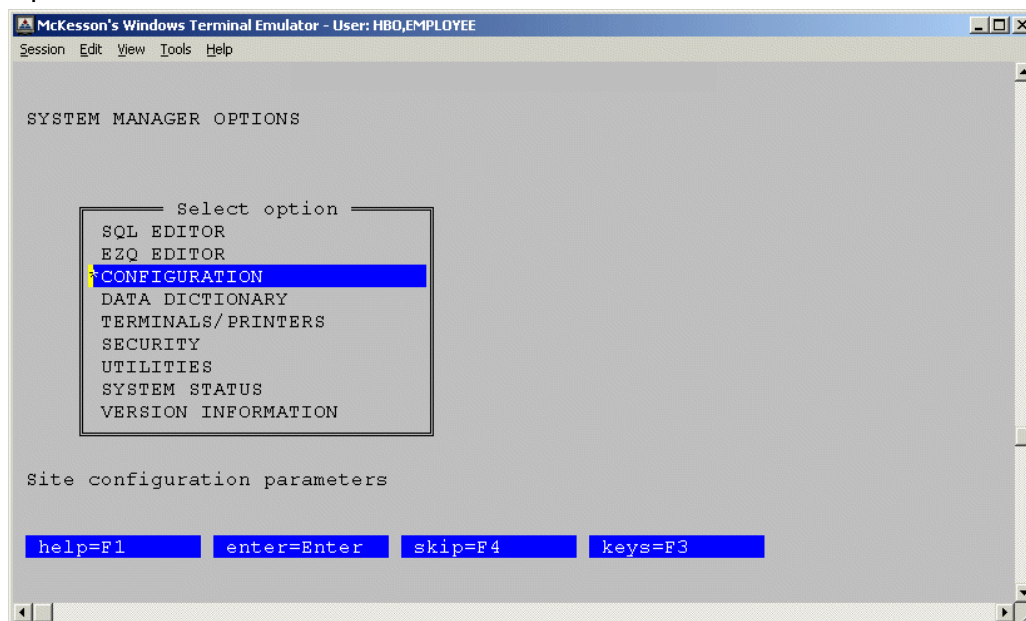
2. Select the **Server Info** menu option.
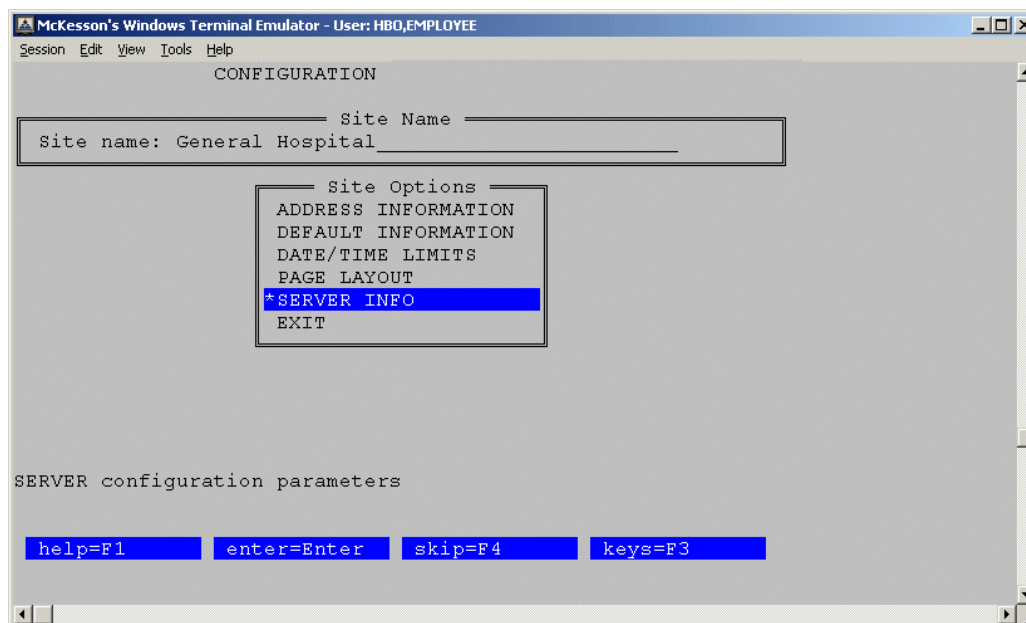
3. Enter the following Server Information options:
    Allow Connections: **YES**
    Disable auto start: **NO**
    Trace API Calls: **NO**
    Edit network configuration: **YES**
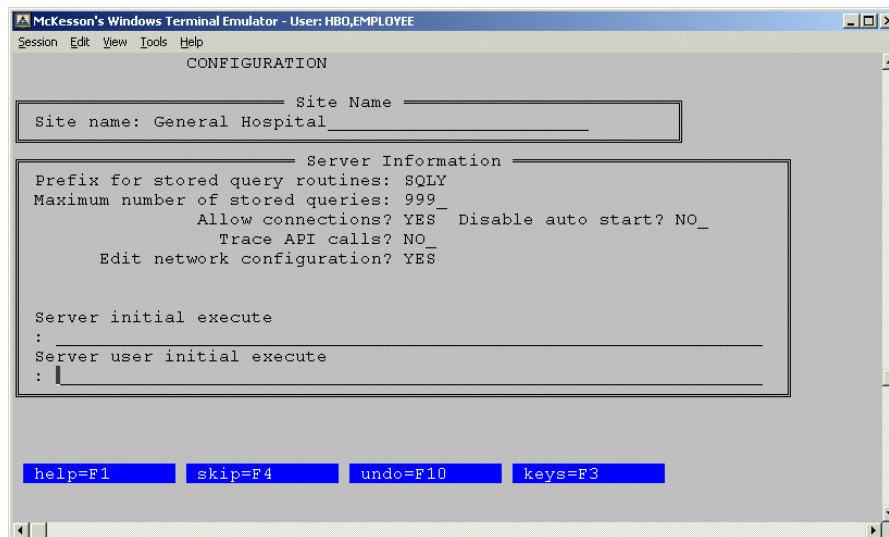
4. Press ENTER to access the TCP Defaults prompt and press ENTER through each default.

5. Enter the following TCP Host Information:
    Host name: STAR CPU Domain Name (for example, FIN, MED, CLN, etc.)
    IP address: STAR CPU IP Address
    Description: As appropriate
    Local host: **YES**
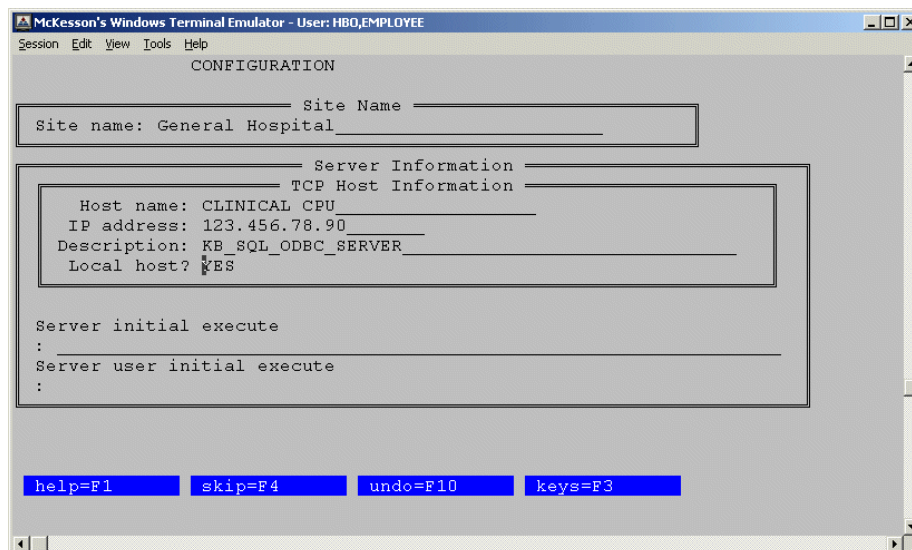
6. When prompted to Add Ports, select **YES**.

    To add the Host Port Server (listener) port, enter the appropriate TCP Port number and enter **YES** at the Port Server prompt.

    Press F11 (Insert) to add each of the ODBC Client (alternate) ports and enter the appropriate alternate TCP Port number and **NO** at the Port Server prompt.

NOTE: Enter valid TCP Ports for your system. McKesson recommends using port 5100 as the listener port in ID 1 and port 5200 in ID 2. For alternate ports to be added, number sequentially beginning with 5101 in ID 1 and 5201 in ID 2.
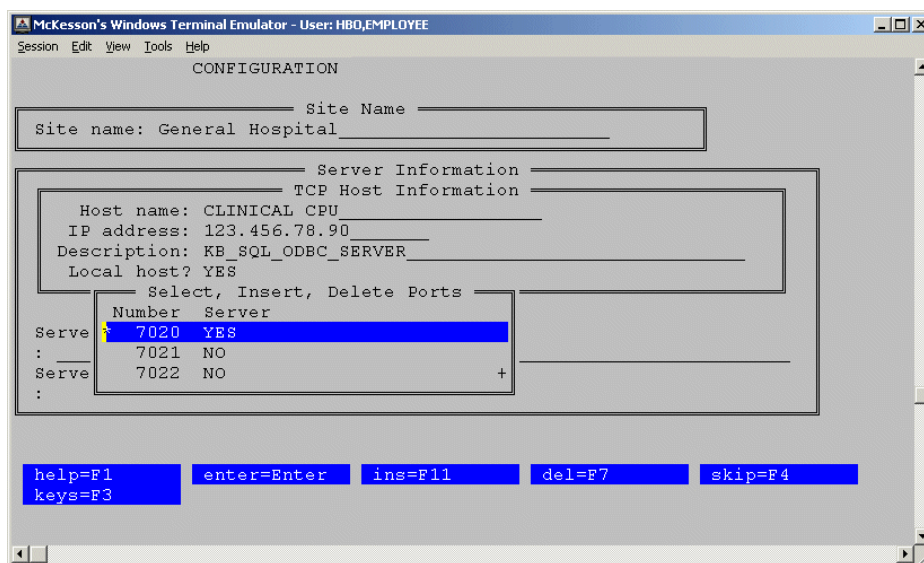
NOTE: McKesson recommends adding only one listener port (Port server = YES) per ID and creating a sufficient number of alternate ports (Port Server = NO) considering some ODBC client applications (such as Microsoft Office applications, Crystal Reports, etc.) can spawn multiple ODBC sessions.

After adding sufficient alternate ports, press F4 three times to exit the KB_SQL Server Information screens. From the Site Options menu, select **Exit** and enter **YES** to Commit.

7. To enable the KB_SQL ODBC Server, select **System Status**.
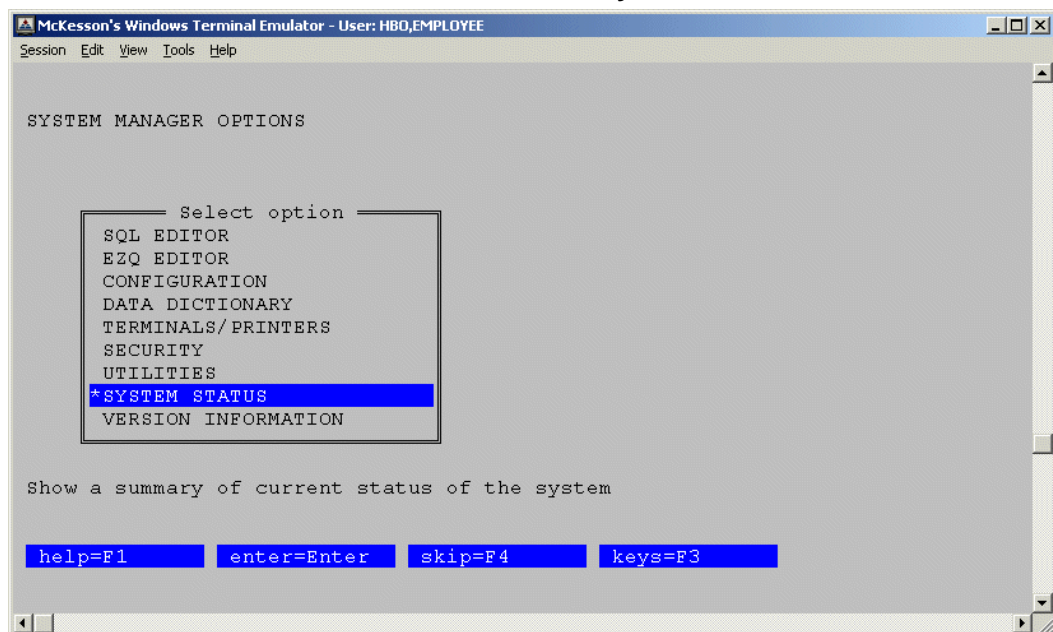
8. Enter **YES** at the Examine system status prompt.
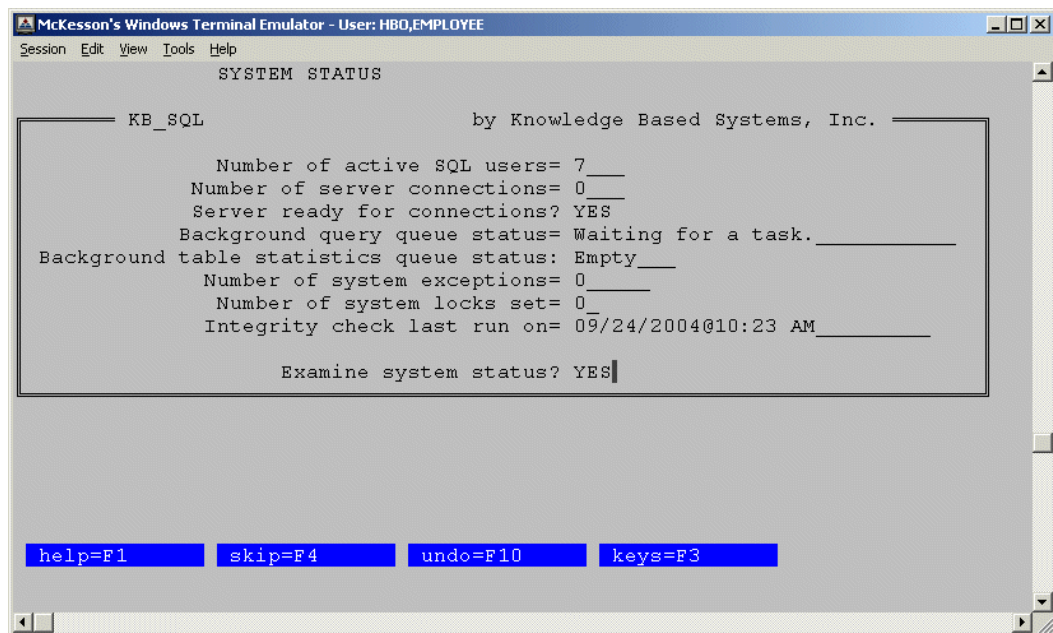
9. Select **Server Options**.
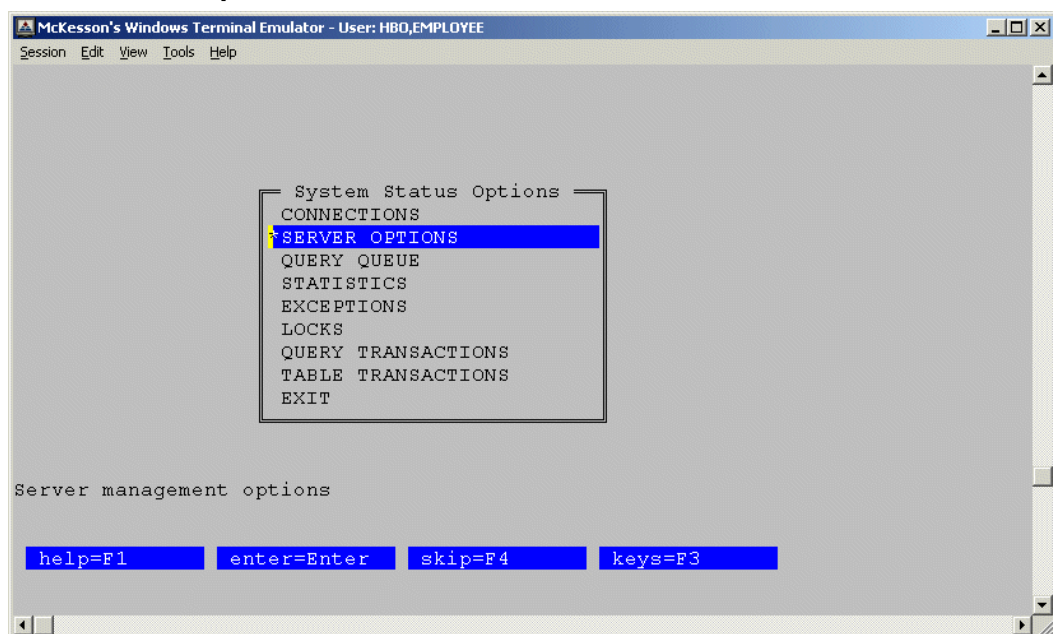
10. Select **Enable Server**.
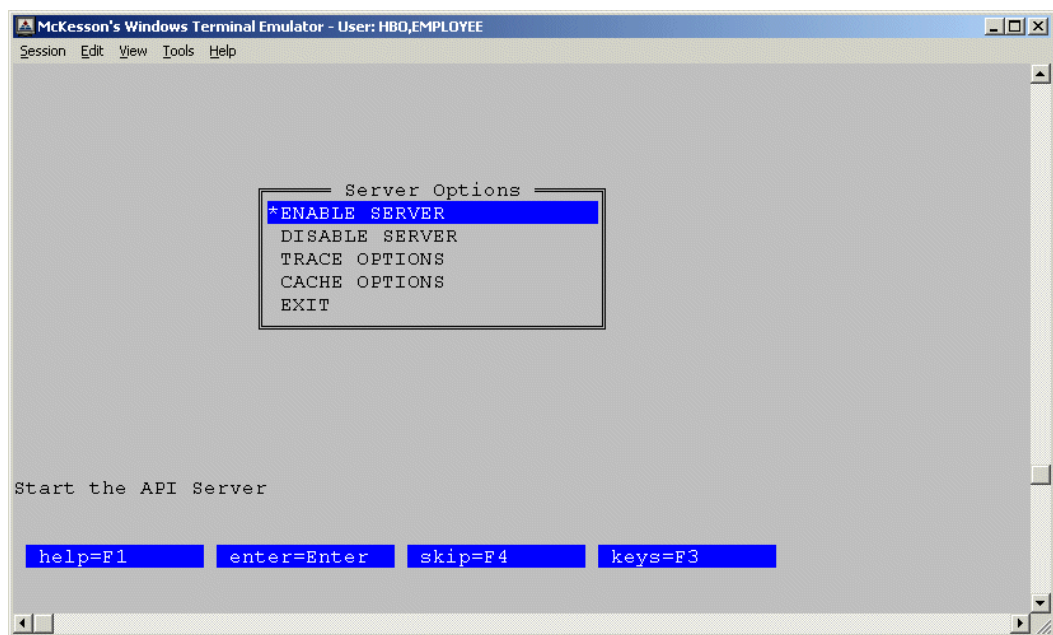
The KB_SQL ODBC Server is now enabled.

INSTALLING AND CONFIGURING THE KB_SQL ODBC DRIVER

The ODBC driver provides access to the STAR system for applications such as the Query and Reporting Environment (QRE) and other ODBC-enabled Windows applications.

NOTE: McKesson strongly recommends that you exit all Windows programs on your PC before running the setup program.

1. Load the STAR Vista Reporting CD in the CD_ROM drive. From Windows Explorer, select and double-click on the CD_ROM Drive.

2. Open the applicable ODBC folder. For example, ODBC45 is the folder for the STAR Vista 4.5 ODBC driver.

3. Double-click KB_SQL ODBC Driver Vxx_Build_1409.exe where Vxx indicates the STAR Vista version and bbbb indicates the specific build number. For example, V46 is STAR Vista 4.6 version and Build_bbbb.exe is a software build number. The following screen is displayed:

4. Click **Next** to proceed or **Cancel** to exit without installing ODBC. If you click Next, the following screen is displayed:
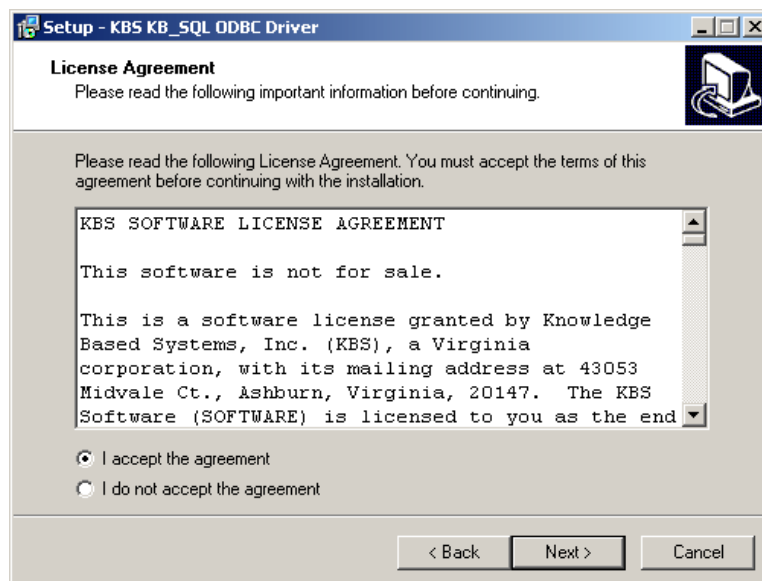
5. Read the agreement, select **I accept the agreement** and click **Next**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation. If you click Next, the following screen is displayed:
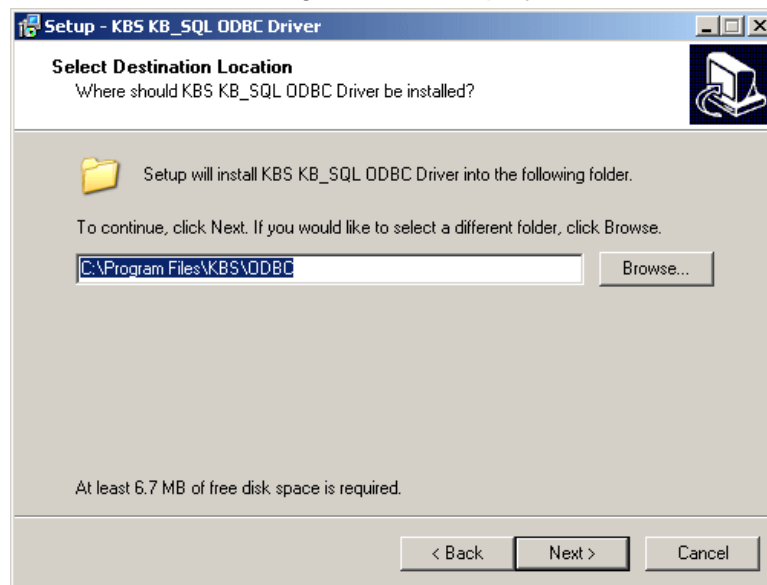
6. Select the desired destination folder and click **Next**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation. If you click Next, the following screen is displayed:
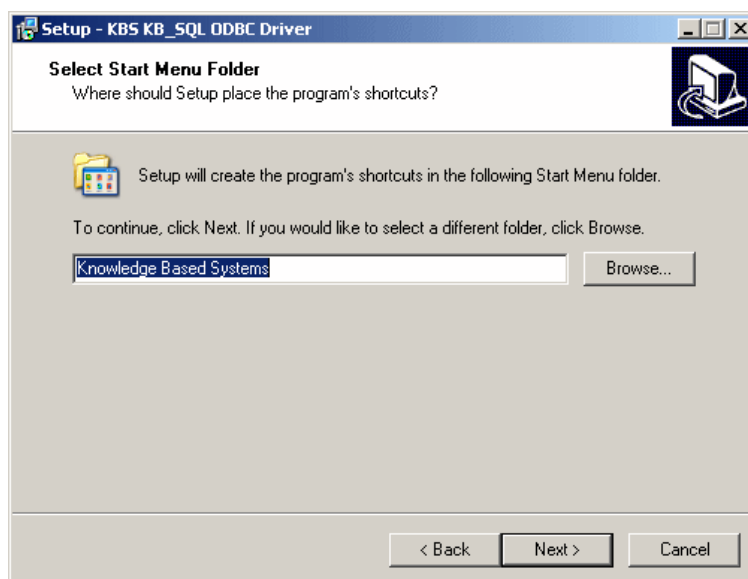
7. Select the desired Start Menu folder and click **Next**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation. If you click Next, the following screen is displayed:
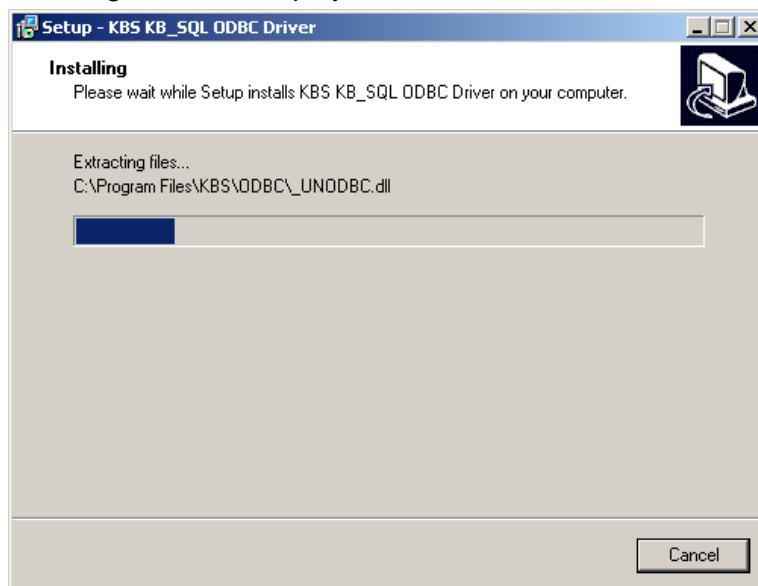
8. A progress bar indicates the status of the installation. You can click **Cancel** to exit the installation. If you do not click Cancel and the installation proceeds, the following screen is displayed:
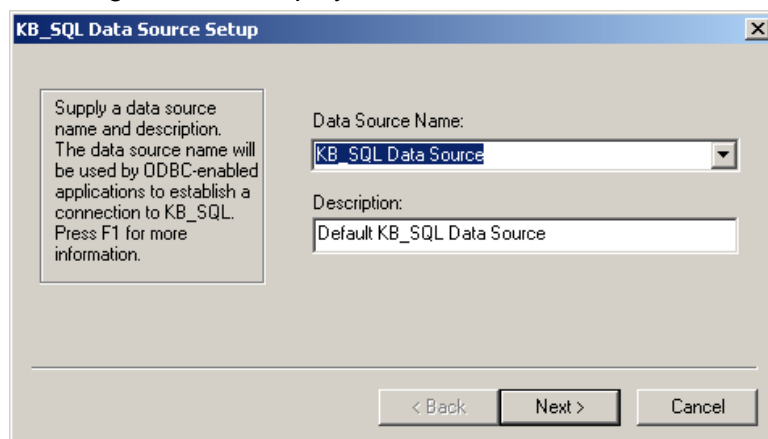
9. Select the appropriate Data Source Name from the drop-down list.

10. Enter a description of the data source and click **Next**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation. If you click Next, the following screen is displayed:
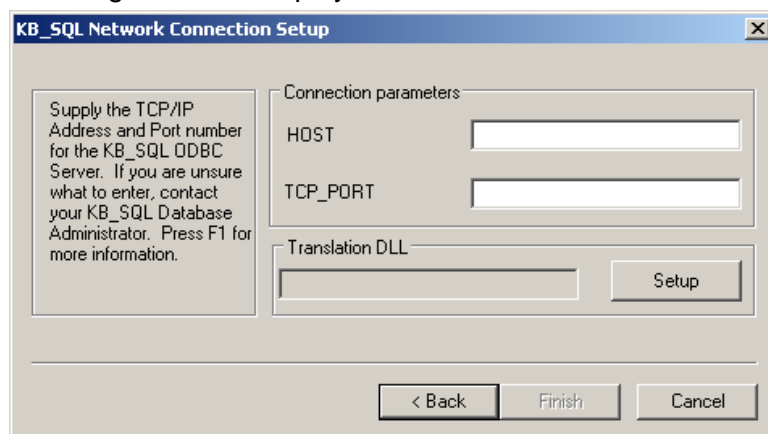
11. Enter the HOST IP address. (The HOST IP address must match the STAR CPU IP address defined in your STAR Server Configuration.) Enter the TCP PORT number. (The TCP PORT number must match the Host Port Server (listener) port defined in your STAR Server Configuration.) Click **Finish**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation.

   NOTE: No Translation DLL Setup configuration is required.

12. If you click Finish, the following screen is displayed:

13. Click **Finish** to complete the installation.

CONFIGURING THE STAR CPU FOR QRE PROFESSIONAL

This section details the setup required on the STAR CPU for QRE Professional using the KB_SQL ADO.NET Data Provider with Release 5.0. This configuration is the same that is used for ODBC connectivity to STAR. If you have used QRE or ODBC connections to STAR previously, you may not need to make any changes to this configuration. However, you will want to verify the HOST IP address and Server Port. This configuration is specific for each STAR ID or environment.

NOTE: With previous upgrades, you could not have multiple release versions of the ODBC driver and QRE software on your PC. Due to the different platform for Release 5.0 of QRE Professional, you are not required to remove the 4.6 ODBC driver and 4.6 QRE software before installing the QRE version 5.0.

1. Using your DBA access, select the Configuration menu option from the DBA Options menu.
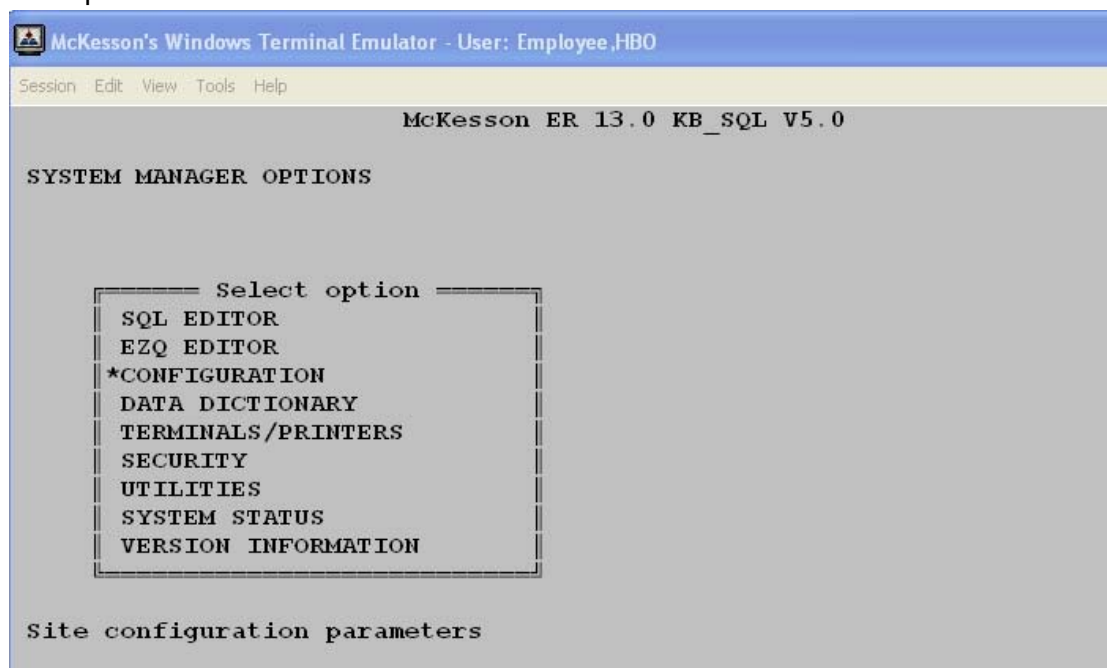
2. Select the Server Info menu option.
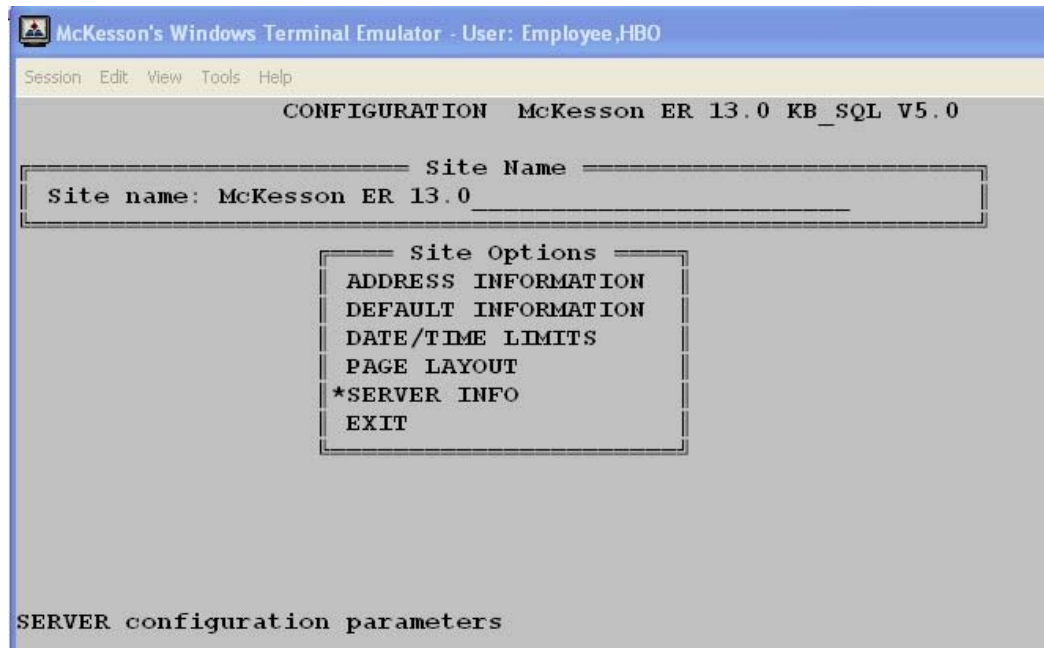
3. Enter the following Server Information options:

Allow Connections: YES

Disable auto start: NO

Trace API Calls: NO

Edit network configuration: YES

```
 Session  Edit  View  Tools  Help
            CONFIGURATION   McKesson ER 14.0 5.1.7418 KB_SQL V5.1

 ══════════════════════════ Site Name ══════════════════════════
 Site name: McKesson ER 14.0 5.1.7418_____

 ════════════════════════ Server Information ═══════════════════
 Prefix for stored query routines: SQLY
 Maximum number of stored queries: 999_
                Allow connections? YES_  Disable auto start? NO_
                  Trace API calls? NO_   Filter bad data? NO_
       Edit network configuration? NO_



 Server initial execute
 : D ^SQLASIE_____
 Server user initial execute
 : _____
```

4. Press ENTER to access the TCP Defaults prompt, and press ENTER through each default.

5. Verify or enter the following TCP Host Information:

    Host name: STAR CPU Domain Name (for example, FIN, MED, CLN, etc.)

    IP address: STAR CPU IP Address

    Description: As appropriate

    Local host: YES

6. Verify Ports have been defined or when prompted to Add Ports, select YES.

7. To add a Host Port Server (listener) port, enter the appropriate TCP Port number and enter YES at the Port Server prompt.

8. Press F11 (Insert) to add ODBC Client (alternate) ports and enter the appropriate alternate TCP Port number and NO at the Port Server prompt.

NOTE: Enter valid TCP Ports for your system. McKesson recommends using port 5100 as the listener port in ID 1 and port 5200 in ID 2. For alternate ports to be added, number sequentially beginning with 5101 in ID 1 and 5201 in ID 2.

McKesson recommends adding only one listener port (Port server = YES) per ID and creating a sufficient number of alternate ports (Port Server = NO) considering that some ODBC client applications (such as Microsoft Office applications, Crystal Reports®, etc.) can spawn multiple ODBC sessions.

9. After adding sufficient alternate ports, press F4 three times to exit the KB_SQL Server Information screens.

10. From the Site Options menu, select Exit and enter YES to Commit.

The Host IP address and the Host Port Server (listener) port information is used when adding connections in the New Connection Manager for QRE Professional 5.0.

INSTALLING QUERY REPORTING ENVIRONMENT (QRE)

QRE is a key component and feature of STAR Vista Reporting that provides users with a Windows-based development and reporting tool. QRE users connect to the STAR host CPU via an ODBC DSN connection and can create, delete, view, modify and run queries from/on the PC. For more information, see the Query and Reporting Environment section of the *STAR Vista Reporting/SQL Reference Guide*.

NOTE: McKesson strongly recommends that you exit all Window programs on your PC before running the setup program.

1. Load the STAR Vista Reporting CD in the CD_ROM drive. From Windows Explorer, select and double-click on the CD_ROM Drive.

2. Open the QRE Editor folder.

3. Double-click KBSQREProfessional_xx_Build_1059.exe where xx indicates the STAR Vista version and bbb indicates the specific build number. For example, 46 is STAR Vista 4.6 version and Build_bbbb.exe is the software build number. The following screen is displayed:

4. Click **Next** to proceed or **Cancel** to exit without installing QRE Professional. If you click Next, the following screen is displayed:
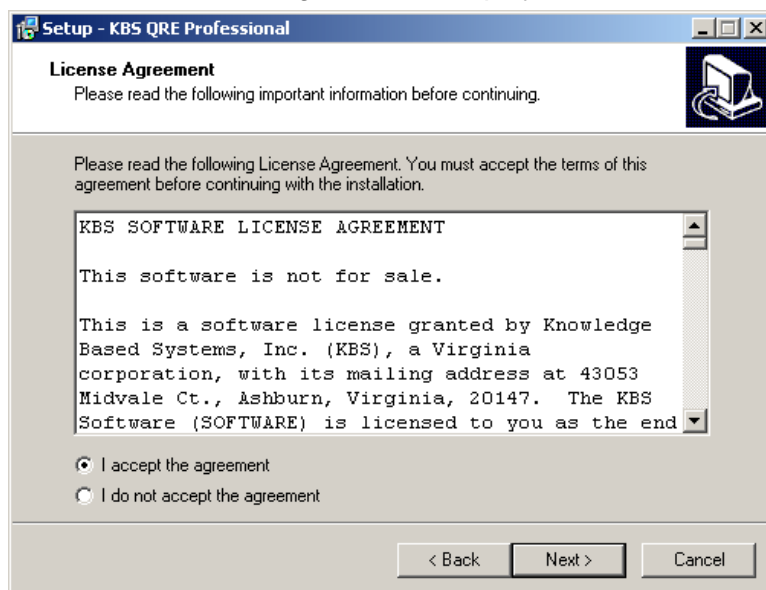
5. Read the agreement, select **I accept the agreement** and click **Next**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation. If you click Next, the following screen is displayed:
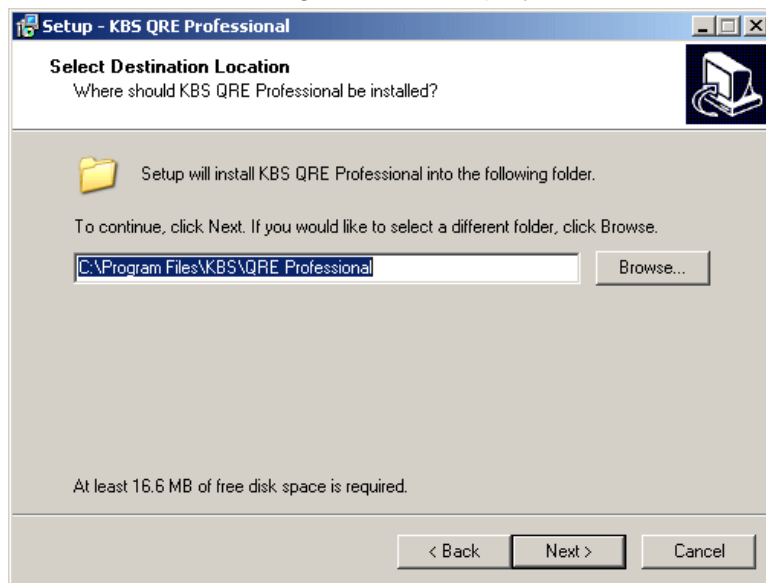
6. Select the desired destination folder and click **Next**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation. If you click Next, the following screen is displayed:
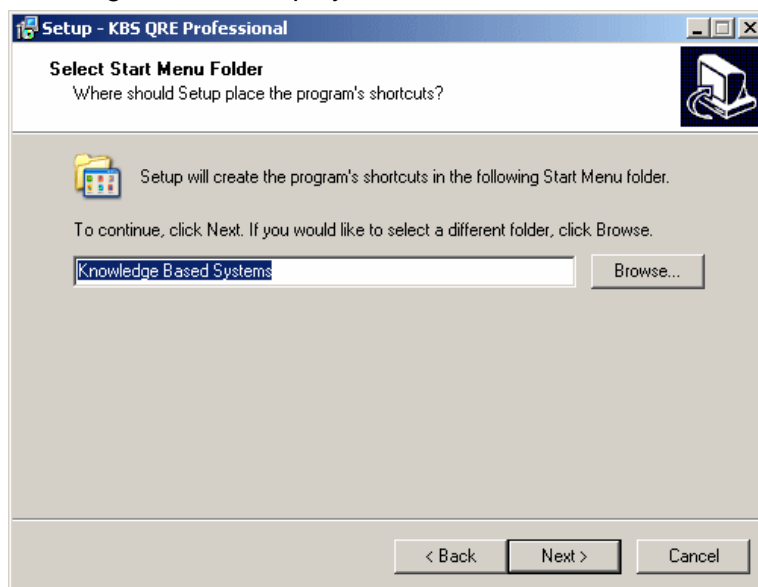
7. Select the Start Menu folder and click **Next**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation. If you click Next, the following screen is displayed:

8. Select the additional tasks to be performed and click **Next**. You can also click **Back** to return to a previous screen, or **Cancel** to exit the installation. If you click Next, the following screen is displayed:
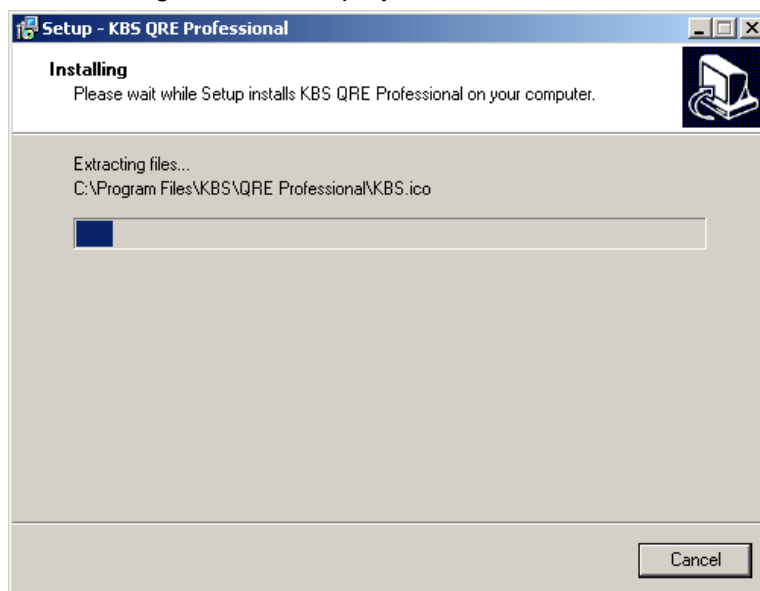
9. A progress bar indicates the status of the installation. You can click **Cancel** at any time to stop the install. If you do not Cancel the install, the following screen is displayed:

10. Click **Finish** to complete the install.

TESTING ODBC CONFIGURATION AND QRE INSTALLATION

To test the ODBC configuration and QRE installation, log on to QRE. For more information, see the "QUERY AND REPORTING ENVIRONMENT (QRE)" on page 5-4.

For information about error messages or tracing API calls, contact STAR Vista Reporting Support.

NOTE: An encrypted password in the TCP/IP packet is transmitted to the server.

To view encryption information, monitor the trace of ODBC messages passing back and forth between the server and the ODBC client. A network packet capture without encryption is:

SQLConnect("KB_SQL Data Source","dba","PASSWORD") = (0,"100034")

A network packet with encryption is:

SQLConnect("KB_SQL Data Source","dba","X"~","1") = (-1,"100034")

INSTALLING QUERY AND REPORTING ENVIRONMENT (QRE) VERSION 5.X

Beginning with release 5.0, QRE Professional uses C#.NET and the KB_SQL ADO.NET Data Provider. You must load the new 5.x version of the software but you do not need to install a new version of the ODBC driver.

NOTE: McKesson strongly recommends that you exit all Window programs on your PC before running the set-up program.

1. Load the STAR Vista reporting CD in the CD_ROM drive. From Windows Explorer, select and double-click on the CD_ROM drive.

2. Open the QRE Folder.

3. Double-click KBSQREPro_50.exe, and the Setup screen is displayed. Click Next to proceed or Cancel to exit without installing QRE Professional.
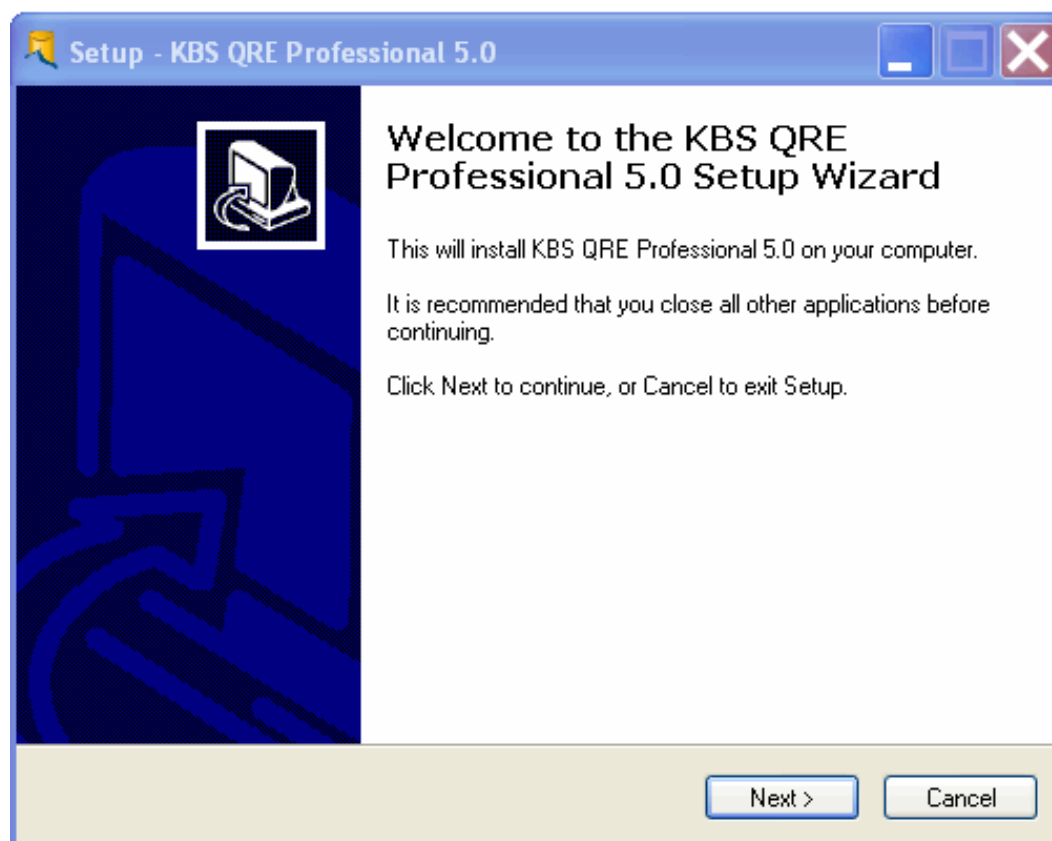
4. If you clicked Next, the following screen with the license agreement is displayed. Read the agreement, select I accept the agreement and click Next.
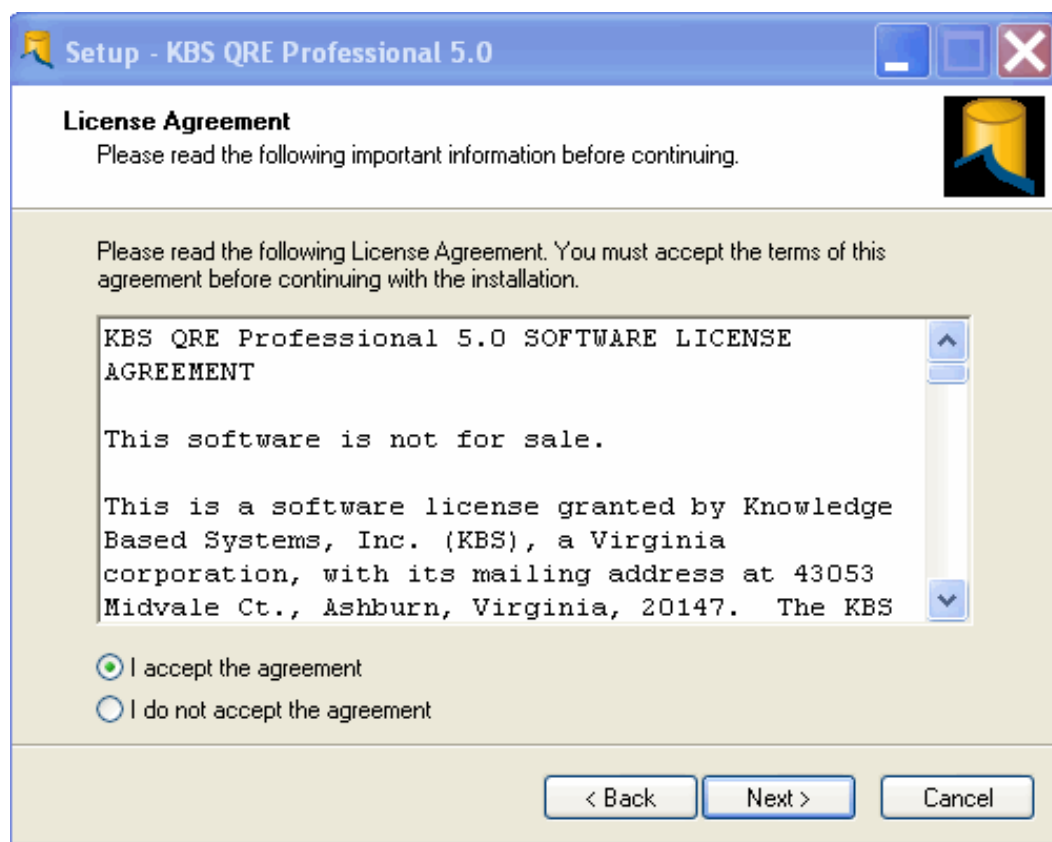
5. The following screen is displayed. Select the desired destination folder and click Next.
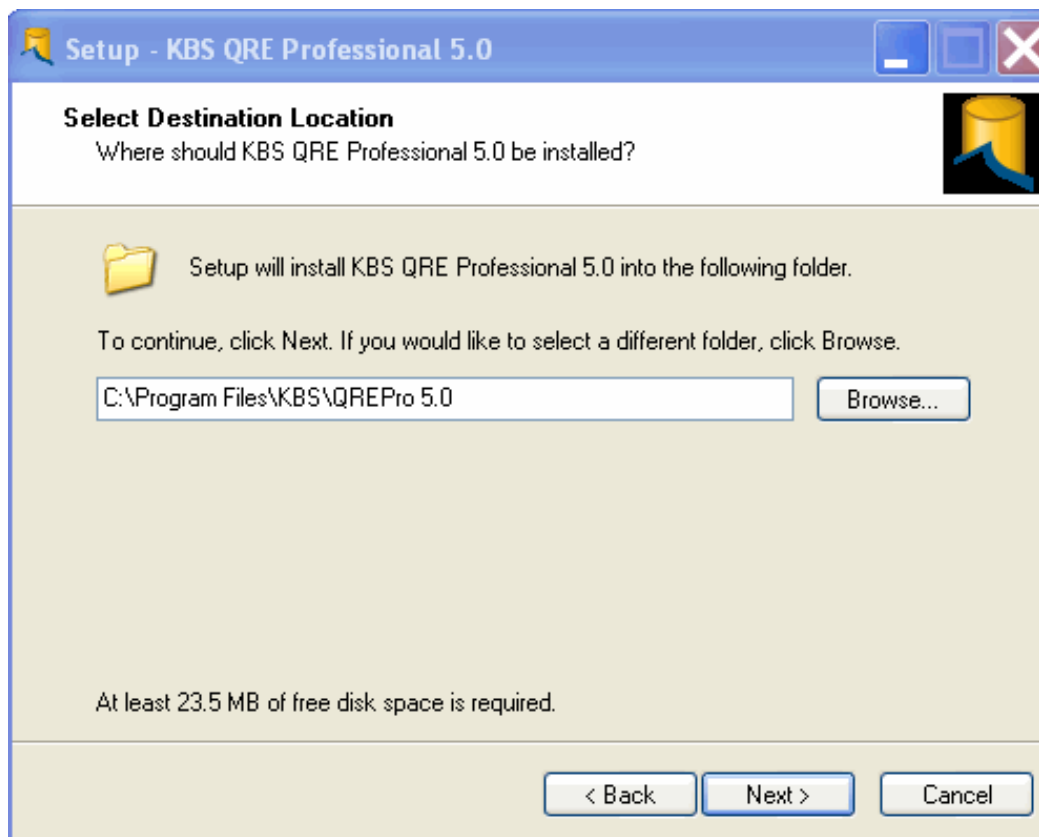
6. Select the Start Menu Folder, and click Next. You can also click Back to return to a previous screen or Cancel to exit the installation.
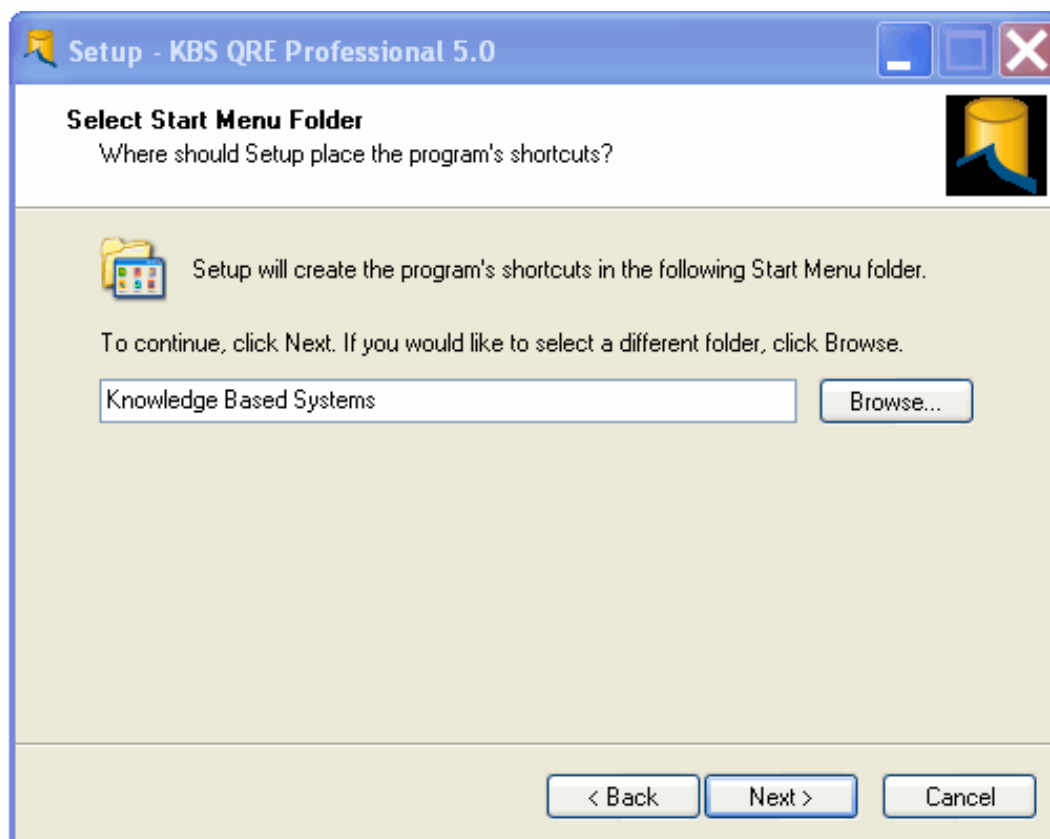
7. If you clicked Next, the following screen is displayed. Select the additional tasks to be performed and click Next. You can also click Back to return to the previous screen or Cancel to exit the installation.
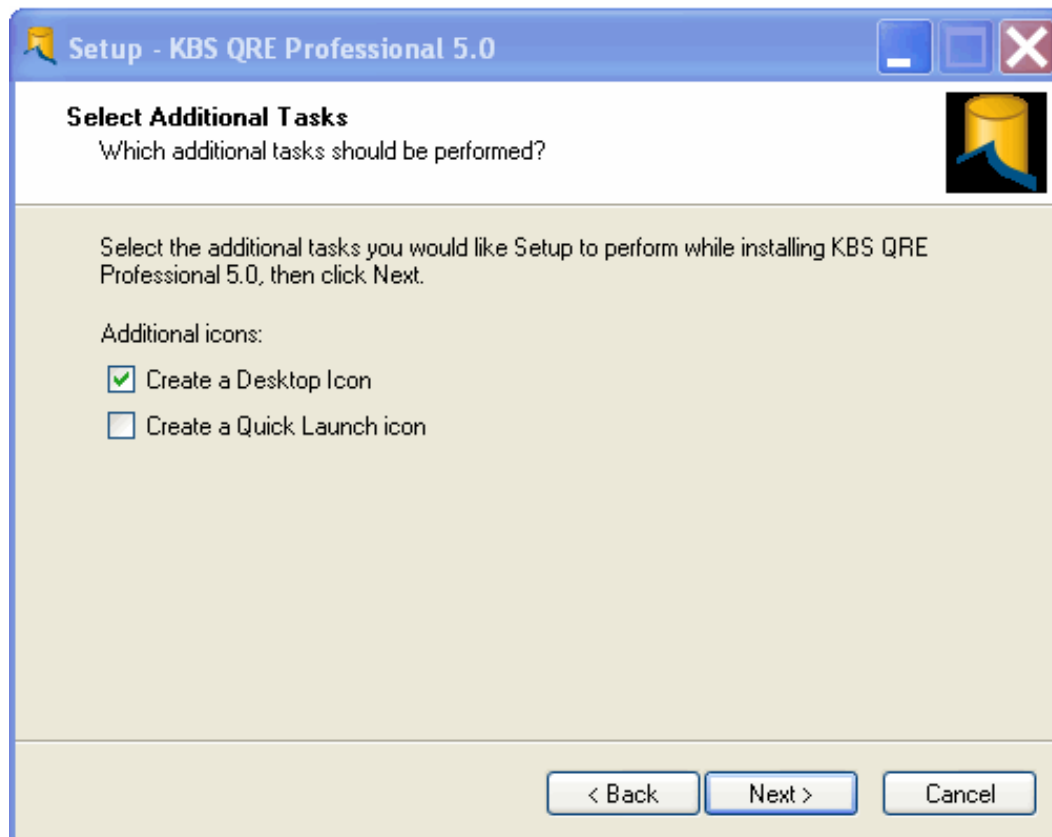
8. If you clicked Next, the following screen is displayed. Click Install to proceed with the implementation.
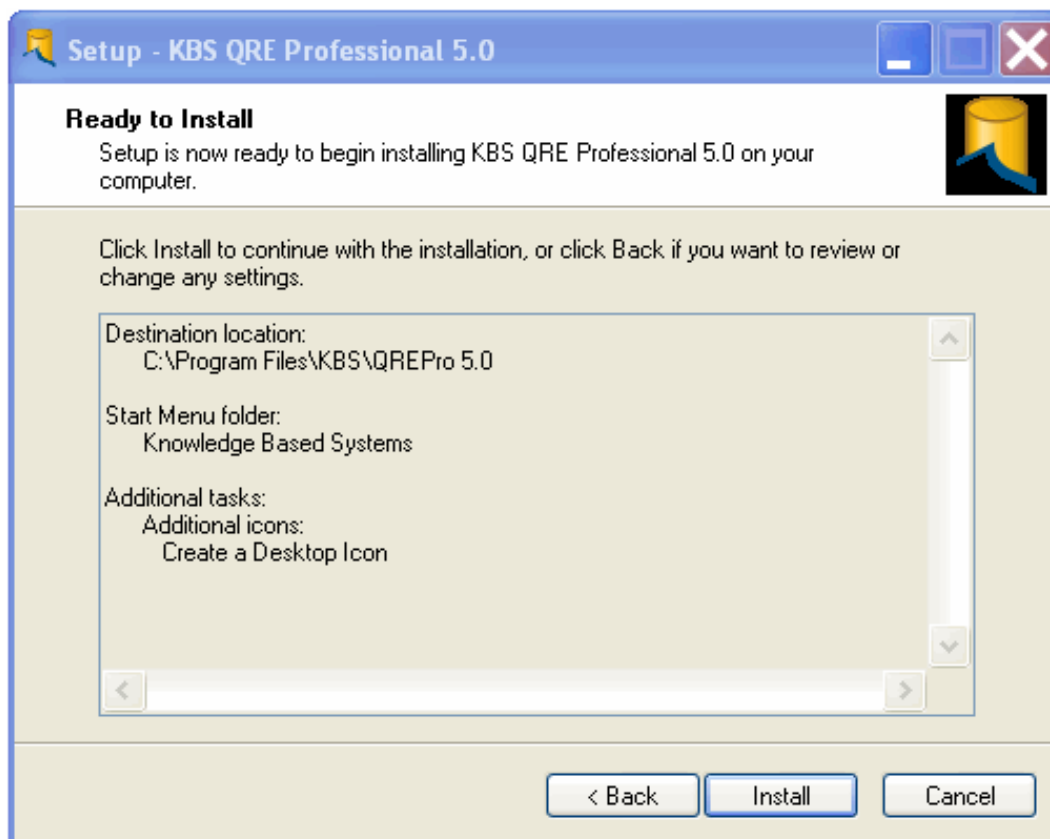
A progress bar indicates the status of the installation. You can click Cancel at any point to stop the install.

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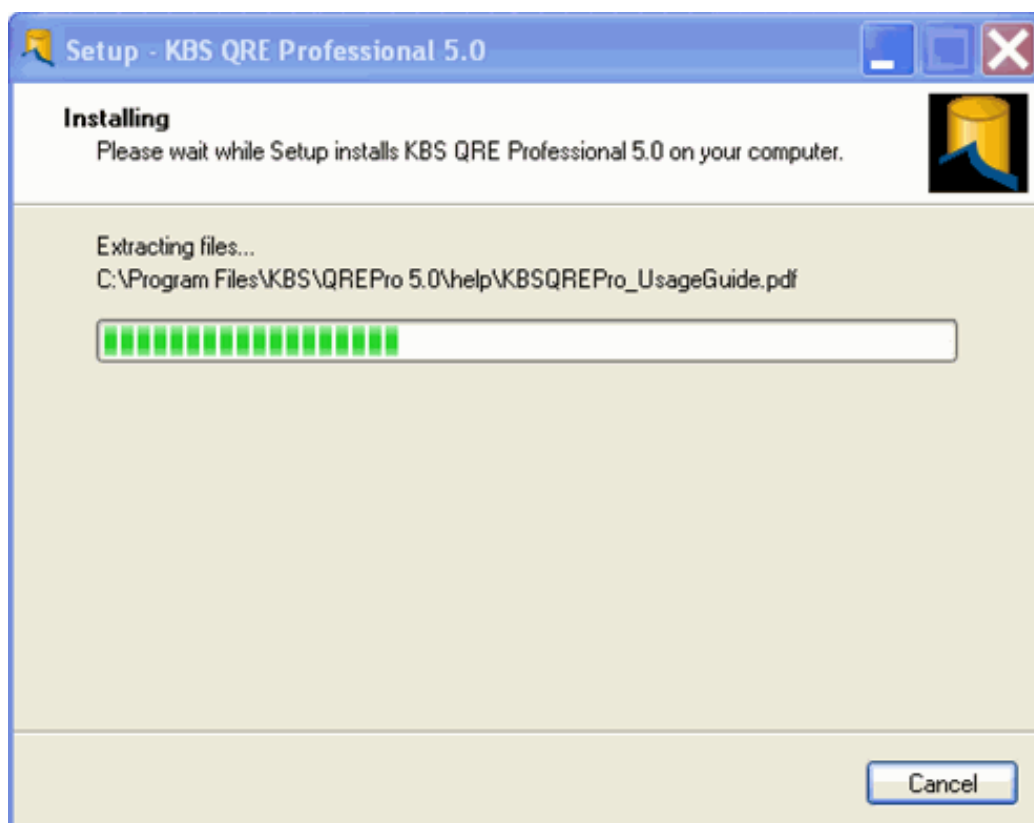
9. If you do not cancel the install, the following screen is displayed. Click Finish to complete the install.
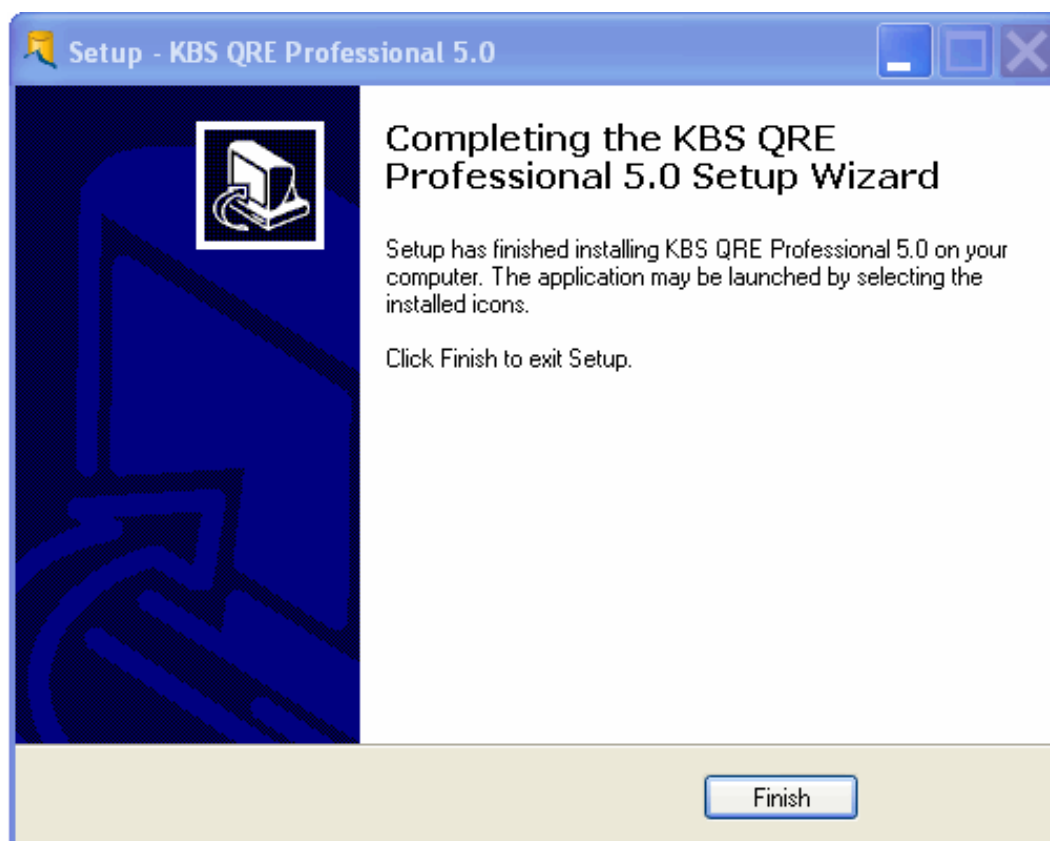
The following icon is displayed on the desktop of your PC and can be used to access and use QRE Professional 5.0.

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Chapter 3 - TROUBLESHOOTING

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INTRODUCTION

This section includes recommendations and suggestions you can use when you troubleshoot and work with the STAR Vista Reporting product. It includes information about the:

- Query Development Checklist you can use as a guide to identify key components when you develop or troubleshoot queries.

- Hints and tips you can use to address common issues that can help you prevent errors or improve the efficiency for your queries.

- Operational procedures to assist you with common system problems and guidelines to follow when you call McKesson for support.

NOTE: You can also configure the SQL Alerts feature to automatically notify system administrators and other applicable personnel about potential issues requiring attention. For more information, see "Alerts Job Options" on page 1-56.

QUERY DEVELOPMENT CHECKLIST

This is not a complete list of questions and SQL commands, but provides some guidelines for designing and troubleshooting the format and content of your queries.

Things to Ask the Requestor	SQL Commands
1. Report Title	*HEADER Note: For more information, see "Message headers" on page 5-61.
2. Column Headings	*COLUMN,HEADING Note: For more information, see "Column headings in a download file" on page 5-61.
3. Elements on Report	*SELECT or WRITE
4. Time Period to Include	*WHERE
5. Sorted On (Within)	*ORDER BY
6. Criteria for including and excluding data	*PREDICATE EXPRESSION: IN, BETWEEN, LIKE, ETC.
7. Page Breaks On	BREAK AT/AFTER
8. Subtotals	SUM(col name)
9. Totals	SUM(col name)
10. Footer	FOOTER
11. Eliminate Nulls	*IS NOT NULL
12. Eliminate Duplicates	*DISTINCT, CHANGED
13. Exclude Detail (bottom line)	*GROUP BY
14. Margins	*SET RMARGIN/LMARGIN
15. Spacing	*SKIP/PAGE
16. Output (Print, Screen, File)	*SPOOL TO HARDCOPY
17. Include or Exclude Data from Grouping	*HAVING

NOTE: It is also common, and often recommended, to use variables to accumulate totals and sub-totals for reports.

HINTS AND TIPS

1. When possible, use index tables in your queries for more efficient access to the database. These tables can generally be identified by the term INDEX, INDX or IDX in the table name. Two of the most commonly used indexes are AG_ADM_DT_IDX and AG_DSCHRG_DT_IDX.

2. A common mistake made in writing a query is an incomplete or missing join constraint. This error can cause the query to consume tremendous resources. This is true especially when more than one table is referenced, and at least one table is not constrained in the WHERE clause. In addition, when you use the Boolean OR operator or there are some missing join constraints, system performance is impacted.

   When you use the Show_Plan option, the primary warning sign to watch for is a 'Get table' entry without a 'Constrain primary key' or 'Optimize primary key' that follows any other 'Get' entry in the same step. This indicates that the table is searched once for each entry returned by the previous 'Get'.

   NOTE: The first 'Get' in each step does not need to have any primary key optimization or constraints. Only the 'Get table' entries following the first 'Get' are a performance issue.

   For more information about the Show_Plan option, refer to the *KB_SQL User's Guide*.

3. Reports that require several sort options temporarily store data as it is sorted in the global ^SQLXQ(job #). Normally, this global is removed after each run. If an abnormal termination of the job occurs, this global remains on the system. You must contact SQL Support for assistance to determine if disk space clean-up is necessary.

   For more information about essential globals and their use, refer to the *KB_SQL Database Administrator's Guide*.

4. If you are experiencing parser problems, check for underscores in variable names (for example, :XPAT_NBR). Everything to the right of the underscore is ignored. Therefore, if you attempt to use :XPAT_NBR and :XPAT_NAME, a parser error occurs. If you attempt to use the variable containing the underscore in a query, a MUMPS error is generated and the query is not successful.

5. A double hyphen (--) before a line or text in your query designates what follows as comments. Using comments in your query provides documentation that can be helpful when reviewing or maintaining queries. For information about multiline comments, see "Guidelines for Comment Lines (Double Dash -- and Multi-line /* */)" on page 5-60.

6. Single quotes (') and/or double quotes (") can be used in a query. However, they must match on both sides for literals, headings, etc.

7. Using positional referencing in a query can save keystrokes when writing a query. However, it could increase the maintenance and troubleshooting efforts if the order of columns in the SELECT or ORDER BY clause is changed.

8. Limit the number of rows processed when developing or testing simple queries by using the SELECT_LIMIT and/or SEARCH_LIMIT commands. Using these limits when testing a query with a sub-query may not produce complete results if the limit defined is not high enough and is reached in the main query. It is always advisable to test sub-queries independently.

9. Use foreign key links when possible rather than joining tables to help improve the efficiency of your query.

10. During testing, it is advisable to get a sample account, exam code or record type and run a simple query against the table(s) for that specific item. You can then do a SELECT* or SELECT on specific columns in a table using the sample record to see how the actual data is stored in a table.

11. When creating a query and joining tables, it is recommended to run test queries against each table separately first to evaluate and verify the data in the columns or rows that you are pulling in the query. Be sure to determine if it is a one-to-one relationship between the tables, or if are there multiple matching records in one of the tables (one-to-many relationship).

12. There is a pseudo column named SQL_QUERYNAME (character domain) that can be used to display the query name on your reports for easier identification.

13. Remember that skip is before the value, not after. However, SKIP does not occur for the first ROW under column HEADINGS.

14. The following hints are a suggested outline to use when creating your query:

    - Design first

    - Identify tables and columns needed

    - Document with comment lines (see "Guidelines for Comment Lines (Double Dash -- and Multi-line /* */)" on page 5-60)

    - Develop a report catalog

    - Use keystroke short cuts

15. Remember to adjust for the output display of arithmetically derived column modifiers when using aliases and renaming columns with the AS option. For

example: (ADM_DT - BIRTHDATE)\365 AS AGE displays AGE based on the length of the combined elements. One solution is (ADM_DT - BIRTHDATE)\365 AS AGE RIGHT 3.

The use of an alias changes the resulting column to a character domain, and must be addressed for display purposes or when doing subsequent calculations.

16. If reports have been written in the EZQ Editor and the dictionary changes, the report cannot be run in the EZQ Editor again. It must be run in SQL_EDITOR, or you can create a new query again in the EZQ Editor.

17. You cannot use aggregates in an arithmetic equation in the WHERE clause. This causes an abnormal termination of SQL.   For example:

Incorrect: WHERE SUM(TOT_CHARGES) > 3000

Correct: HAVING SUM(TOT_CHARGES) > 3000

18. Table joins with incorrect syntax can cause the program to hang at BUILDING. The PARSER is not bullet-proof. The incorrect text example below passes the PARSER and the OPTIMIZER, but fails in the BUILDING process:

Incorrect: WHERE PAT_DEMOG.PAT_NBR AND CHARGE_DETAIL.PAT_NBR

Correct: WHERE PAT_DEMOG.PAT_NBR = CHARGE_DETAIL.PAT_NBR

19. NEW and OLD are reserved names and cannot be used as an alias with AS.

20. Variables must be declared (with the same name, domain and length) in both the main query and sub-query if they are to be used in the selection criteria or to pass data.

21. The length of variable names is limited to 9 characters, which includes the first characters of the colon and the "X." Although you can define and use variables with longer names, MAXIMUMPS does not recognize more than the first nine characters of a variable name. Beginning with the Vista 5.0 release, this limitation is strictly enforced and variables with names longer than 9 characters are flagged as errors on the Compile Query Log.

In the following example, the three variables defined are intended to accumulate three separate totals. However, with MAXIMUMPS only recognizing the first nine characters, they are all basically the same which is :XGRANDTO. This can cause variables from not getting updated properly and report incorrect results.

:XGRANDTO

:XGRANDTOTAL1

:XGRANDTOTAL2

NOTE: If you have used variable names longer than nine characters, you must update variable names that exceed this limit. You can use the Compile Query Log to identify the errors. The following shows these errors displayed on the Compile Query Log.

```
            KB_SQL Compile Queries Log Errors

QueryName                       RunDate         Days
-----------------------------------------------------------------------------

Compile Started on: 04/09/2008@10:54 AM

QB_MEDICARE_FY_ADJ_SUM          2005-12-28          120
    0145: Invalid variable name [XGRANDTOTAL1]

QB_MEDICARE_FY_ADJ_SUM          2005-12-28          120
    0145: Invalid variable name [XGRANDTOTAL2]

QB_FY2007_SELFPAY_CASH          2005-12-28          833
    0145: Invalid variable name [XFCSPTOTAL]
```

22. The INITIAL event block is for the initialization of variables only and was not designed to accommodate output.

23. Maintain an organized library of hospital-written queries. Print the final version of each hospital-unique query and maintain it in a book or file. You may also want to attach a sample of the output result to the query.

OPERATIONAL ISSUES

The following are examples of possible situations related to SQL that could require attention or intervention by the IS or systems department. For example, if you do not have access to System Utilities and you need to have a job zapped, please check with your data processing department. However, some procedures may require help from McKesson. Before placing a call to McKesson for support, please check the procedures and troubleshooting suggestions outlined below.

Query Did Not Complete, Print or Download

1. Check Halt Query to determine if the query is still running. If it is and you suspect that it is running longer than normal or expected, you may then Halt the query.

2. If you are unable to Halt the query and there is no Job Program number associated with it, contact McKesson Support for assistance.

3. If the query is no longer in the Halt Query queue, but no output has been produced, check the Transaction Log to verify if the query completed successfully.

4. If a printed report is expected, check the spooler report name/printer where the report was sent to see if it was set to Demand print.

   - If set to Demand, try to demand print the report.

   - If set to Immediate, verify printer is online and operational.

5. If the report has not been spooled, review Console Log for the following error message:

   Report Exceeds Maximum Pages

   This problem occurs if a large report exceeds the maximum number of pages defined for that report in Spooler Reports Maintenance. The Console Log Error Messages are created until the maximum number of pages is increased and allows the report to complete, or the job is zapped. You may want to review your query to ensure the number of pages and amount of output are reasonable, or adjust your logic and/or selection criteria.

6. If a download is expected, and if the query output is being

   - downloaded to a PC, there must be an open WEM session in order for the query to complete.

   - sent to UNIX, verify the directory path name is valid, the user has "write access" to the directory, and sufficient space is available in the directory. If any of these conditions is not met, a Mumps error may display on the Console Log such as "Unable to open device."

7. For additional assistance with query output problems, please contact McKesson SQL Support.

Disk Blocks Running Low (Disk Space Running Out)

If it is suspected that an SQL query has used an abnormal amount of disk space, or is still running and consuming disk space at an accelerated rate, complete the following steps:

1. Identify the suspected query name and attempt to Halt the query if it is still active. Get the job name (begins with the letters BRS) from the STAR System Examine Job Status option.

2. If the job is not in Halt query queue or currently running, review the Console Log to determine if it is a problem such as "Report Exceeds Maximum Pages." If that is the case, see "Query Did Not Complete, Print or Download" on page 3-9 to resolve the issue.

3. If unable to Halt the query, or if it is not a Spooler Report output issue, zap the job from the Jobwatch.

4. You may need to unlock the query (report) so the user can get back in. This is a menu option.

5. Call McKesson SQL Support to determine if disk space clean-up is necessary.

    WARNING: If you have system access, NEVER kill the globals ^SQL or ^BRS. Killing ^SQL deletes the entire product from the system.   Killing ^BRS deletes hospital-written queries.

Printer Jammed While Printing Report

1. If the report was spooled and was set to Demand print, the job can be zapped and the report can be restarted if still available in Spooler. Availability is dependent upon the retention days setting.

2. If the Spooler report was set to print immediately with no retention days defined, the query needs to be requested again. The system deletes the global that was being built.

Session Hangs during Compile (Screen is Frozen)

If a query is compiling to print on the screen, you can zap the job and have the user verify the logic and selection criteria for the report. The user may want to send the report to a printer instead.

Error Message: Action denied, data in use by another job (job #)

The job was zapped by someone and is not accessible until it is unlocked. Use the Unlock Query option from either the SQL User Menu or the SQL DBA Menu.

Error Messages: System-Wide Lock for System or User

If users are unable to access SQL, check to see if any system locks exist. Access the System Lock Maintenance from the DBA Maintenance Functions menu. If the System Lock is set to YES, or the USER Lock is set to YES, arrow down and select the appropriate Lock option. Change the status from YES to NO, and accept to commit the change.

SQL Not Active after IPL

To determine SQL is active following a system IPL, log in to SQL and verify the program/job SQLV5 displays when reviewing the STAR System Examine Job Status. This function can be accessed from the DBA Maintenance Functions menu.

Queries Not Running

If there are queries in the background queue that are scheduled to run but have not started, verify the status of the Background Queue. Access System Lock Maintenance from the DBA Maintenance Functions menu. If the Background Queue Lock flag is set to YES, change it to NO. Then access the STAR System Examine Job Status to verify the program/job SQLV5 displays and queries are now running.

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SYSTEM STATUS FEATURES

Query Queue Options

The Query Queue Options menu allows the system administrator and SQL DBA to view, print and manage tasks in the queue. This menu also provides a central point of access to easily enable or disable the Halt Query queue, halt a specific task, view queries scheduled to run in the background or print the list of tasks in the Halt Query queue.

1. To access this menu, select:

    System Manager Options

    The following screen is displayed:

```
SYSTEM MANAGER OPTIONS

    Select option
     SQL EDITOR
     EZQ EDITOR
     CONFIGURATION
     DATA DICTIONARY
     TERMINALS/PRINTERS
     SECURITY
     UTILITIES
    *SYSTEM STATUS
     VERSION INFORMATION
```

    Select **System Status**. The following screen is displayed:

```
System Status Options

     CONNECTIONS
     SERVER OPTIONS
    *QUERY QUEUE OPTIONS
     STATISTICS
     EXCEPTIONS
     LOCKS
     QUERY TRANSACTIONS
     TABLE TRANSACTIONS
     EXIT
```

    Select **Query Queue Options**. The following screen is displayed:

```
Query Queue Options

     ENABLE
     DISABLE
     HALT QUERY
     PRINT
     EXIT
```

2. Select the option to complete the action you want to perform.

Exception Log changes

The Exception Log provides information about system, MUMPS and TCP/IP errors. To access the Exception Log, select **System Manager > System Status**. The following screen is displayed:

```
                 SYSTEM STATUS   KB_SQL Vx.x
              Number of active SQL users= 2___
            Number of server connections= 2___
             Server ready for connections? YES
 Background query queue status= Waiting for a task._____
 Background table statistics queue status: Empty___
             Number of system exceptions= 1_____
              Number of system locks set= 0_
 Integrity check last run on= 03/07/2006@08:34 PM_____
 Examine system status? YES
```

If the **Number of system exceptions** is not equal to zero (0), you need to review the errors to ensure your system is performing appropriately. Enter **YES** in the Examine system status? parameter and press ENTER. The following submenu is displayed:

```
           System Status Options

      CONNECTIONS
      SERVER OPTIONS
      QUERY QUEUE OPTIONS
      STATISTICS
      EXCEPTIONS
      LOCKS
      QUERY TRANSACTIONS
      TABLE TRANSACTIONS
      EXIT
```

Select **EXCEPTIONS** and press ENTER. Review the list of exceptions and correct any errors as necessary.

One specific error is UNIX Download Error code #910. It is logged for errors that occur when writing to host files. These errors are considered serious and are displayed in both the Exceptions Log and the DBA Message Logs. The file being written is truncated to avoid confusion. This displays in UNIX as a zero byte file and indicates to the DBA that the required space in the UNIX directory for the file is not available. For example:

Query Transactions
==================
Message:0910: Error writing file[/scratch01/blair/LARGEBKBD.TST]

or

Query Transactions Detail
=========================
910:   Error writing file [/scratch01/blair/LARGEBKBD.TST]

SUPPORT INFORMATION

This section contains the support options available to your facility, as well as turnaround time guidelines, criticality of an issue and when support is billable.

STAR Vista Reporting Support

STAR Vista Reporting Support has a team of experienced analysts available to assist your hospital SQL users with general questions regarding queries and syntax problems. In addition, assistance is available for finding the right tables and data elements. The McKesson Customer Support Manual provides a comprehensive guide for support services and procedures, but the following are guidelines and information that are helpful when contacting support.

- Regular business hours for STAR Vista Reporting Support are Monday through Friday from 8:30 am to 5:00 pm EST. Review available documentation and consult with internal resources to resolve query and SQL issues before placing a support call. The following are some examples or scenarios that may warrant a support call:

    1. Syntax errors that you have not been able to correct

    2. Help finding a specific table or column of data

    3. Simple report formatting issues

    4. Instructions for security issues

    5. Questions about a certain command

- Assistance with query development may be addressed under a support case. However, depending on the complexity of the issue, and the effort expended by the STAR Vista Reporting staff, your request could be billable or require a work order. For more information, see "Billable Support" on page 3-16.

National Phone Support

The National Support Phone Number is 1-800-782-7426.

- If an analyst is not immediately available to answer your question, your call is logged and a case number is assigned for tracking purposes.

- If all lines are busy, the call may be directed to voice mail. If an issue is left on the voice mail, a case is entered and the customer is called back with the assigned case number.

- When entering a support call, you need to provide the following information:

  - your Enterprise/Customer ID Number

  - the name of your query

  - if applicable, indicate if it is on the Financial or Clinical CPU

  - specify if query is in ID 1 Live or other ID

  - a general description of the problem or question

  - sample account or other specific details that could help to troubleshoot your issue.

Entering a support case through the Internet

You can also submit issues electronically via the Internet and SAGE Customer access. This feature is available on the McKesson Customer Portal. A log-in and password are required to access this function.

Knowledge Based Systems

Knowledge Based Systems, Inc. is a McKesson business partner and supplies the SQL engine. STAR Vista Reporting users should not contact Knowledge Based Systems directly with questions and issues. McKesson adds many value-added features to the Knowledge Based Systems software before it is delivered to the customers. The front-end processes and all the tables are specific to STAR, so the STAR Support Analyst is the best resource to address your questions. If necessary, the Support Analyst contacts Knowledge Based Systems on your behalf.

Turnaround time guidelines

Our goal for standard case priority is to provide an initial response the same business day, or at least within 24 hours after the call has been received. An initial response may occur when the call is first received, or it may also require a follow-up phone call to you by an assigned Support Analyst. Resolution of the case depends on the complexity of the question or issue.

Critical calls

The majority of SQL calls are considered to be standard priority. A critical status is assigned for any issue that adversely affects the delivery of patient care or causes financial liability due to operational or information deficiency. A "Critical" status is rarely assigned to SQL support cases, but could be applicable if SQL has caused a system crash.

Implementation or Upgrade process

A SQL Analyst is assigned to assist each customer during the implementation or upgrade process. During either of these situations, the applicable hospital employee needs to contact that resource directly with SQL questions and issues. If the hospital personnel enters a case, it is forwarded to the assigned McKesson SQL Analyst. If you do not know the name of your resource, or how to contact them, call SQL Support and they can provide this information to you.

Work order vs. support call

There are calls or cases that may require additional time and effort, such as providing assistance with a complex query or mapping of a new data element. These can be better addressed with a Work Order. The Support Analyst advises you when this is needed and what procedures to follow to initiate and submit a work order.

Billable Support

McKesson SQL Support has an existing policy to inform customers when they are to be billed for support activities and requests for assistance.

When starting research on a case, it is not always apparent whether the case is billable or non-billable. When it is determined that a case requires billable time to be completed, the analyst informs the customer before continuing to work on the case. The customer is given an estimate of the time to complete the billable work and informed the work is to be billed at the customer's usual billable rate (in 15-minute increments).

Before continuing the case, the customer is given the option to complete the work themselves, or must give permission to McKesson to resolve the issue.   The communication is documented in the work log with the full name of the customer representative who approved the continuation of the work, as well as who was informed that the time was billable. Disagreements regarding the billability of the case are resolved by McKesson management.

Chapter 4 - FUNCTIONS AND STORED PROCEDURES

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FUNCTIONS

Functions allow one or more values to be combined to produce a result. Functions can be used to compute mathematical operations, modify formats, and provide access to MUMPS functions.

While some functions are listed in this chapter, you can access more information regarding functions by pressing F2 while editing a query in the STAR system, or referring to a list of functions in QRE Explorer. For more information about QRE and Explorer, see "QUERY AND REPORTING ENVIRONMENT (QRE)" on page 5-4.

General Functions

1. **Function: AG_AGE1**

Purpose:	Calculates the age of a person in days, months, or years and displays "Exp" for deceased persons.
Format:	AG_AGE1 (date column,date column)
Example:	SELECT AG_AGE1 (BIRTHDATE,TODAY)
	FROM AG_DEMOG
Data Before:	N/A
Data After:	The results are the person's age in days(d), months(m), or years.

2. **Function: AG_LINE**

Purpose:	Draws a line of any length and character.
Format:	AG_LINE(value1,value2) where value1 is the character to be duplicated and value2 is the length of the line. Value1 must be in single quotes.
Example:	AG_LINE('*',10)
Data Before:	
Data After:	**********

3. **Function: CTTBLDESC**

Purpose:	To retrieve the description for a code from an application table or (^CT tables)
Format:	CTTBLDESC(ARG1,ARG2) ARG1 = 3-5 character table code ARG2 = code column from SQL table Table codes: ACERR Address/Credit Check Format and Validity Errors ACPER Address/Credit Check Processing Errors

4. **Function: DAYOFWEEK**

Purpose:	Returns a value of the week day number, abbreviated week day name, or full week day name when a specified date is entered.
Format:	DAYOFWEEK (date column, 'option') where option is the desired results format: DAYNBR - week day number (1=Sunday) DAYNAME - week day name, abbreviated DAYFULL - week day full name
Example:	DAYOFWEEK (PAT_BIRTHDATE, 'DAYNBR')
Data Before:	1/7/95
Data After:	7

5. **Function: DOCNAME**

Purpose:	Returns the name of the physician when only the doctor code is known.
Format:	DOCNAME(FAC, PHY_CD)
Example:	Select DOCNAME (FAC,PHYS_NBR) FROM AG_PHY_OFFICE
Data Before:	N/A
Data After:	The Doctor's Name

6. **Function: LOSCONV**

Purpose:	To convert Length of Stay into hours and minutes
Format:	LOSCONV(ARG1,ARG2,ARG3,ARG4) ARG1 = Admit Date ARG2 = Admit Time ARG3 = Discharge Date ARG4 = Discharge Time If Admit Date is null then a message is provided "No Admit Date/Time", it is assumed that Admit Time is null. If Discharge Date is null, Discharge Time is assumed to be null, Today and Now need to be passed in their place(s). If Admit Date/Time are the same as Discharge Date/Time, the message "NA" is provided, because the calculations cannot be performed. **NOTE**:This function was intended for McKesson use, but is being shared for use by advanced query writers. A good knowledge of internal formatting is needed, as all dates and times used must be in internal format.

7. **Function: LOWER**

Purpose:	The purpose of this function is to convert all specified characters to lower case.
Format:	LOWER(column name)
Example:	LOWER(PAT_NAME)
Data Before:	Boy, Baby
Data After:	boy, baby

8. **Function: SQL_FN_QUARTER_FIRST_DAY**

Purpose:	The purpose of this function is to return the first day in the quarter based on the provided date value.
Format:	SQL_FN_QUARTER_FIRST_DAY(*DateValue*) where *DateValue* is a required parameter to indicate the date to use when calculating the value. If you run the query using the inputs specified in the :XDATE column in the table below, the query returns the value indicated in the Result column.
Example:	READ :XDATE DATE PROMPT 'Date' SELECT :XDATE, SQL_FN_QUARTER_FIRST_DAY(:XDATE) FROM SQL_ONEROW

:XDATE	Result
1/1/2003	1/1/2003

:XDATE	Result
5/22/2003	4/1/2003
12/31/2003	10/1/2003

9. **Function: SQL_FN_QUARTER_LAST_DAY**

Purpose:	The purpose of this function is to return the last day in the quarter based on the provided date value.
Format:	SQL_FN_QUARTER_LAST_DAY(*DateValue*) where *DateValue* is a required parameter to indicate the date to use when calculating the value. If you run the query using the inputs specified in the :XDATE column in the table below, the query returns the value indicated in the Result column.
Example:	READ :XDATE DATE PROMPT 'Date' SELECT :XDATE, SQL_FN_QUARTER_LAST_DAY(:XDATE) FROM SQL_ONEROW

:XDATE	Result
1/1/2003	3/31/2003
5/22/2003	6/30/2003
12/31/2003	12/31/2003

10. **Function: SQL_FN_QUARTER_FIRST_WEEKDAY**

Purpose:	The purpose of this function is to return the first weekday in the quarter based on the provided date value.
Format:	SQL_FN_QUARTER_FIRST_WEEKDAY(*DateValue*) where *DateValue* is a required parameter to indicate the date to use when calculating the value. If you run the query using the inputs specified in the :XDATE column in the table below, the query returns the value indicated in the Result column.
Example:	READ :XDATE DATE PROMPT 'Date' SELECT :XDATE, SQL_FN_QUARTER_FIRST_WEEKDAY(:XDATE) FROM SQL_ONEROW

:XDATE	Result
1/1/2003	1/1/2003
1/1/2005	1/3/2005 NOTE: 1/1/2005 is Saturday. Therefore, 1/3/2005 is the first weekday in the quarter.
5/22/2003	4/1/2003
12/31/2003	10/1/2003

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11. **Function: SQL_FN_QUARTER_LAST_WEEKDAY**

Purpose:	The purpose of this function is to return the last weekday in the quarter based on the provided date value.
Format:	SQL_FN_QUARTER_LAST_WEEKDAY(*DateValue*)
	where *DateValue* is a required parameter to indicate the date to use when calculating the value. If you run the query using the inputs specified in the :XDATE column in the table below, the query returns the value indicated in the Result column.
Example:	READ :XDATE DATE PROMPT 'Date' SELECT :XDATE, SQL_FN_QUARTER_LAST_WEEKDAY(:XDATE) FROM SQL_ONEROW

:XDATE	Result
1/1/2003	3/31/2003
5/22/2003	6/30/2003
12/31/2003	12/31/2003
12/31/2005	12/30/2005 NOTE: 12/31/2005 is Saturday. Therefore, 12/30/2005 is the last weekday in the quarter.

12. **Function: TBLDESC**

Purpose:	To retrieve the description for a code from an application table or ('V' table).
Format 1:	TBLDESC(ARG1,ARG2,[ARG3],[ARG4]) [ ] optional for tables not facility split ARG1= 3-5 character table code see TBL_CD on following report ARG2= code column from SQL table ARG3= tilde variable If the TBL_CD is found in the TILDE variable, it is facility split OR FAC_SEP=YES. CT= Patient Care FT= Financials HT= Payroll PT= Pharmacy ARG4= facility code
Format 2:	TBLDESC('ACC',ACCOM_CD) ACC is the TBL_CD and ACCOM_CD is found in G_LOG_ADM. This would give the accommodation description - 'SEMIPRIVATE'.

Format 3:	TBLDESC('CHR',CHURCH_CD,'CT','A')
	CHR is the TBL_CD, CHURCH_CD is found in the SQL table AG_DEMOG. The report attached shows that this table is facility split. Because AG_DEMOG does not have a FAC column or anything that would give the facility you can use the actual code. If you were using DEMOG_LINK from another table and that table did have some form of FAC then you could use that.
	If the table is really not facility split but ARG3 and ARG4 are used, the result is the same as if they were not used.
	For Advanced Micro codes the TBL_CD is "LMC". If there is not a description for the micro code then it returns the micro code.

13. **Function: UPPER**

Purpose:	Converts all specified characters to upper case.
Format:	UPPER(column name)
Example:	UPPER (PAT_NAME) FROM CG_LOG_ADM
Data Before:	Girl, Baby
Data After:	GIRL, BABY

14. **Function: Set of functions for converting between metrics and U.S. measurements**

Purpose:	Converts between metric and U.S. measurements.
Format:	SQL_FN_METRIC_LB_KG(value)
Example:	8 lbs converts to 3.63 kg

The available functions are described below:

Function	Description
SQL_FN_METRIC_LB_KG	Convert US pounds to metric kilograms.
SQL_FN_METRIC_KG_LB	Convert metric kilograms. to US pounds.
SQL_FN_METRIC_IN_CM	Convert US inches to metric centimeters
SQL_FN_METRIC_CM_IN	Convert metric centimeters to US inches
SQL_FN_METRIC_OZ_GM	Convert US ounces to metric grams
SQL_FN_METRIC_GM_OZ	Convert metric grams to US ounces
SQL_FN_METRIC_FT_M	Convert US feet to metric meters
SQL_FN_METRIC_M_FT	Convert metric meters to US feet
SQL_FN_METRIC_MI_KM	Convert from miles to kilometers

Function	Description
SQL_FN_METRIC_KM_MI	Convert from kilometers to miles
SQL_FN_METRIC_YD_M	Convert from yards to meters
SQL_FN_METRIC_M_YD	Convert from meters to yards
SQL_FN_METRIC_BMI	Calculate metric Body-Mass-Index (BMI) based on weight and height
SQL_FN_METRIC_F_C	Conversion of Fahrenheit to Celsius
SQL_FN_METRIC_C_F	Conversion of Celsius to Fahrenheit

NOTE: The demo query DEMO_METRIC_CONVERSION provides sample syntax and output results for some commonly used metric conversions.

15. **Function: SQL_FN_THIS_YR_FIRST**

Purpose:	The purpose of this function is to return the first day of the year based on the provided date value.
Format:	SQL_FN_THIS_YR_FIRST(date value) Where *Date Value* is a required parameter to indicate the date to use when calculating the value.
Example:	SELECT SQL_FN_THIS_YR_FIRST(DSCHRG_DT)

DSCHRG_DT	Result
01/07/2010	01/01/2010
12/21/2009	01/01/2009

16. **Function: SQL_FN_THIS_YR_LAST**

Purpose:	The purpose of this function is to return the last day of the year based on the provided date value.
Format:	SQL_FN_THIS_YR_LAST (date value) Where Date Value is a required parameter to indicate the date to use when calculating the value.
Example:	SELECT SQL_FN_THIS_YR_LAST (DSCHRG_DT)

DSCHRG_DT	Result
01/07/2010	12/31/2010
12/21/2009	12/31/2009

17. **Function: SQL_FN_PRIOR_YR_FIRST**

Purpose:	The purpose of this function is to return the first day of the prior year based on the provided date value.
Format:	SQL_FN_PRIOR_YR_FIRST(date value) Where *Date Value* is a required parameter to indicate the date to use when calculating the value.
Example:	SELECT SQL_FN_PRIOR_YR_FIRST(DSCHRG_DT)

DSCHRG_DT	**Result**
11/25/2008	01/01/2007
12/28/2009	01/01/2008

18. **Function: SQL_FN_PRIOR_YR_LAST**

Purpose:	The purpose of this function is to return the last day of the prior year based on the provided date value.
Format:	SQL_FN_PRIOR_YR_LAST (date value) Where *Date Value* is a required parameter to indicate the date to use when calculating the value.
Example:	SELECT SQL_FN_PRIOR_YR_LAST (DSCHRG_DT)

DSCHRG_DT	**Result**
11/25/2008	12/31/2007
12/28/2009	12/31/2008

19. **Function: AG_AGEDMY**

Purpose:	The purpose of this function is to provide accurate and clearly defined age results when calculating age of patients.
Format:	AG_AGEDMY (startdate,enddate) Where *Date Values* are required parameters to indicate the dates to use when calculating the age value. Returns age as 0D - 61D then 2M - 23M then 2Y - 999Y
Example:	```SELECT AG_AGEDMY("07/09/2010", '07/20/2010') HEADING 'Less than Month', AG_AGEDMY("06/07/2009", '07/20/2010') HEADING 'Over 12 Months', AG_AGEDMY("02/07/2008", '07/20/2010') HEADING 'Over 24 Months'```
Result:	```Less than Month Over 12 Months Over 24 Months -- 11D 13M 2Y```

20. **Function: AG_AGEY**

Purpose:	The purpose of this function is to provide the age in years only when calculating the age of patients.
Format:	AG_AGEY (startdate,enddate) Where Date Values are required parameters to indicate the dates to use when calculating the age value. Returns age in years only 0-999
Example:	```SELECT AG_AGEY("07/19/2019", "07/20/2010") HEADING 'Less than Year', AG_AGEY("07/19/2009", TODAY) HEADING 'Over 1 Year', AG_AGEY(BIRTHDATE, TODAY) HEADING 'BASED ON BIRTHDATE', BIRTHDATE```
Result:	```Less than Year Over 1 Year BASED ON BIRTHDATE BIRTHDATE`` `----------------------------------------------------------`` 0 1 44 06/06/1966`` 0             1            60           01/01/1950`` 0 1 8 04/10/2002`` 0             1            29           08/08/1980`` 0 1 60 01/01/1950`` 0             1            56           07/18/1954`` 0 1 56 07/18/1954`` 0             1            40           02/03/1970`` 0 1 56 07/18/1954```

21. **Function: SQL_FN_DATE_FY_FIRST**

Purpose:	The purpose of this function is to return the first day of the fiscal year based on the provided date value.
Format:	SQL_FN_DATE_FY_FIRST(date) Where *Date Value* is a required parameter to indicate the date to use when calculating the value.
Example:	```SELECT SQL_FN_DATE_FY_FIRST(DSCHRG_DT)```
Result:	```DSCHRG_DT Results (where fiscal year 7/1/YY thru 6/30/YY)`` 04/15/2010     07/01/2009`` 11/09/2010 07/01/2010```

22. **Function: SQL_FN_DATE_FY_LAST**

Purpose:	The purpose of this function is to return the last day of the fiscal year based on the provided date value.
Format:	SQL_FN_DATE_FY_LAST(date) Where *Date Value* is a required parameter to indicate the date to use when calculating the value.
Example:	```SELECT SQL_FN_DATE_FY_LAST(DSCHRG_DT)```
Result:	```DSCHRG_DT Results (where fiscal year 7/1/YY thru 6/30/YY)`` 04/15/2010     06/30/2010`` 11/09/2010 06/30/2011```

Star Financials

1. **Function: HDPTNM**

Purpose:	To return the department name.
Format:	HDPTNM(entity,fiscal year,department)
Example:	HDPTNM(ENT,FISC_YR,HOME_DEPT_NBR)
Data Before:	('01','94','8231')
Data After:	Data Processing

2. **Function: HENTNM**

Purpose:	To return the entity name.
Format:	HENTNM(entity)
Example:	HENTNM('ent')
Data Before:	01
Data After:	General Hospital

3. **Function: HSANM**

Purpose:	Returns the subaccount name.
Format:	HSANM(entity,fiscal year,department,subaccount)
Example:	HSANM(ENT,FISC_YR,DEPT_CD,SUBACCT)FUNCTIONS
Data After:	LABA - SAL- REGULAR

4. **Function: HTCTYP**

Purpose:	Returns the timecard description in the STAR payroll product.
Format:	HTCTYP(timecard type)
Example:	HTCTYP(TC_TYPE)
Data Before:	30
Data After:	Standard

5. **Function: JOBDESC**

Purpose:	Returns a job description from the Job Requirements/Skills file.
Format:	JOBDESC(Job_code)
Example:	JOBDESC(JOB_CD)
Data Before:	DP
Data After:	Data Processing

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Laboratory

There are no specific functions for the STAR laboratory product at this time.

Patient Care

1. **Function: DIAGDESC**

Purpose:	Returns the description or free text of diagnoses code.
Format:	DIAGDESC(facility,diagnosis_code)
Example:	SELECT DIAGDESC(FAC,DIAG_CD) FROM CG_LOG_ADM
Data Before:	Just the diagnosis code
Data After:	The description of the code

2. **Function: INTNBR**

Purpose:	Returns the Internal Number (INTN) when only the Internal Account Number (AN) is known.
Format:	INTNBR(an)
Example:	INTNBR(AN)
Data Before:	A1550
Data After:	1090

3. **Function: PROCDESC**

Purpose:	Returns the description for procedure code.
Format:	PROCDESC(FAC,PROC_CD)
Data Before:	('f','47.0')
Data After:	47.0- Appendectomy

4. **Function: UNITNBR**

Purpose:	To retrieve the unit number for a particular patient account.

Format:	UNITNBR(ARG1,ARG2)
	ARG1=facilty code associated with the account
	ARG2=the INTN or patient INTERNAL number
	UNITNBR(FAC,INTN)
	UNITNBR("A",INTN)
	** use only if you are looking at accounts for facility code "A"
	UNITNBR(EXTRACT(AN,1),INTN)
	UNITNBR(EXTRACT(PAT_ACCT_NBR,1),INTN)
	** The facility code is ALWAYS the first character in the AN(Internal account number) and PAT_ACCT_NBR (external account number)

5. **Function: SECDIAG**

Purpose:	To retrieve the secondary diagnoses entered during the Admission process.
Format:	SECDIAG(ARG1,ARG2,ARG3,ARG4)
	ARG1 = Facility code; either SQL column or literal 'A' for example
	ARG2 = Internal Patient Number, INTN, SQL column
	ARG3 = Internal Patient Account Number, AN, SQL column
	ARG4 = Secondary Diagnosis Number ; 1,2,3….

Pharmacy

1. **Function: AUDTRL**

Purpose:	Returns the order audit trail information.
Format:	AUDTRL(intn,io,sequence number)
Example:	AUDTRL(INTN,IO,SEQUENCE_NBR)
Data Before:	('1210','48','3')
Data After:	80907960:DMO:::0:3

2. **Function: F0 - Pharmacy Function - Internal Use**

Purpose:	Returns information from the Basic Item Description node. This is global node ^PF(FORMULARY_CODE,F%,0) where F% contains the facility (or null if not facility split). The data from this node becomes the column DATA0 in the PG_FORMULARY table.
Format:	F0(FORMULARY_CODE,FAC)
Example:	same as format
Data Before:	NA
Data After:	NA

Used in:	Table: PG_FORMULARY
	Column: DATA0

3. **Function: F3 - Pharmacy Function - Internal Use**

Purpose:	Returns information from the Chemical node. This is global node ^PF(FORMULARY_CODE,F%,3) where F% contains the facility (or null if not facility split). The data from this node becomes the column DATA3 in the PG_FORMULARY table.
Format:	F3(FORMULARY_CODE,FAC)
Example:	same as format
Data Before:	NA
Data After:	NA
Used in:	Table: PG_FORMULARY
	Column: DATA3

4. **Function: F4 - Pharmacy Function - Internal Use**

Purpose:	Returns data from the Additional Item Information node. This is global node ^PF(FORMULARY_CODE,F%,4) where F% contains the facility (or null if not facility split). The data from this node becomes the column DATA4 in the PG_FORMULARY table.
Format:	F4(FORMULARY_CODE,FAC)
Example:	same as format
Data Before:	na
Data After:	na
Used in:	Table: PG_FORMULARY
	Column: DATA4

5. **Function: F7 - Pharmacy Function - Internal Use**

Purpose:	Returns data from the Floorstock Records. This is global node ^PF(FORMULARY_CODE,F%,7,LOCATION_CODE) where F% contains the facility (or null if not facility split). The data from this node becomes the column DATA7 in the PG_FORMULARY_USAGE table.
Format:	F7(FORMULARY_CODE,FAC,LOCATION_CODE)
Example:	same as format
Data Before:	na
Data After:	na
Used in:	Table: PG_FORMULARY_USAGE
	Column: DATA7

6. **Function: F8 - Pharmacy Function - Internal Us**e

Purpose:	Returns data from the Third Party Formulary node. This is global node ^PF(FORMULARY_CODE,F%,8,STATE_CODE) where F% contains the facility (or null if not facility split). The data from this node becomes the column DATA8 in the PG_FORM_3RD_PARTY table.
Format:	F8(FORMULARY_CODE,FAC,STATE_CODE)
Example:	same as format
Data Before:	na
Data After:	na
Used in:	Table: PG_FORM_3RD_PARTY
	Column: DATA8

7. **Function: FC1 - Pharmacy Function - Internal Use**

Purpose:	Returns data from the Basic Compound Information node. This is global node ^PF(FORMULARY_CODE,"CM",F%) where F% contains the facility (or null if not facility split). The data from this node becomes the column DATAC1 in the PG_FORMULARY table.
Format:	FC1(FORMULARY_CODE,FAC)
Example:	same as format
Data Before:	na
Data After:	na
Used in:	Table: PG_FORMULARY
	Column: DATAC1

8. **Function: FC2 - Pharmacy Function - Internal Use**

Purpose:	Returns data from the Compound Pricing node. This is global node ^PF(FORMULARY_CODE,"CM",FAC,1). The data from this node becomes the column DATAC2 in the PG_FORMULARY table.
Format:	FC2(FORMULARY_CODE,FAC)
Example:	same as format
Data Before:	na
Data After:	na
Used in:	Table: PG_FORMULARY
	Column: DATAC2

9. **Function: FC3 - Pharmacy Function - Internal Use**

Purpose:	Returns data from the Basic Component Information node. This is global node ^PF(FORMULARY_CODE,"CM",F%,1,SEQ) where F% contains the facility (or null if not facility split). The data from this node becomes the column DATAC3 in the PG_FORMULARY_CMPD table.
Format:	FC3(FORMULARY_CODE,FAC,SEQ)
Example:	same as format
Data Before:	na
Data After:	na
Used in:	Table: PG_FORMULARY_CMPD
	Column: DATAC3

10. **Function: FC4**

Purpose:	(Internal use only) To gather the compound pricing information in the basic compound table even though it is two different nodes. McKesson does not recommend using this function since it was developed only for a mapping technique of the PG_FORMULARY_CMPD table. All the columns that are accessible by the FC4 function are mapped in this table.
Format:	FC4(Formulary Code, Component Sequence Number Within the Compound Item, Facility Code)
Example:	SELECT FC4(FORMULARY_CODE,SEQ,FAC)
	FROM PG_FORMULARY_CMPD

11. **Function: FP**

Purpose:	Returns an entire DATAP column from the PG_FORMULARY_USAGE table. McKesson does not recommend using this function since it was developed only for a mapping technique. The DATAP column contains the SHELF_BIN_LOC column.
Format:	FP(Formulary Code,Facility,Stock Location Code)
Example:	SELECT FP(FORMULARY_CODE,FAC,LOCATION_CODE)
	FROM PG_FORMULARY_USAGE
	The best way to use this function is by using the indirect approach:
	SELECT SHELF_BIN_LOC
	FROM PG_FORMULARY_USAGE

12. **Function: FPER**

Purpose:	Recommended for McKesson use only. Returns facility split information for the PG_ACTIVE_ORDERS table. This function is only a mapping technique and has no value for query writing.
Format:	PFER(FAC)
Example:	SELECT FPER(FAC)
	FROM PG_ACTIVE_ORDERS
	Another query writing approach in the use of this function:
	SELECT FPERCENT
	FROM PG_ACTIVE_ORDERS

13. **Function: FPERCENT**

Purpose:	Recommended for McKesson use only. Due to the nature of how the pharmacy product has facility split logic, this is a special function for the PG_STOCK_REQ_ITEMS table. The F_PERCENT column (alias F%) is necessary for the MAINRQ function that accesses the Main Requisition Information by facility. The FPERCENT function is not valuable for query writing.
Format:	FPERCENT(Covered Facilities)
Example:	SELECT FPERCENT (C_FAC)
	FROM PG_STOCK_REQ_ITEMS
	The best approach is to select the columns already mapped inside the PG_STOCK_REQ_ITEMS table that use this function:
	SELECT REQ_NUMBER,
	CREATED,
	CREATED_BY,
	DESTINATION,
	ITEMS,
	RESTOCK_METHOD
	FROM PG_STOCK_REQ_ITEMS

14. **Function: FSV (Pharmacy Only)**

Purpose:	Recommended for McKesson use only. Returns formulary vendor information. This is a sophisticated use of a function defining the DATA column. It is recommended to select the columns from the PP_FORM_VENDORS table (which uses this function for you.) This function is not valuable for query writing.
Format:	FSV(FORMULARY_CODE,FAC,VENDOR_SEQ,LOCATION)
Example:	SELECT DATA
	FROM PP_FORM_VENDORS
	This logic automatically invokes the use of this function for you.

15. **Function: FU**

Purpose:	Recommended for McKesson use only. Returns floorstock usage information. This function is already defined in the PG_FORMULARY_USAGE table with the column called DATAU. This function is not valuable for query writing.
Format:	FU(FORMULARY_CODE,FAC,LOCATION)
Example:	SELECT DATAU
	FROM PG_FORMULARY_CODE

16. **Function: FV(Pharmacy Only)**

Purpose:	Recommended for McKesson use only. Returns the formulary vendor information. The function is defined in the DATAV column of the PG_FORMULARY table. This function is not valuable for query writing.
Format:	FV(FORMULARY_CODE,FAC)
Example:	SELECT DATAV FROM PG_FORMULARY This logic above automatically invokes the use of this function for you.

17. **Function: RXMASFAC**

Purpose:	Given a facility code, returns the master facility code for Ambulatory Care.
Format:	RXMASFAC(Facility Code)

18. **Function: RXORDPL**

Purpose:	Returns pharmacy Order information.
Format:	RXORDPL(INTN,IO)
Example:	SELECT INTN,IO,RXORDPL(INTN,IO) FROM PG_ACTIVE_ORDERS This function, along with the functions RXORDPO and RXORDPM, return all data stored in the table PA_PRESCRIPTIONS. The results from this function can also be received by selecting the column DATA1 from the PA_PRESCRIPTIONS table. This would be a good way to access order information without doing a join in SQL. The example query shown above returns information from PA_PRESCRIPTIONS without including the table PA_PRESCRIPTIONS in the query.

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19. **Function: RXORDPM**

Purpose:	Returns Pharmacy Order Information
Format:	RXORDPM(INTN,IO)
Example:	SELECT INTN,IO,RXORDPM(INTN,IO) FROM PG_ACTIVE_ORDERS
	This function, along with the functions RXORDPL and RXORDPO, return all data stored in the table PA_PRESCRIOPTIONS. The results from this function can also be received by selecting the column DATA2 from the PA_PRESCRIPTIONS table. This would be a good way to access order information without doing a join in SQL. The example query shown above returns information from PA_PRESCRIPTIONS without including the table PA_PRESCRIPTIONS in the query.

20. **Function: RXPO**

Purpose:	To retrieve the Rx purchase order node PI
Format:	RXPO(ARG1)
	ARG1=PURCH_ORDER_NBR
	This is for internal use only. It returns the data node for table PP_PURCHASE_ORDERS that is global node ^PI(F%,|purch_ord_nbr).

21. **Function: RXPO1**

Purpose:	To retrieve the Rx purchase order node PI1
Format:	RXPO1(ARG1,ARG2)
	ARG1=PURCH_ORDER_NBR
	ARG2=SEQUENCE_NO
	This is for internal use only. It returns the data node for table PP_PURCHASE_ORDERS that is global node ^PI(F%,|purch_ord_nbr,|SEQ_NO). (No reference to this FUNCTION in SQL Tables)

22. **Function: RXPREDNM**

Purpose:	To retrieve the name of the predefined order.
Format:	RXPREDNM(ARG1,ARG2)
	ARG1=FAC Facility code
	ARG2=PREDEFINED_ORD_CD code for the predefined order

23. **Function: RXPRONT**

Purpose:	To retrieve the professional notes for a Pharmacy order.
Format:	RXPRONT(ARG1,ARG2,ARG3,ARG4)
	ARG1=INTN Patient's internal number
	ARG2=IO Internal order number
	ARG3=SEQUENCE_NO for order
	ARG4=text line number in the notes

24. **Function: RXSIG**

Purpose:	To retrieve the SIG for the prescription order and fill number.
Format:	RXSIG(ARG1,ARG2,ARG3,ARG4)
	ARG1=INTN Patient Internal number
	ARG2=IO Internal order number
	ARG3=Fill#
	ARG4=Sequence Number

25. **Function: RXORDPO**

Purpose:	Returns Pharmacy Order Information
Format:	RXORDPO(INTN,IO)
Example:	SELECT INTN,IO,RXORDPO(INTN,IO) FROM PG_ACTIVE_ORDERS
Data:	This function, along with the functions RXORDPL and RXORDPM, return all data stored in the table PA_PRESCRIOPTIONS. The results from this function can also be received by selecting the column DATA from the PA_PRESCRIPTIONS table. This would be a good way to access order information without doing a join in SQL. The example query shown above returns information from PA_PRESCRIPTIONS without including the table PA_PRESCRIPTIONS in the query.

26. **Function: RXPRICE**

Purpose:	Returns I/P and O/P package or unit charge. This is the calculated price.
Format:	RXPRICE (FORMULARY_CODE,FAC,'I') for I/P
	RXPRICE (FORMULARY_CODE,FAC,'O') for O/P
Example:	Select IP_PKG_CHG,OP_PKG_CHG, IP_UNIT_CHG,OP_UNIT_CHG From PG_FORMULARY

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27. **Function: RXSEV**

Purpose:	To retrieve the severity code description for a drug/disease interaction Severity code.
Format:	RXSEV(SEVERITY_CD) ARG1=severity code from table

Radiology

1. **Function: RADRN**

Purpose:	Returns the description for a Radiology Result Code.
Format:	RADRN(dpt,master exam code,result number)
Example:	RADRN(DPT,MAST_EXAM_CD,RES_NBR)
Data Before:	('RAD','1000','1')
Data After:	Technologist

2. **Function: RADRT**

Purpose:	Returns the Result Type Code.
Format:	RADRT(dpt,master exam code,result number)
Example:	RADRT(DEPT,MAST_EXAM_CD,RES_NBR)
Data Before:	('Rad','2000','2') Data After: ! = Nonprocedural charge code

3. **Function: RADRV**

Purpose:	Processes data stored in the globals and displays meaningful information as its output.
Format:	RADRV(result type code,result value)
Example:	SELECT CK_IN_RES, RADRV(RES_TYPE_CD,PIECE(DATA,':',CTR1) FROM XC_CK_IN_RES
Data Before:	#31351
Data After:	User,Hospital E This function checks the value of the result type code and, based on its value, returns the result value. If the result type code is in the list of the characters '!', '#', or '&', a person's name displays as the result value. If the code is the '?' character a data/time result is returned. If the result type code is the '*' character a person's name appears. If any other characters are the result type code then the result value returned is the same as what's stored in the system.

4. **Function: RADSECT**

Purpose:	Returns the section description associated with the exam code.
Format:	RADSECT(department,exam code)

5. **Function: RADSHFT**

Purpose:	Returns the description of the shift
Format:	RADSHFT(dpt,date/time code)
	Note:The date and time code used with the function RADSHFT is a column name that returns a date and time format such as EXAM_START_TIME.

6. **Function: RADTRV**

Purpose:	Given a result type code, returns the result type description.
Format:	RADRTV(Result type code)
Example:	SELECT AN,FAC,RADRTV(RES_TYPE_CD)
	FROM XC_CK_IN_RES
	Data Before: "+" or "-" or "="
	Data After: "Unknown" or "Free-Form" or "Table"
	Using the example above, function interprets the punctuation mark, stored in the column RES_TYPE_CD, and returns an alpha description. Therefore a "+" would display as "Unknown", "-" as "Free-Form" and so on.

7. **Function: XFRSTAT**

Purpose:	To retrieve the final report print status of the check in.
Format:	XFRSTAT(ARG1,ARG2)
	ARG1=DPT department
	ARG2=Final report print flag
	The final report print statuses are:
	Preliminary:STAT:Complete:Supplemental

STORED PROCEDURES

READ command extensions in SQL Editor

Command extensions reduce errors from queries that run correctly, but may contain the wrong input values.

HINT

The HINT extension provides a short reminder of what you can enter in a prompt. It is available in SQL Editor and QRE Professional 4.4 or later.

When you run the query and the READ prompt is displayed, press **F1** [HELP] to display the hint. For example, the hint for available facility codes is displayed at the bottom of the screen based on the following sample query:

```
READ :XFAC CHAR(1) PROMPT "Enter Facility Code"
    HINT "Enter Facility A or B"
    LOOKUP TABLE CU_FAC_OPT.FACILITY
```

The sample result is:

```
Enter the Facility Code: _
Enter Accommodation Code: __
        Enter Church Code: ___


  skip=F4        help=F1        undo=F10        list=F2        keys=F3

Enter Facility A or B ...
```

LOOKUP TABLE

The LOOKUP TABLE extension displays a runtime list of values (for example, a simple list of all unique column values in a dictionary table).

When you run the query, press **F2** [LIST] to activate the lookup feature. The LOOKUP TABLE feature can be used to display one of more columns of additional information.

Example one:

Accommodation codes are displayed based on the following sample query:

```
READ :XACC CHAR(2) PROMPT "Enter Accommodation Code"
    HINT "Choose the appropriate bed accommodation code"
    LOOKUP TABLE AG_ACCOM_TYPE.ACCOM_CD
```

The sample result is:

```
    Enter the Facility Code: B
 Enter Accommodation Code: __
        Enter Church Code: ___

 Select AG_ACCOM_TYPE.ACCOM_CD
                    ACCOM_CD
                        *A
                         B
                         C
                         I
                         J
                         P
```

NOTE: The LOOKUP TABLE feature with READ commands was designed to work with product application table values rather than patient-level SQL table values. In the above example, the syntax:

LOOKUP TABLE AG_ACCOM_TYPE.ACCOM_CD

is appropriate and provides you with a list of possible accommodation codes. Using LOOKUP TABLE AG_MEDICAL.ACCOM_CD is not valid.

Example two:

READ :XFAC CHAR(1) PROMPT "Enter Facility"
LOOKUP TABLE CG_HOSPITAL_INFO.FAC(HOSP_NAME,HOSP_STATE)

Action: Press F2 list key

The sample result is:

```
 Enter Facility:
         Select CG_HOSPITAL_INFO.FAC

                 FAC   HOSP_NAME                      HOSP_STATE
                 A   General Hospital A                  PA
                 B   General Hospital B                  TX
                 S   General Hospital S                  TN
```

LOOKUP PROCEDURE

The LOOKUP PROCEDURE extension displays a runtime list of values that result from a stored procedure with application-specific logic.

The LOOKUP PROCEDURE feature uses a stored procedure to access the COMMON_CLINICAL.AG_TABLE_TYPE table, which is list of STAR application table entries (including table description). You need to include the correct table type code in your LOOKUP PROCEDURE statement. You may also need to enter the facility code (if the application table is separated by facility) in order to obtain valid table entries for a facility.

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For example, if each facility has a unique list of churches and the table code from AG_TABLE_TYPE for the Churches table is CHR, the following is a sample query:

```
READ :XCHR CHAR(3) PROMPT "Enter Church Code"
    HINT "Choose the church code"
   LOOKUP PROCEDURE MCK_SP_LOOKUP_AG_TABLE.CD_NBR(:XFAC,'CHR')
```

The sample result is:

```
    Enter the Facility Code: B
 Enter Accommodation Code: __
        Enter Church Code: ___

        Select MCK_SP_LOOKUP_AG_TABLE.CD_NBR
             FAC CD_NBR CD_DESC
              *B   6       BETH ISRAEL
               B   9       BSS HINDU TEMPLE
               B   8       CHRIST THE KING
               B   1       HOLY CHURCH OF GOD
               B   7       JESUS CHRIST OF LATTER DAY SAINTS
               B   2       PEACHTREE PRESBYTERIAN
               B   3       ROSWELL BAPTIST
               B   4       ST ANDREWS
               B   5       ST MARY'S
```

To obtain a list of available table type codes, run a query against the AG_TABLE_TYPE table. The following is a sample query:

```
SELECT TBL_CD, TBL_HEADING , FAC_SEP, OWNER
FROM AG_TABLE_TYPE
```

The sample result is:

```
TBL_CD  TBL_HEADING                            FAC_SEP  OWNER
------------------------------------------------------------
ABC     Abstractor/Coder                       NO       PCare
ABN     ABN Override Reason                    NO       PCare
ABPT    Body Parts                             NO       PCare
ABSO    Abstract Overflow Codes                NO       PCare
ACC     Accommodations                         NO       PCare
ACD     Accident Type                          NO       PCare
```

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Chapter 5 - QUERY GENERATION AND REPORT OUTPUT OPTIONS

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STAR VISTA REPORTING INTRODUCTION

This section contains information about optional features of STAR Vista Reporting that are available for query development, report generation and report distribution. The features described include:

- QUERY AND REPORTING ENVIRONMENT (QRE) beginning on page 5-4, is a Windows-based environment used in query development that is available in addition to the character-based SQL Editor.

   NOTE: For more information about QRE and creating, viewing and managing download files, see the *QRE Professional Usage Guide*.

- The following report generation and distribution options:

   - "UNIVERSAL OUTPUT" on page 5-27

   - "HTML OUTPUT OPTIONS" on page 5-30

   - "EXPORT AND IMPORT METHODS" on page 5-33

   - "RUNNING QUERIES FROM MENUS" on page 5-39

   - "RUNNING TRANSACTION LOGS FROM MENUS" on page 5-46

   - "RUNNING SQL FUNCTIONS FROM MENUS" on page 5-47

   - "REPORT DISTRIBUTION VIA UNIX E-MAIL" on page 5-49

   - "AUTOMATED FTP PROCESS WITH STAR VISTA REPORTING" on page 5-55

   NOTE: For more information about using the character-based SQL Editor, building, modifying and running queries, see the *KB_SQL Reference Guide*.

QUERY AND REPORTING ENVIRONMENT (QRE)

QRE is a major feature of STAR Vista Reporting and provides a Windows-based reporting interface and environment. It is an easy-to-use query tool that can be employed by system administrators, query developers and end users. You can connect to the STAR host CPU and can create, delete, view, modify and run queries from/on the PC.

It provides a point and click environment and uses standard Windows navigation tools such as menus, scroll bars, and cut/paste functionality. The SQL syntax is color-coded for easier report writing and editing. It also allows you to view query code and report output on the same screen.

QRE is an additional tool for query development and is not a replacement for the SQL Editor. QRE-created queries can be accessed in the SQL Editor. Queries written using the SQL Editor can be accessed in QRE as well.

In addition to the graphical interface, QRE also includes an Explorer component. It provides the user with a Windows-based interface to the STAR data dictionary, and functions like the F2 key look-up in the SQL Editor.

Versions of QRE earlier than KB_SQL 5.0 use an ODBC connection to STAR and require loading the ODBC driver and QRE software on the PC. For more information, see "Chapter 2 - INSTALLING AND CONFIGURING STAR VISTA REPORTING SOFTWARE AND ODBC".

For KB_SQL 5.0 and later, you will need to define your connections within the QRE application. For more information, see "Connection Manager" on page 5-4.

You can access detailed documentation about QRE Professional from the Help menu. The online manuals to which you have access are:

- "QRE Professional Usage Guide" on page 5-13

- "KB_SQL Syntax Guide" on page 5-14

Connection Manager

Connection Manager provides the ability to control connections from within the application. This application does not use ODBC so there is no need to manage ODBC and DSN resources outside of the application. Connection Manager allows you to test connectivity and limit re-entry of username and password data according to your preferences.

After you have loaded the QRE software, the KB_SQL Connections dialog box is displayed. Select the Manage Database Connections option, and select Add New.

Enter the following Host Information:

- Name - Connection Name (For example CLN, MED, FIN)

- Host - STAR CPU IP Address or Domain Name. This must match the IP address or Domain Name defined in the STAR Server Configuration.

- Port - TCP Port. This must match the Host Port Server (listener) defined in the STAR Server Configuration.

- Username and Password. The option is available to enter and save your log-on information for the connection profile. Or you can enter that information when you log-on and initiate each session.

NOTE: If you have multiple CPUs, you can set up multiple KB_SQL connections. To add additional connections, initiate another connection and complete the Host information for the other STAR CPU. If you have an open QRE session, select KB_SQL connections using the icon on the toolbar or from the Tools drop down menu in QRE.

After you have completed entering the STAR Host information, you can test the connection. Enter your Username and Password, and click the Test button.
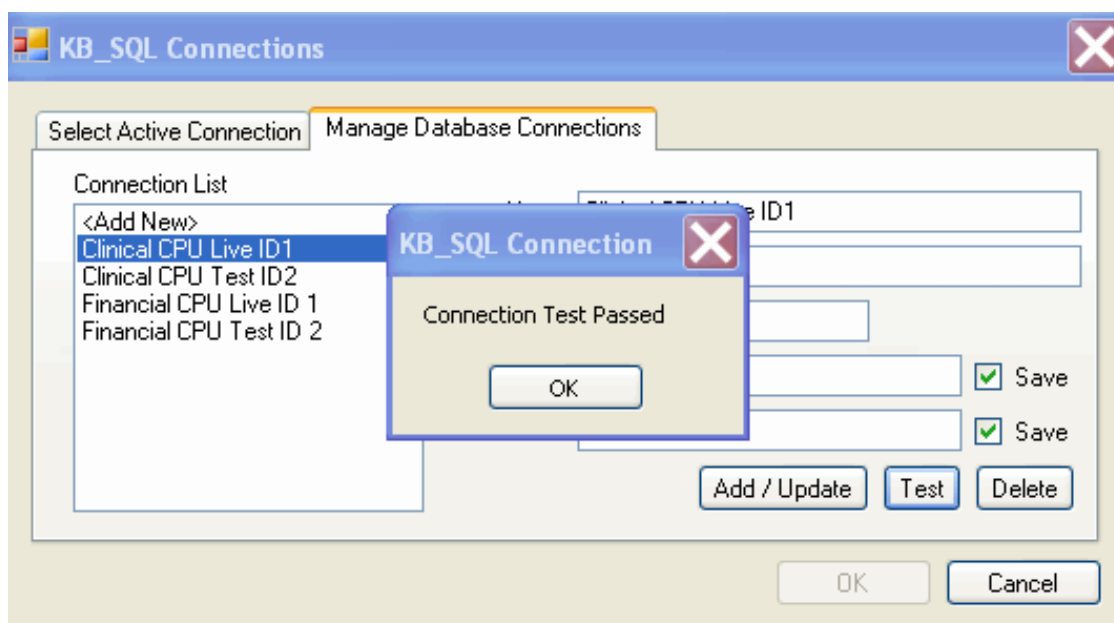
To connect and begin working in the KB_SQL 5.0 environment, use the Select Active Connection option. Highlight and select the appropriate connection item from the connection list. If necessary, enter your Username and Password and click OK.
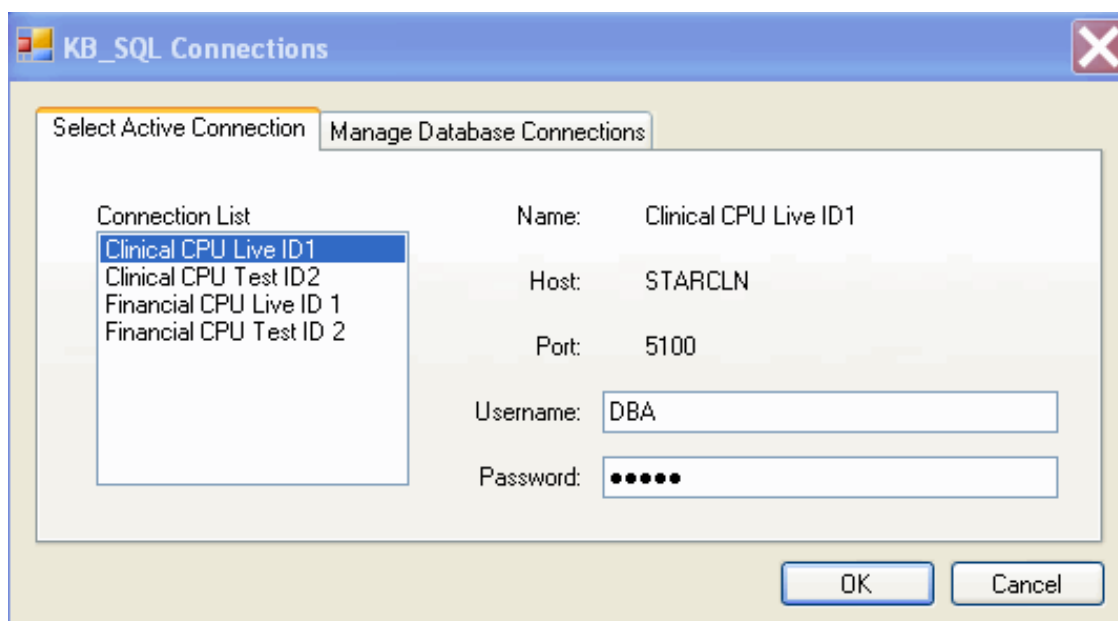
During your initial connection process, an update window provides a current status of the Explorer Repository load.
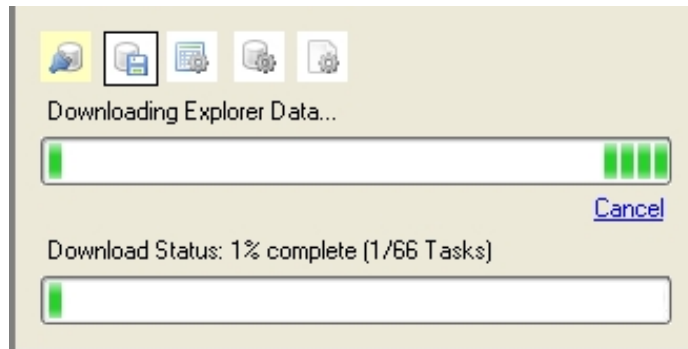
On subsequent QRE connections, the update status window also displays messages as follows:

- Downloading Explorer Data

- Loading Explorer Data

- Building KB_SQL language definition

- Building Recent Queries

Sample connection status windows are displayed below.
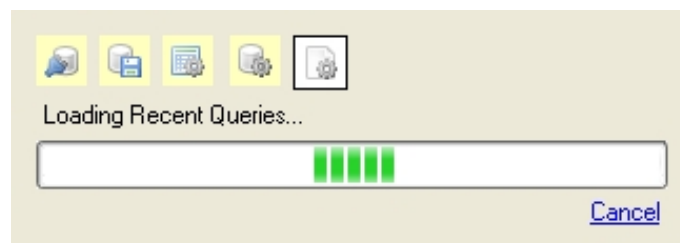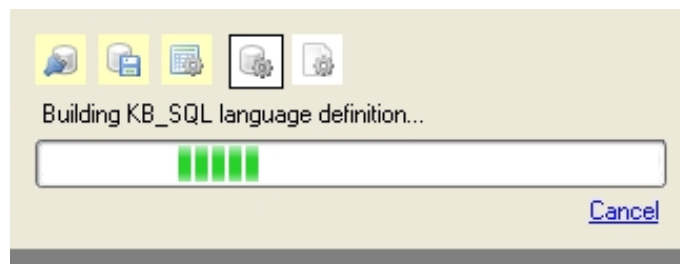
Accessing QRE

ACCESSING QRE WITH VERSIONS EARLIER THAN 5.0

Following are the steps to access QRE for KQ_SQL versions earlier than release 5.0:

1. Double-click the QRE Workstation Icon on your desktop. The following dialog box is displayed, indicating the default Data Source and the last user logged on at this PC:
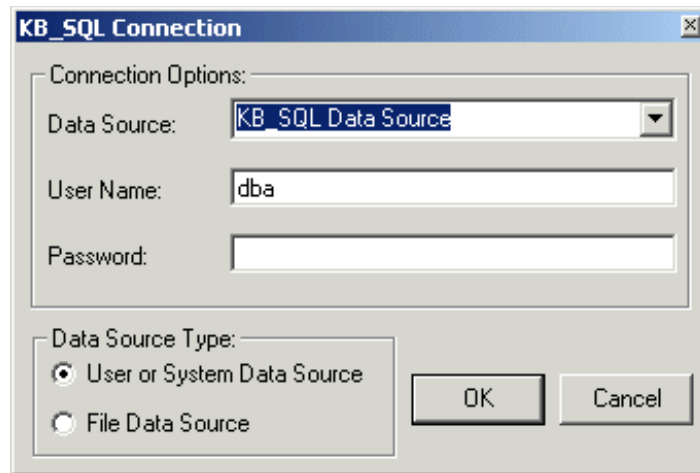
2. Select the appropriate Data Source from the drop-down list, if it is not displayed already.

3. Enter your SQL User Name.

4. Enter your SQL Password. (You can obtain the appropriate password from your organization's database administrator.)

5. Click the appropriate Data Source Type.

6. Click **OK** to continue. After you click OK, you are connected to the STAR CPU using the configuration and IP Address that was defined in the ODBC setup.

A screen similar to the following is displayed:
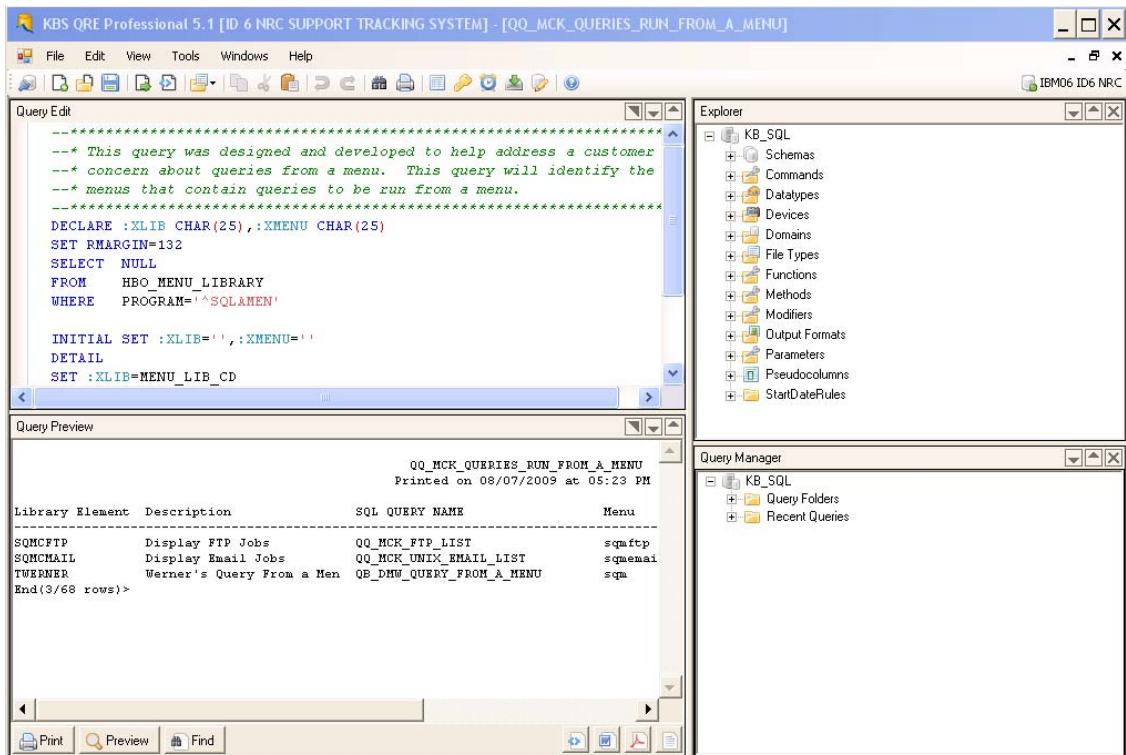
When applicable, query syntax and results are displayed in the left window pane. Information about menu options and other functionality is detailed below.

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ACCESSING QRE WITH 5.X

To access QRE with 5.x:

1. Select the appropriate connection from the Connection List under the Select Active Connection tab.
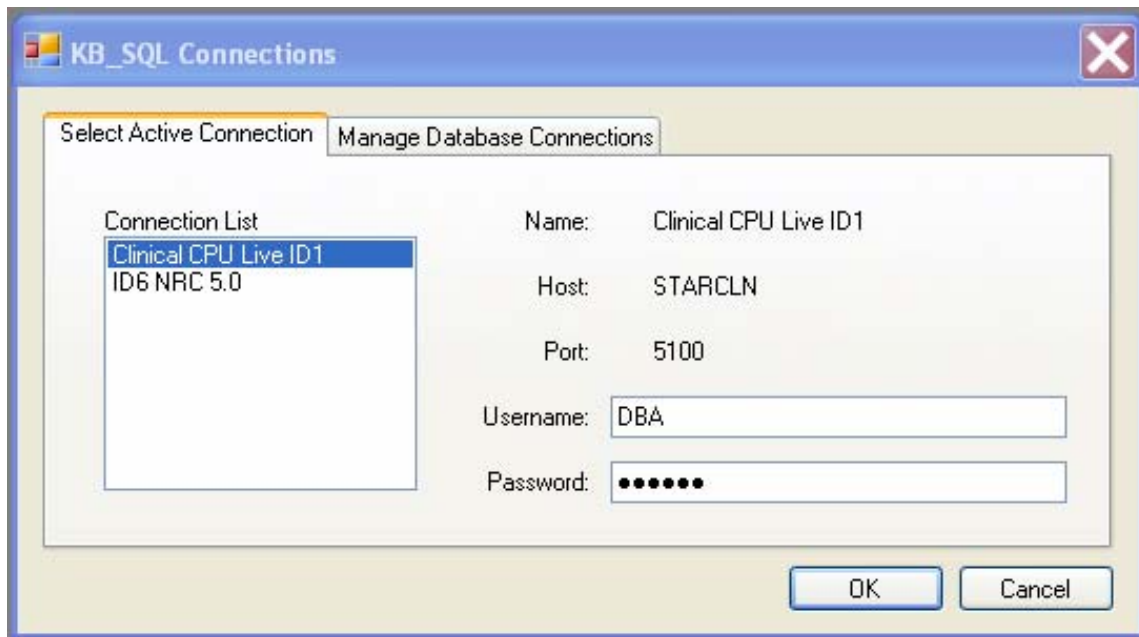
2. Enter your SQL Username. The Username is displayed if it was saved when you defined the connection profile.

3. Enter your SQL Password. The Password is displayed if it was saved when you defined the connection profile.

4. Click OK to continue. After you click OK, you are connected to the STAR CPU defined in the connection profile.

QRE menu options and icons

KBS ICON

The KBS icon is displayed next to the File option on the toolbar when a query is open or on the header bar for an individual query that is open. When you left-click the KBS icon, several menu options are displayed, allowing you to minimize, maximize, or close the query.

FILE MENU

The File menu provides options to create, view, parse and manage queries. In addition, you can view query properties, connect/disconnect from the repository and exit QRE.

NOTE: The Query Folders icon is displayed as a file cabinet on the toolbar. When you left-click the arrow beside the icon, a drop-down menu is displayed, allowing you to view a list of available query folders. You can also create a new query folder, add an open query to the My Reports folder or other folder, and organize lists of saved queries into other user-defined query folders.

EDIT MENU

The Edit menu provides standard Windows functions such as Undo, Redo, Copy, Cut, Paste, Find, Replace, and Select All. In addition, you can view and manage Comments, Bookmarks, Category List, Keyword List and QRE Auto Completion.

QRE Editor - Within the Editor, variables have a hint showing information about the variable. You can position the cursor over a variable to display its characteristics. Query References to sub-queries show as hyperlinks. When working in the main query, you can click to open and display the sub-query text for a sub-query.

You can use the Parsing Error Identification function to help identify the location of syntax errors. When parsing a query with syntax errors, it attempts to position the cursor at a syntax error and ttempts to underline the point of syntax failure with a red line. The error is displayed in a separate window.

TOOLS MENU

The Tools menu provides access to:

* Table Inspector - allows you to print a single table or range of tables and direct the output to the Windows printer by clicking on the printer icon button. It produces the same report format as the Data Dictionary Table Print option on the STAR Server.

* Key Inspector - allows you to view the primary and foreign keys for a table. For example, you can view primary key columns and sequences, outbound and

inbound foreign key columns, columns in a referenced table and the '@' (LINK@COLUMN) syntax for a referenced column.

- Queue Inspector - allows you to view the status of queries that are scheduled to run in the background queue at a later date and/or time. You can also delete multiple tasks at one time using checkbox functionality and cancel the execution of a query if necessary. In addition, you can filter the display of tasks in the Queue Inspector and the results are displayed immediately after the filters have been selected. You can click on the column headings to sort the list of tasks in the queue.

- Image Inspector - facilitates an organized approach to file downloads. The tool allows you to manage and preview output file images that had been saved using the SQL_FILE_IMAGE export method in queries. Images are saved on the server and you can then retrieve them to your individual PC or other multiple locations. You can also delete multiple images at one time using checkbox functionality. In addition, you can filter the display of images in the File Image Inspector and the results are displayed immediately after the filter has been selected. You can click on the column headings for custom sorting of the image files in the Image Inspector Queue.

- User Password Change

- Options - allows you to display or update the default settings for QRE.

    PreLoad Data on Startup - Controls if Explorer, KB_SQL language definition, and other data should be loaded on startup.

    Maximum Number of Rows for Browse - Number of table rows to display from Explorer.

    Connection Pool: Maximum Connections - Don't use unless troubleshooting.

    Connection Pool: Connection Shelf Life (in ms) - Don't use unless troubleshooting.

    Allow Log File - Don't use unless troubleshooting.

    Query Preview Rows - This is the default for Search and Select Limit when running queries in Preview mode.

    Query Preview Size (in mega bytes) - Current default is 1MB but can be increased if desired.

    Data Grid Alternate Row Color - Grids are displayed in Queue and Image Inspector, Browsing, and Quick SQL.

    Lock Gap Size (in seconds) - Don't use unless troubleshooting

Use Server Format for Data - controls whether format of dates, times, etc, match the settings and SQL site defaults defined on the Server.

Show Query Open Dialog - controls the display of the new dialog box that shows the status and progress of the queries when you select to open multiple queries at once.

REPORT PREVIEWER

Report Previewer provides a quick view of report output. The initial view is a simple text image that allows you to search, copy, preview or print the result. You can also save the result in HTML, TXT, RTF, or PDF format.

WINDOW MENU

The Window menu allows you to show/hide the Explorer panel, show/hide the Query Manager panel, arrange windows in cascade, horizontal or vertical formats, or Close All windows.

HELP MENU

The Help menu allows you to reference the QRE Professional Usage Guide or the KB_SQL Syntax Guide, as well as providing information about the QRE application.

QRE Professional Usage Guide

This document is provided by Knowledge Based Systems Inc., and you must have Adobe® Acrobat® Reader® installed in order to view it. The *QRE Professional Usage Guide* contains the following information:

- Installation and configuration of QRE Professional - including creation of the KB_SQL ODBC Data Sources, establishing a connection from QRE, and disconnecting from the Server.

- Using the QRE Explorer - is a valuable online reference tool for query development. This section also contains information on populating, maintaining and searching the data repository.

- Using the Query Manager - provides a central location for managing your queries in QRE Professional, including a quick access point for the twenty-five queries you most recently edited.

- Creating and Modifying Queries in QRE Professional - including tips for developing and editing queries in the Windows-based editor.

- Running Queries from QRE Professional - and considerations for using Run Messages and Read Prompts. This section also contains information on Runtime

Options including how the query is processed and options for directing results to the screen, Windows device, Host Device or Microsoft Word.

- Tools and Utilities - with search capabilities using the Table Inspector and Key Inspector. There is a section about the Queue Inspector that provides access and maintenance functionality for the background queue within QRE Professional. My Reports Menu option provides the ability to build a favorites menu for frequently accessed queries. Documentation is also included on the *KB_SQL Syntax Guide*, another valuable online reference source that can be selected from the Help menu.

NOTE: Knowledge Based Systems Inc. provides this documentation for all their customers, so it may include information that is not applicable for STAR customers. For more information, see the *STAR Vista Reporting/SQL Reference Guide*, or contact either your Implementation Resource or STAR Vista Reporting National support.

KB_SQL Syntax Guide

This document is provided by Knowledge Based Systems Inc., and you must have Adobe Acrobat Reader installed in order to view it. The *KB_SQL Syntax Guide* contains the following information:

- KB_SQL syntax information and usage rules

- Data Control Language statements and examples

- Data Definition Language statements and examples

- Data Manipulation Language statements and examples

- ASCII Chart

- Data Type Formats

- KB_SQL Keywords

- Operators

- Functions definitions and examples

- Pseudocolumns definitions and examples

QRE output options

You can select the following output options when you execute queries and produce reports in QRE Professional:

- Screen Display (Preview)

- Windows Device

- Host Device - Device options are:

    - STAR Spooler

    - UNIX

    - Server File Images

- Microsoft Word

NOTE: For more information, see "EXPORT AND IMPORT METHODS" on page 5-33.

Query Manager

Query Manager is the central location for managing queries in QRE Professional. For security purposes, only the queries to which you have access are displayed. When you access QRE, the Query Manager window defaults to the bottom right corner of the QRE Professional window and a list of the twenty-five queries you edited most recently is displayed. You can:

- open existing queries for editing or execution

- create new queries

- copy one query to create the basis for another

- search for a query based on various properties

- view and edit query properties

- delete queries

- refresh your query list

- create and maintain query folders

- select and open multiple queries from the list

- highlight and drag and drop multiple queries in the QRE Editor Window

A screen similar to the following is displayed, defaulting the Query Manager window to the bottom right corner of the screen:
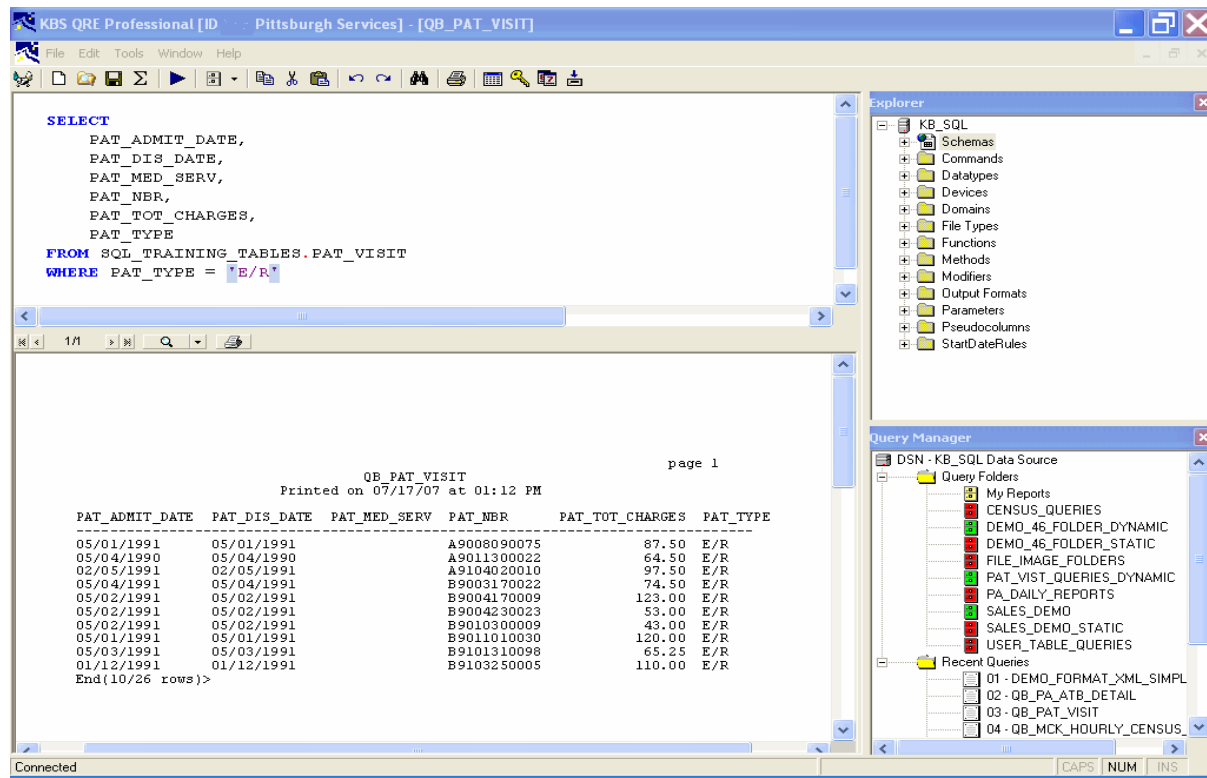
QUERY FOLDERS

The Query Folders feature and grouping mechanism makes it easier to focus on important groups of queries. You can define the name, description and selection of queries to be included in a specific folder. You can place one or more queries into a query folder.

The list of folders is displayed in the Query Manager and supports the standard set of query functions. Additional menus allow you to manage the lists, including renaming the list, changing the list description, adding or removing queries, or deleting the list. You can also expand or collapse the Query Folders or Recent Queries in order to focus on your current work activities.

Creating Query Folders

The following are guidelines about creating Query Folders:

- You can create a query folder from any list of queries, whether derived from a Query Manager Search or from Data Dictionary Explorer Query References.

- You can create two types of query folders: static or dynamic. You must manually select or add queries to a static query folder list. Dynamic folders are updated with queries that are saved and that meet pre-defined criteria.

- Each Query Folder includes a unique name, description, and list of queries.

- Once created, the folders are displayed in Query Manager under the Query Folders heading.

- Each user can create up to 25 Query Folders. This number includes the My Reports folder list.

- There is no limit to the number of queries that can be included in a folder.

- A query can be included in more than one folder.

Creating a Static Folder

You can use the File - Open Query - Search or Query References options to search for queries to be selected when you create a static folder.

To access:

- File - Open Query - Search: From File drop down menu, select File - Open Query - Search. Select the appropriate Filter By option and enter the Search Text to find queries that match a specific naming convention or criteria.

- Query References: In QRE Explorer, select Table or other object to be used to select the desired group of queries. Right-click and select Query References. A list of queries that reference that table or object is displayed.

- Query Manager - Search: In Query Manager, right-click on DSN KB_SQL Data Source object and select Search option. Select the appropriate Filter By option and enter the Search Text to find queries that match a specific naming convention or criteria.

Once the list of queries is displayed through any of the options above:

1. Select and highlight queries from the list displayed to be added and included in the static folder.

   - Using the File - Open Query - Search or Query Manager - Search, you can select as many queries as desired.

   - Using the Query References option, the query list is displayed in a page format with 20 queries per page so you can add a maximum of 20 queries at a time.

2. Click the Folders option and select New from the drop down menu. The Query Folder - Create dialog box is displayed and the folder is designated as a Static folder.

NOTE: If you do not highlight any queries, the folder is designated as a Dynamic folder and all queries from the current list are included in that folder.

3. Enter the name and description of the static folder.

4. Select Save to create the static folder with the list of selected highlighted queries.

A screen similar to the following is displayed during the create process:
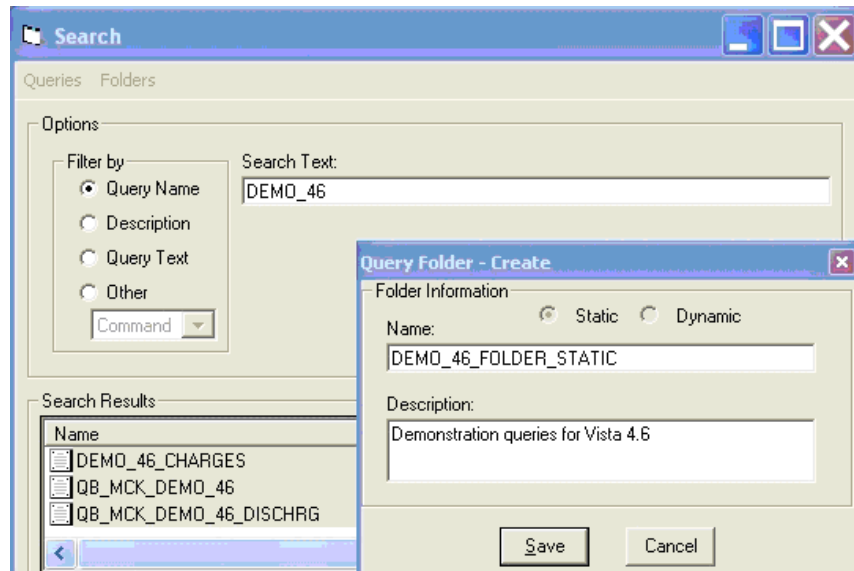
Create New Folder or Add Individual Query to a Static Folder

You can also create a new folder or add a query to a static folder when you have a query open in the QRE Editor window.

To create a new folder with the open query

1. Select the Folders option from the File drop down menu.

2. Select New from the Query Folders drop down menu.

3. Enter Name and Description in the Query Folder - Create dialog box.

A screen similar to the following is displayed:
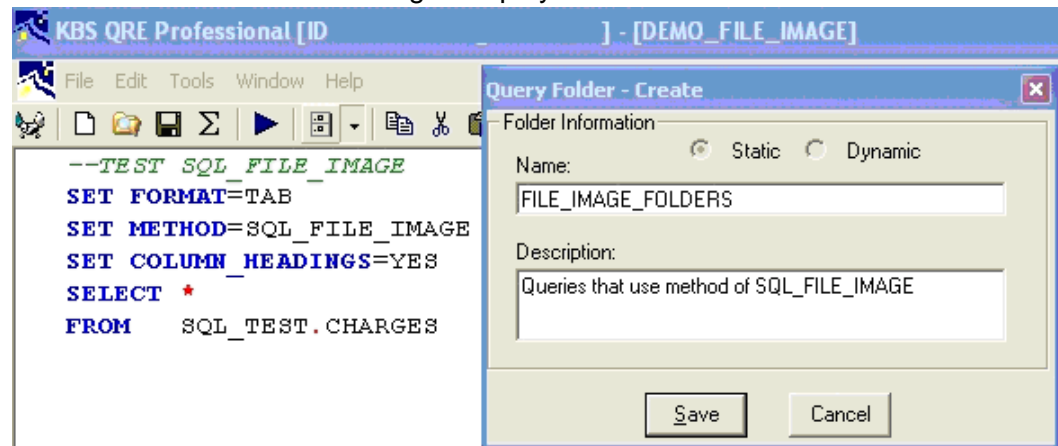
4. Select Save. The static folder is created with that query and a message similar to the following is displayed:
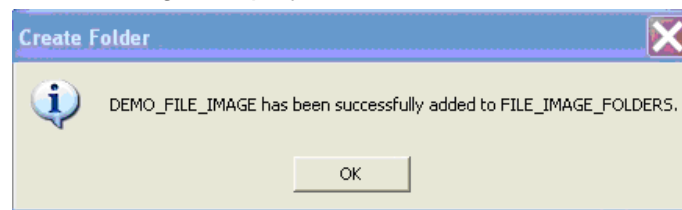
To add a query to an existing folder

1. Select the Folders option from the File drop down menu.

2. A list of existing static folders is displayed.

3. To add the query to a folder, select the desired static folder from the list.

   A screen similar to the following is displayed:


```
New

My Reports
CENSUS_QUERIES
DEMO_46_FOLDER_DYNAMIC
DEMO_46_FOLDER_STATIS
NLM_DAILY_REPORTS
PAT_VISIT_DYNAMIC
USER_TABLE_QUERIES
```
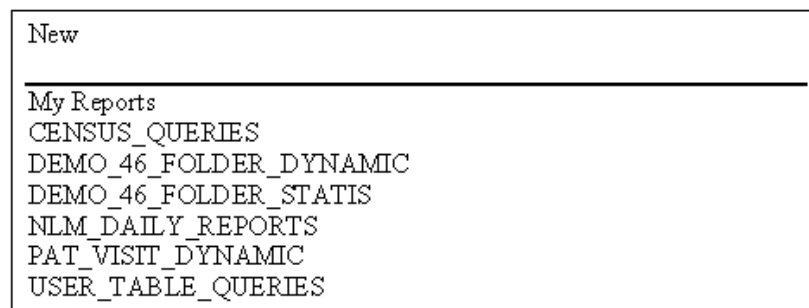
4. The open query is added to the selected folder and a message similar to the following is displayed:

KBS QRE Professional

DEMO_FILE_IMAGE added to NLM_DAILY_REPORTS successfully.

OK
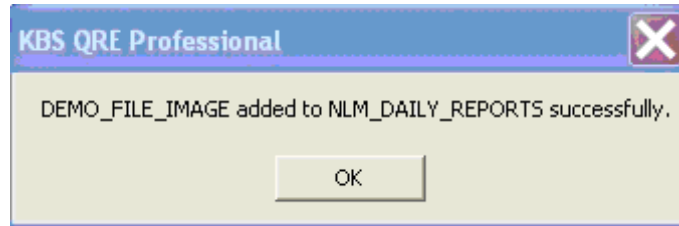
The following is additional information about static folders:

- You cannot convert a static folder to a dynamic folder, but you can convert a dynamic folder to a static folder. For more information about dynamic folders, see "Creating a Dynamic Folder" on page 5-20.

Creating a Dynamic Folder

You can use the File - Open Query - Search or Query References options to search for queries to be selected when you create a dynamic folder.

To access:

- File - Open Query - Search: From File drop down menu, select File - Open Query - Search. Select the appropriate Filter By option and enter the Search Text to find queries that match a specific naming convention or criteria.

- Query References: In QRE Explorer, select Table or other object to be used to select the desired group of queries. Right-click and select Query References. A list of queries that reference that table or object is displayed.

- Query Manager - Search: In Query Manager, right-click on DSN KB_SQL Data Source object and select Search option. Select the appropriate Filter By option and enter the Search Text to find queries that match a specific naming convention or criteria.

Once the list of queries is displayed through any of the options above:

1. All of the queries that meet the criteria are displayed and will be included in the dynamic folder. Verify this is the correct selection of queries that you want to be included in this folder or reenter new criteria.

   - Using the File - Open Query - Search or Query Manager - Search, you can select as many queries as desired.

   - Using the Query References option, the query list is displayed in a page format with 20 queries per page so you can add a maximum of 20 queries at a time.

2. Click the Folders option and select New from the drop down menu. The Query Folder - Create dialog box is displayed. If you do not highlight any queries, the folder is designated as a Dynamic folder and all queries from the current list are included in that folder.

WARNING: *Do NOT select or highlight any queries if you intend to create a dynamic folder. If you highlight any queries from the list, the folder is designated as a Static folder.*

3. Enter the name and description of the dynamic folder.

4. Select Save to create the dynamic folder with the list of displayed queries.

A screen similar to the following is displayed during the create process:
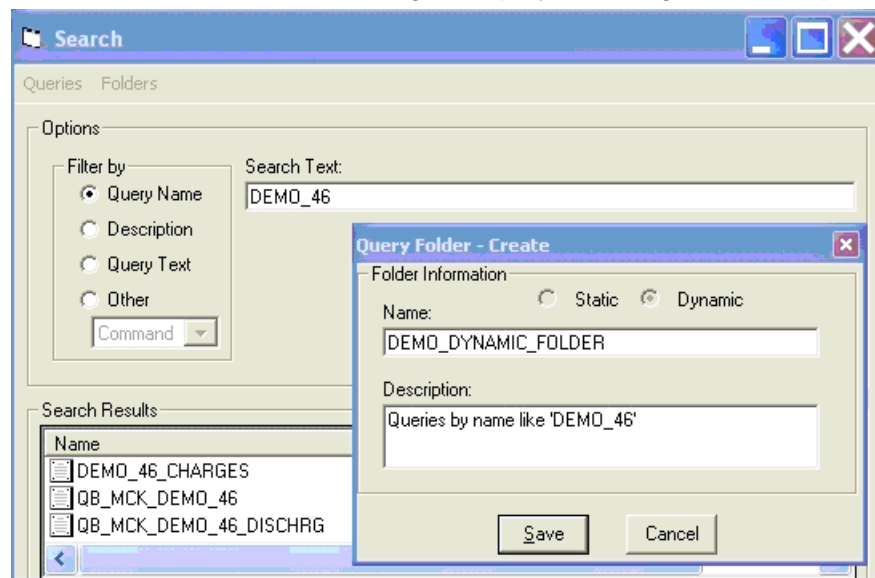
A screen similar to the following is displayed if you create a dynamic folder from a Query Reference:
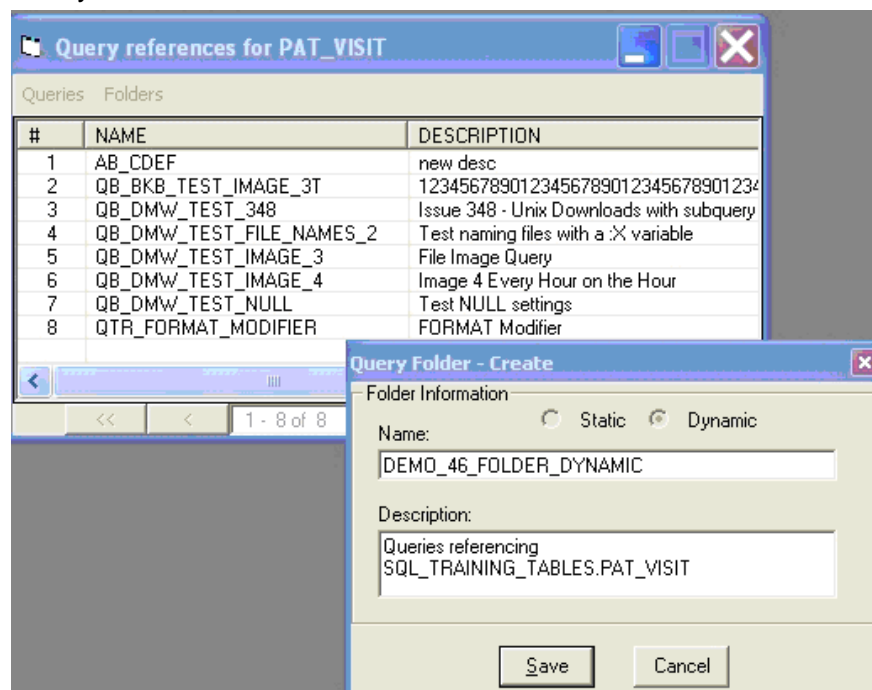
The following is additional information about dynamic folders:

- As you create and save new queries, they are added to an existing dynamic folder if they meet the selection criteria used to create that dynamic folder.

- You cannot remove individual queries from a dynamic folder after it is created.

- You can convert a dynamic folder to a static folder. For information about how to convert a dynamic folder to a static folder, see "Converting a Dynamic Folder to a Static Folder" on page 5-23.

    NOTE: You cannot convert a static folder to a dynamic folder. For more information about static folders, see "Creating a Static Folder" on page 5-17.

Working with Query Folders

Query Folders are color-coded to help easily identify the properties of that folder. My Reports is yellow, dynamic folders are green and static folders are red. The description of the folder, including whether it is Static or Dynamic, is displayed when you hover the cursor over a folder. A sample description such as "Dynamic - queries referencing

TRN_AG_DEMOG" can help you easily identify the contents of a specific folder. A sample screen is displayed below:
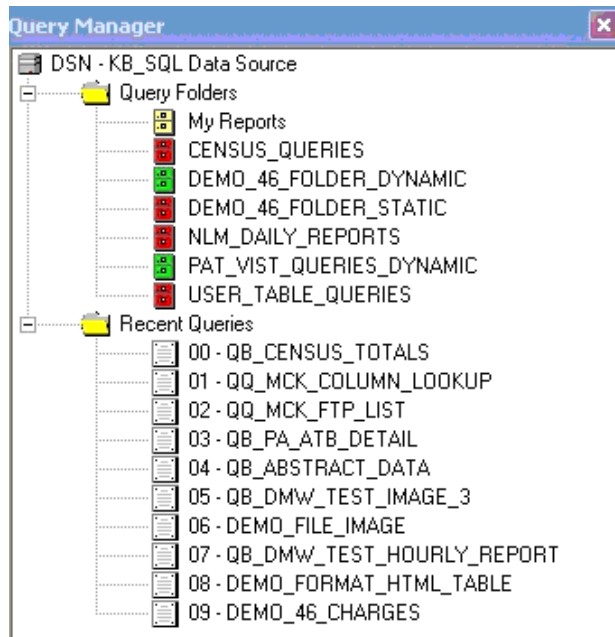
The following are guidelines about working with Query Folders:

- Menu options within Query Manager allow you to manage Query Folders. When you right-click on a folder, you have the option to Open a folder, Edit the name or description of the folder, Remove a folder, or view the Properties for the folder.

- You can only have one query folder open at a time.

Converting a Dynamic Folder to a Static Folder

To convert a dynamic folder to a static folder:

1. Right-click on the dynamic folder in Query Manager.

2. Select Convert. The following dialog box is displayed:
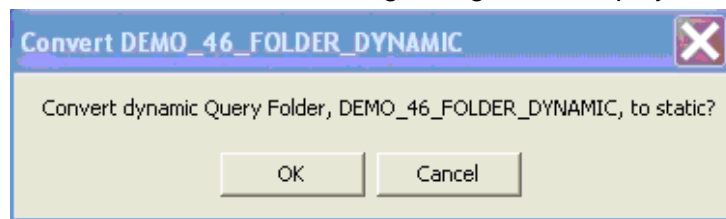
3. Click OK to convert this folder and list of queries to a static folder.

After you convert a query folder from dynamic to static, you have to make additions to the static folder manually.

NOTE: You cannot convert a static folder to a dynamic folder. For more information about static folders, see "Creating a Static Folder" on page 5-17.

Removing Queries from a Query Folder

You can remove queries from a Static Query Folder. To remove a query from a static folder:

1. Open the desired static query folder.

2. Select and highlight the query you want to remove.

3. Right-click the highlighted query and select Remove. The query is removed from that static query folder.

WARNING: When a folder is open and a list of queries is displayed, you can select from several options when you right-click on an individual query. *It is critical to realize the difference between the Remove and Delete options.* The actions and their corresponding results are described below:

- Removing a query from a Query Folder does *not* delete the query from the database.

- Deleting a query *permanently deletes the query from the database AND removes the query reference from all Query Folders.*

My Reports as a Query Folder

The My Reports functionality has been relocated from the toolbar and main menu to the Query Manager as a built-in query list or folder of the same name. The following are guidelines about My Reports as a Query Folder:

You can:

- create your own list of frequently used or favorite queries.

- add queries to this folder or remove queries from this folder.

You are not able to:

- rename or remove the My Reports folder.

How Query Folders are Updated

Query folders are stored on the server. The folders are created and updated as the designated actions occur. You can also manually refresh the folders during a QRE

ODBC session by right-clicking on the Query Folders option in Query Manager and selecting Refresh.

The following is additional information about Query Folders:

- Query Folders are displayed in Query Manager as they are created.

- Query Folders are user specific.

- If a user account is deleted on the server, all Query Folders associated with that user are also deleted.

- If you uninstall and reinstall QRE Professional software on your PC, your Query Folders remain defined and intact.

Explorer

The Explorer functions provide a hierarchical access and a full Windows interface to the STAR Data Dictionary using an ODBC connection. The Explorer window defaults to the upper right corner of the QRE Professional window. You can load the Explorer Data Dictionary Repository in one step and also display status information while you load and populate the Repository.

NOTE: For information about populating the Explorer Data Dictionary Repository, see the *QRE Professional Usage Guide*.

From the Explorer window, you can retrieve information about Schemas, Commands, Datatypes, Devices, Domains, File Types, Functions, Methods, Modifiers, Output Formats, Parameters, Pseudocolumns, and Start Date Rules. This function is similar to the F2 lookup key you can select in SQL Editor.

You can also search the data dictionary for specific data elements or values and view the extended properties of the columns and tables. Once the data is located, you can drag and drop the information into an active query. Multiple columns can be selected and moved at the same time.

In QRE 5.x, Explorer provides a hint showing you a description of each entry as you browse the data.

NOTE: QRE Explorer data is stored in binary files. Prior to version 5.0, data was stored in XML files.

Below is a sample of the Explorer window:
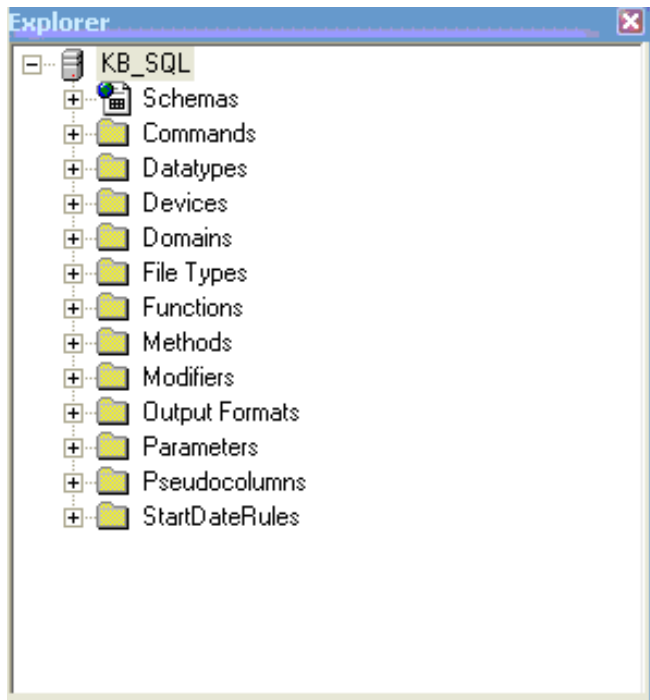
UNIVERSAL OUTPUT

STAR Vista Reporting provides a universal results output feature that enables you to direct the output to multiple places without having to change statements and recompile the query. It prompts you regarding the output, whether it be to a device, a file, or method. This is an optional feature that can be set up at the System or User level.

Configuration

The universal output feature is not activated by default. You must set the *Prompt for output type* flag to YES at the System or User level to activate this feature.

1. Using your DBA access, select **Configuration** from the System Manager Options menu to set the Universal Output flag at the System level.

```
 SYSTEM MANAGER OPTIONS


         Select option
     SQL EDITOR
     EZQ EDITOR
     CONFIGURATION
     DATA DICTIONARY
     TERMINALS/PRINTERS
     SECURITY
     UTILITIES
     SYSTEM STATUS
     VERSION INFORMATION



  help=F1       enter=Enter    skip=F4       keys=F3
```

2. Select **Default Information**.

```
            CONFIGURATION KB_SQL Vx.x

                 Site Name
 Site name: _____

                    Site Options
             ADDRESS INFORMATION
             DEFAULT INFORMATION
             DATE/TIME LIMITS
             PAGE LAYOUT
             SERVER INFO
             EXIT


  help=F1       enter=Enter    skip=F4       keys=F3
```

3. To make the prompt for universal output system-specific, set the *Prompt for output type?* flag to **YES**.

```
                         CONFIGURATION  KB_SQL Vx.x

                              Site Name
 Site name: McKesson Clinical CPU _____
 Site Default Information
  Default file format: _____ Delimiter: ___
         Export method: _____
         Import method: _____
           Date output: MM/DD/YYYY_____ Date input: MDY
           Time output: HH:MM12_____ FY Start: __
      Moment separator: _____ Moment time first? NO_
              Default for COMMIT prompt? YES  Prompt for output type? NO_
          Show search/select statistics? YES   Show data access plan? NO_
               Auto select if one match? YES      Perform ROW commit? YES
       Show DBA status window at startup? YES        Hide system jobs? YES
  Default SearchPatternEscape character: ___    Use 'Select *' order? NO_
```

4. To make the prompt for universal output user-specific, set the *Prompt for output type?* flag to **NO** at the site level and **YES** at the User level. Access the user level setting by selecting **User Edit** > **General** under Security from the Systems Manager Options menu. Setting the prompt for output type at the User level results in the system prompting the user for output type at run time.

```
              USER EDIT KB_SQL Vx.x

            User Information
 User name: USERNAME_____
      Group: USERGROUP_____

                General User Data
          Prompt for output type? NO_
      EZQ only? NO_
   Edit queries? YES
     Programmer? NO_
   Allow multiple queues?   YES
   Limit search: _____   Select: _____


   help=F1        skip=F4        undo=F10        keys=F3
```

5. When you run a query or report, the system prompts you with several options. The default is Device and with this option you can specify to send the results to the screen, a printer, or other output device. You can also specify to send the results

to a File or specify a method such as HOST_OUT. Selecting Quit enables you to
back out without executing the query.

```
KB_SQL Vx.x                                    QUERY_NAME

   Edit     Run     Print     Clear     Save     Quit     Info     Halt     User

-- SQL Start Date List
 SELECT NAME heading 'Name'      WRAP 30
        ,DESCRIPTION heading 'Description' WRAP 45
 FROM SQL_CUSTOM_START_DATES
 ORDER            Send Results To


 HEADER   * Device     File     Method     Quit


         WRITE 'Printed on '|TODAY|' at '|NOW center 80



Send the results to the screen, a printer or other output device


  help=F1       enter=Enter    skip=F4        keys=F3
```

HTML OUTPUT OPTIONS

There are two HTML output formats supported by STAR Vista Reporting. Query output can be directed and produced in hypertext markup language (HTML) in HTML table or HTML text formats. HTML text can be more flexible to allow Web programming for hyperlinks and other Web-based functions.

These formats can help present data in a uniform and desirable ways using Web technology. The user can access the desired information via web page rather than hard copy or manually running a query. The output formats can be used to present the data in a simple, easy-to-use format for the STAR system users, whether the user is a hospital administrator or volunteer.

Specifying the Type of Output

To output your query results in HTML text or HTML table formats, you must specify the desired output with a SET FORMAT command in your query. This is similar to defining the output format for downloads to create a fixed-length or comma-delimited file.

HTML TEXT OUTPUT

The following shows an example for creating HTML Text output:

```
/* SAMPLE QUERY FOR HTML TEXT DEMO */
SET FILE = "C:\TEST.HTML"
SET FORMAT = "HTML_TEXT"
SELECT STATION_CD      HEADING "STATION",
       ROOM_NBR        HEADING "ROOM NBR",
       BED_NBR         HEADING "BED NBR",
       PAT_NAME        HEADING "NAME",
       MED_LINK@ADM_DT HEADING "ADM DT",
       MED_LINK@ATTEND_PHY HEADING "PHYS CODE"
```

Following is an HTML Text output example of a census report that the volunteers of your facility could use to see if a patient is currently in the facility. You may also want to design something like the Administrative Operating Summary that the financial staff could view via the Web.

```
QB_MCK_HTML_TEXT - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back          Search    Favorites    Media

Address   C:\TEST.HTML

                                                              page 1
                              QB_MCK_HTML_TEXT
                         Printed on 09/12/05 at 5:28 PM

STATION   ROOM NBR   BED NBR   NAME                          ADM DT      PHYS CODE
--------------------------------------------------------------------------------
2N          236         1      BRETZER,DEE                   02/11/2001      7831
2N          239         1      KASSEBAUM,BARBARA             02/11/2001      7831
2N          241         1      KURZ,CHRIS J.                 02/07/2001      9020
2N          244         1      GANTHIER,ED                   02/10/2001      1035
2N          246         1      NEEDHAM,CONNIE                02/12/2001      6010
2N          248         1      TOUSSAINT,MADELINE S.         01/29/2001      1040
RES         294         2      ALBALAH,KEVIN E               12/19/2000      9999
SCU         341         3      PAINE,JOYCE                   02/12/2001      2710
SCU         342         4      NEWSOME,PATRICK               02/12/2001      2710
SCU         345         7      CREWS,EMMA M.                 02/05/2001      8020
SCU         346         8      MATTHEW,LEW                   02/12/2001      2030
SDU         348         1      DUPREE,EILEEN L               01/31/2001      9030
SDU         349         2      COBBLEY,LINDA                 02/11/2001      1040
SDU         354         2      MILLERICK,EDWARD C            02/11/2001      8010
SDU         356         1      TRAGER,CARL                   02/11/2001      7831
SNU         501         1      CARMEL,LINDA                  01/27/2001      1080
SNU         503         1      ANDREWS,AMY MICHELLE          01/22/2001      8050
SNU         509         1      BALAREZO,LAURA J.             01/06/2001      9030
SNU         518         1      BAYATE,DANIEL K               02/03/2001      1040
SNU         521         1      PIVACCO,SHERRY                01/27/2001      9020
SNU         522         1      BTESH,ELIZABETH JO            02/06/2001      9020
SNU         524         1      GEORGE,BETTI                  02/05/2001      9020
End(22/220 rows)>
```

HTML TABLE OUTPUT

The following shows an example for creating HTML Table output:

```
/* SAMPLE QUERY FOR HTML TABLE DEMO */
SET SELECT_LIMIT = 15
SET FILE = "C:\TEST.HTML"
SET FORMAT = "HTML_TABLE"
SET HTML_TABLE_CAPTION = "IN-HOUSE CENSUS"
SET HTML_TABLE_HEADER = "FACILITY A"
SET HTML_TABLE_FOOTER = "QB_MCK_HTML_TABLE"
SELECT STATION_CD     CENTER 6 HEADING "STN",
        ROOM_NBR       CENTER 8 HEADING "ROOM",
        BED_NBR        CENTER 6 HEADING "BED",
        PAT_NAME       LEFT 25 HEADING "NAME",
        MED_LINK@ADM_DT CENTER 8 HEADING "ADM DT",
```

Here is the same report in the format of an HTML Table. You can see the distinct difference between the output formats.

STN	ROOM	BED	NAME	ADM DT	PHYS CODE
2N	236	1	BRETZER,DEE	02/11/20	7831
2N	239	1	KASSEBAUM,BARBARA	02/11/20	7831
2N	241	1	KURZ,CHRIS J.	02/07/20	9020
2N	244	1	GANTHIER,ED	02/10/20	1035
2N	246	1	NEEDHAM,CONNIE	02/12/20	6010
2N	248	1	TOUSSAINT,MADELINE S.	01/29/20	1040
RES	294	2	ALBALAH,KEVIN E	12/19/20	9999
SCU	341	3	PAINE,JOYCE	02/12/20	2710
SCU	342	4	NEWSOME,PATRICK	02/12/20	2710
SCU	345	7	CREWS,EMMA M.	02/05/20	8020
SCU	346	8	MATTHEW,LEW	02/12/20	2030
SDU	348	1	DUPREE,EILEEN L	01/31/20	9030
SDU	349	2	COBBLEY,LINDA	02/11/20	1040
SDU	354	2	MILLERICK,EDWARD C	02/11/20	8010
SDU	356	1	TRAGER,CARL	02/11/20	7831

The following parameters allow header and footer rows to be included on files using HTML_TABLE format:

- HTML_TABLE_CAPTION

- HTML_TABLE_HEADER

- HTML_TABLE_FOOTER

Each value accepts a string literal value. The CAPTION value is a synonym for the TITLE parameter. The header and footer values use the THEAD and TFOOT html constructs. For example:

SET FILE = "C:\TEST.HTML"
SET FORMAT = HTML_TABLE
SET HTML_TABLE_CAPTION = "IN-HOUSE CENSUS"
SET HTML_TABLE_HEADER = "FACILITY A"
SET HTML_TABLE_FOOTER = "QB_MCK_HTML_TABLE"

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EXPORT AND IMPORT METHODS

Exporting Data to UNIX from QRE

When you execute queries in QRE, you can SET METHOD = HOST_OUT in the query to send the results to UNIX. You can enter the file path and name at the time of execution if this location information is not defined in the SET FILE statement in the query.

Exporting Data to a UNIX File using HOST_OUT

STAR Vista Reporting enables you to export data from STAR to a file that can be used by the UNIX operating system. The HOST_OUT method uses the file formats currently available in SQL to write data in an ASCII format to a UNIX file. To export data to UNIX, use the following commands in your query:

SET	METHOD = HOST_OUT	(required)
SET	FORMAT = COMMA	(some format is required)
SET	FILE = "/spooler/file.dat"	(optional)
SET	START_DATE = 'ALL'	(optional)
SET	START_TIME = 2100	(optional)
SELECT	COL1, COL2, COL#	
FROM	TABLE1	

The query must include the SET METHOD and SET FORMAT commands, but you can use any of the available file formats in your query.

The SET FILE parameter enables you to specify the name of the UNIX file. You can include the path with the file name. The name must conform to UNIX file naming conventions; however, you can use a $ (dollar sign) or ! (exclamation point) in the file name. When the system creates the file, it replaces the $ in the name with the current date (YYYYMMDD) and replaces the ! with the current time (HHMM in military time). Using the $ or ! creates a unique file name (name plus date or time) each time you run the query.

NOTE: If you are going to run the query more than once per day, use the ! (exclamation point) to add the current time to the file name.

Following is an example of a UNIX file name using the date option on July 3:

   SET FILE = "/spooler/file$.dat" generates the filename FILE19950703.DAT

Following is an example of a UNIX file name using the time option at 11:10 am:

   SET FILE = "/spooler/file!.dat" generates the filename FILE1110.DAT

If you omit the SET FILE parameter, SQL prompts you for the file name prior to executing the query. If you schedule the query to run in the background, and do not specify the file name, the system also prompts you for the file name.

NOTE: The query writer who is exporting data to UNIX must have rights and privileges to create files in the directory to where the data is being exported, and must specify a valid file name and path. In addition, the query writer and/ or DBA users are responsible for the UNIX storage and system maintenance.

You can schedule the query to be run at a date and time in the future using the SET START_DATE and SET START_TIME parameters. Refer to the *KB_SQL Reference Guide* for more information on these parameters.

Importing Data from a UNIX File

STAR Vista Reporting enables you to import data from UNIX for use with STAR. The HOST_IN method enables you to import delimited ASCII data from a UNIX file. Using this method, you can insert the UNIX data into a user-defined SQL table. You use the DML (Data Manipulation Language) command, INSERT, to import the data, as in the following example:

```
INSERT INTO    B_LOCAL_TABLE  (COL1, COL2, COL3)
FROM           "/spooler/file.dat"
FORMAT         COMMA
METHOD         HOST_IN
```

The last two lines of the query direct SQL to copy the information in the COMMA delimited ASCII file, with the file name /spooler/file.dat, into the table specified as B_LOCAL_TABLE. Refer to the *KB_SQL Reference Guide* for more information on the INSERT command.

NOTE: You cannot define the import file format as FIXED.

Exporting Data to a PC

STAR Vista Reporting enables you to export data from STAR to a file on your local PC. You must have an open WEM session and the PC online in order to download a file to your PC. The file formats currently supported include COMMA, FIXED, TAB, MAPPER, DELIMITED, HTML_TABLE, and HTML_TEXT. To export data to your PC, use the following commands in your query:

```
SET FORMAT =    COMMA           (optional)
SET FILE =      'C:\TESTTWO.TXT'  (optional)
SELECT COL1, COL2, COL3
FROM TABLE1
```

The query must have either the SET_FORMAT or SET_FILE command in order download a file.

NOTE: The REPORT format is not valid for a PC download. It is only supported with a HOST_OUT method to UNIX.

The Date/Time Stamps of "$" and "!" do not work with a PC download. However, you can create a Batch query, declare a variable, set that variable (for example = today), and then pass that variable to a query in the batch. The query in the batch that actually creates the download needs to include the following statement:

SET FILE = :XVARIABLE (which would be today)

Exporting data using SQL_FILE_IMAGE

An export method of SQL_FILE_IMAGE helps facilitate an organized approach to file downloads. You can run queries immediately in the foreground or you can schedule them to run in the background at a specific date and time. Images are saved on the server to be retrieved by the client. Advantages include:

* the ability to run the file download as a background process

* no record length limitation

* the ability to preview the file results before saving

* the option to save the result to multiple locations

Sample syntax:

SET FORMAT=FIXED,FILE="C:\WINDOWS\TEMP.TXT"
SET METHOD=SQL_FILE_IMAGE
SET CSPACE=0

This format can be used when you submit queries from SQL Editor or QRE Professional 4.4 or later. However, you must use File Image Inspector in QRE Professional 4.4 or later for output management.

NOTE: If you include a SET FILE statement, the file location specified is used as the default when the file is saved using File Image Inspector in QRE or the KBS Download Agent.

An example is displayed below:

NOTE: It is important to manage the file images on the server by deleting and/or purging files when necessary to recover server disk space used by file images no longer needed. In addition, you need to save files on a timely basis.

The default retention days and automatic deletion of files after the file image creation date is controlled by the Delete transaction logs after: parameter, which is the same setting that controls the retention for transaction logs. To set the parameter, select **System Manager Options > Configuration > Date/Time Limits > Delete transaction logs after.** The following screen is displayed:

```
 CONFIGURATION      GENERAL HOSPITAL   KB_SQL Vx.x


   Site name: GENERAL HOSPITAL
                            Site Date/Time Limits
             Delete transaction logs after: 7_____
```

NOTE: For more information about creating, viewing and managing download files, see the *QRE Professional Usage Guide.*

KB_SQL ODBC DRIVER

For the KB_SQL ODBC Driver to function properly, you must:

• uninstall the previous version of the KB_SQL ODBC Driver

• install the current version of the KB_SQL ODBC Driver

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- install the corresponding version of KB_SQL Server

KNOWLEDGE BASED SYSTEMS JDBC DRIVER

You must install the Java Runtime Environment (JRE) on user PCs that use the JDBC Driver and the Download Agent for the programs to function properly. To download JRE, access Sun Microsystems' Web site at www.sun.com/java. JRE is included in the Java Development Kit (JDK). If a PC has JDK installed, it is not necessary to install JRE separately.

KNOWLEDGE BASED SYSTEMS DOWNLOAD AGENT

If you use the SQL_FILE_IMAGE method, you can designate output files for automatic downloading. The KBS Download Agent is a system tray application that automatically saves File Images created using the SQL_FILE_IMAGE method with a filename specified using the SET FILE parameter. The KBS Download Agent requires the Java Runtime Environment (JRE).

KB_SQL ADO.NET DATA PROVIDER

KB_SQL Version 4.6 and later supports the KB_SQL ADO.NET Data Provider. This allows Microsoft.NET developers and application architects a feature-rich, reliable, high-performance data connectivity solution that is simple to implement and easy to manage. The KB_SQL ADO.NET Data Provider requires Microsoft.NET Framework 2.x.

XML_SIMPLE Output Format

This format allows you to generate a very simple XML document for a query that produces a tabular result. The new format is:

```
SET FORMAT=XML_SIMPLE

SET FILE='FORMAT_XML_SIMPLE.XML'
```

A base query named DEMO_FORMAT_XML_SIMPLE is available for you to test this new output format.

RUNNING QUERIES FROM MENUS

STAR Vista Reporting enables you to run queries directly from a STAR application menu. Queries are attached to a menu library element and then added to a specific user's menu or Navigator view. The user can then request and generate a SQL report without going into the STAR SQL operating environment and SQL Editor. This function is available only with STAR Vista Reporting.

Configuration and installation

This section describes the steps involved to configure and install the function to run queries from a menu on your STAR CPU.

NOTE: You can set up and implement this function on your site if you have a Forms & Menu Certification. If your site does not have a resource with this certification or you require assistance with this setup, you can open a billable case with STAR SQL National Support.

After the installation of STAR Vista Reporting has been completed on the CPU, the DBA for the site must add a new Security Group and User in the SQL System. Creation of this group and user helps in the tracking and security for this feature.

When you access **System Manager Options > Security**, the following menu is displayed:

```
SYSTEM MANAGER OPTIONS
      SECURITY
    Select option
      GROUP EDIT
      USER EDIT
      PUBLIC PRIVILEGES
      SITE SECURITY EDIT
      REPORTS
```

The steps for this setup are as follows:

1. Select **Group Edit**. Establish a new Security Group with the User Group name of MENU.

```
            GROUP EDIT  McKesson DEV (ID-9) KB_SQL Vx.x


         Group Information

      User group: MENU_____
 Query base routine: BRS__
    Default schema: SQL_TEST_____




  help=F1        skip=F4        undo=F10       keys=F3
```

2. Select **User Edit**. Define a new user with the name of MENU. The Group and Password are also MENU. This user only requires the lowest level of privileges.

   a. If you select the Password menu option, a screen similar to the following is displayed:

```
            USER EDIT KB_SQL Vx.x

         User Information
User name: MENU_____
     Group: MENU_____
 Password: **********_____
 Confirm: **********_____
 Password expires on: _____
 Allow renewal after expiration? YES

  help=F1       skip=F4       undo=F10      keys=F3
```

   b. If you select the General menu option, a screen similar to the following is displayed:

```
              USER EDIT KB_SQL Vx.x


         User Information
User name: MENU_____
     Group: MENU_____
              General User Data
        Prompt for output type? NO_
     EZQ only? NO_
  Edit queries? YES
    Programmer? NO_
  Allow multiple queues?   YES
 Limit search: _____   Select: _____


  help=F1       skip=F4       undo=F10      keys=F3
```

   c. If you select the Disable/Enable menu option, a screen similar to the following is displayed:

```
              USER EDIT KB_SQL Vx.x

         User Information
User name: MENU_____
     Group: MENU_____
              User account disable
 User account is disabled? NO_
 Disabled on date: _____
 Disabled on time: _____
 Disabled by user: _____
 Disabled for reason
 : _____

  help=F1       skip=F4       undo=F10      keys=F3
```

d. If you select the Qualifications menu option, a screen similar to the following is displayed:

```
                          USER EDIT KB_SQL Vx.x

               User Information
User name: MENU_____
      Group: MENU_____
               User Commands
         Create schema? NO_
 Create table or index? YES
           Create view? NO_
           Drop schema? NO_
   Drop table or index? YES
             Drop view? NO_
     Delete table rows? NO_
     Insert table rows? NO_
     Update table rows? NO_
      Grant privileges? NO_
     Revoke privileges? NO_


  help=F1        skip=F4        undo=F10       keys=F3
```

e. If you select the Colors menu option, a screen similar to the following is displayed:

```
                          USER EDIT KB_SQL Vx.x

               User Information
User name: MENU_____
      Group: MENU_____
      User Colors
 Use colors? NO_
         Screen foreground: _____    Background: _____
   Data window foreground: _____    Background: _____
 Select window foreground: _____    Background: _____
   Help window foreground: _____    Background: _____
  Error window foreground: _____    Background: _____


  help=F1        skip=F4        undo=F10       keys=F3
```

3. Create a menu library element to use for this function. You must log in and use your Forms and Menus password to access the Menu Library Maintenance options. Enter **A** to add a new library element at the following prompt:

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*Enter partial alias name`-`, *Partial internal name`-`, or (A)dd-- .* Then select a appropriate name for the new library element. The following screen is displayed.
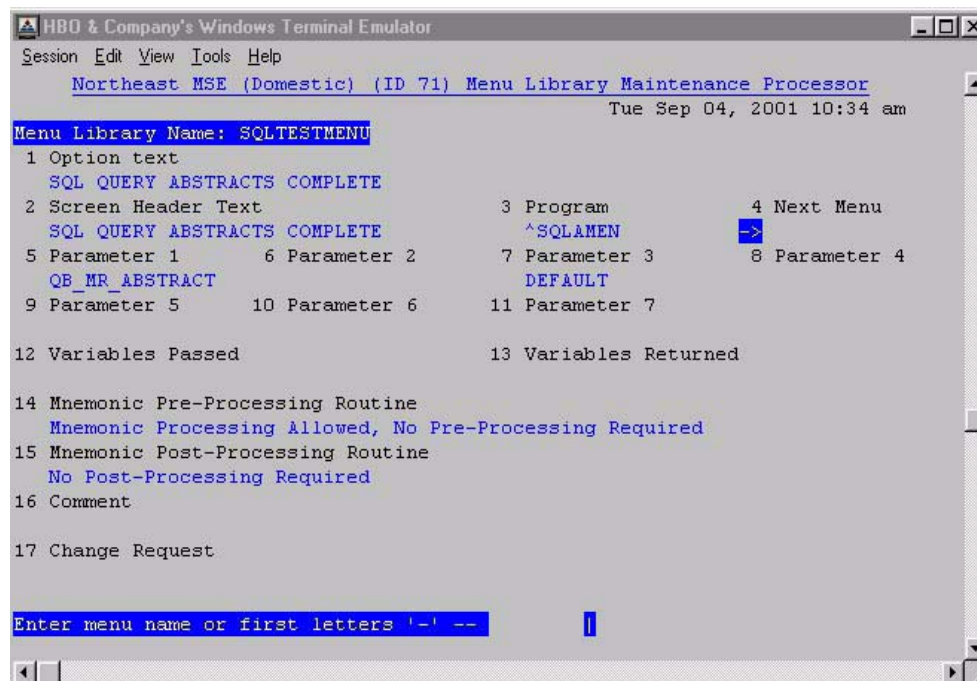
Field Explanations

The following fields are the minimum required when adding this menu library element to a menu.

1. OPTION TEXT
This is the description of the library element.

2. SCREEN HEADER TEXT
This is the option text that is displayed on the menu.

3. PROGRAM
The program needs to always be ^SQLAMEN.

5. PARAMETER 1
Enter the query name you wish to run from this element. When the user generates the query from the menu, the *Spool to Hardcopy (Y/N)* prompt is displayed only if Parameter 2 and Parameter 3 are blank.

6. PARAMETER 2
Enter a Spooler Report Name in this parameter if you wish to have the output spooled automatically to a specific report name/printer. This parameter needs be left blank if the output report is sent to the default printer for the user's CRT. If this parameter is completed, the user does not receive the *Spool to Hardcopy (Y/N)* prompt.

7. PARAMETER 3
Complete this parameter if the output report is to be directed to the default printer for the user's CRT. An entry in this parameter overrides an entry in Parameter 2. The recommended value for this parameter is *DEFAULT.*

You can also configure parameter settings on the menu library elements to limit access to the SQL options based on the SQL security. The guidelines are:

If parameter 3 of the menu library element is set to...	Then...
Null or 1	you must enter the DBA password to access the option.
2	any member of the SYS_MGRS group can access the option after they enter their password.
3	any user in any group can access the option after they enter their password.

8. PARAMETER 4
Complete this parameter if the output for a query generated from a menu should be automatically returned to the user's screen only. Any non-null value in Parameter 4 forces output to the screen only. SCREEN is the recommended value for this field.

14. MNEMONIC PRE-PROCESSING ROUTINE
Select *Processing Allow, No Pre-Processing Required.*

15. MNEMONIC POST-PROCESSING ROUTINE
Select *No Post-Processing Required.*

4. After the menu library element has been created, locked and saved, you can add it to a user's specific menu.

5. Create a separate menu library element for each individual query to be made available for the users to run from a menu.

6. If you are using STAR Navigator and have created a new menu, you must add this new menu to the user's STAR Navigator View.

NOTE: This function is designed to allow the user to run queries from a menu; the user cannot edit a query using this function.

Using the Query from a Menu Process

In the following example, menu option number 7 is the menu library element created by the steps in .

```
HBO & Company's Windows Terminal Emulator                              _ □ ×
 Session  Edit  View  Tools  Help
          Northeast MSE (Domestic) (ID 71) MPI Print Functions Processor    ▲
                                          Fri Mar 02, 2001 06:20 pm
 MPI Print Functions Input Options

          Option No.  Option
          ----------------------------------------
              1       Master Patient Index Report
              2       MPI Face Sheet
              3       Print Patient Visit List
              4       Print MSP Information
              5       Print Old Format MSP Information
              6       Audit Report

              7       SQL ABSTRACTS COMPLETE QUERY
              8       MPI Inquiry/TX Info




                                                                          ▪

 Enter option number--                                                    ▼
 ◄ □                                                                   ► □ //
```
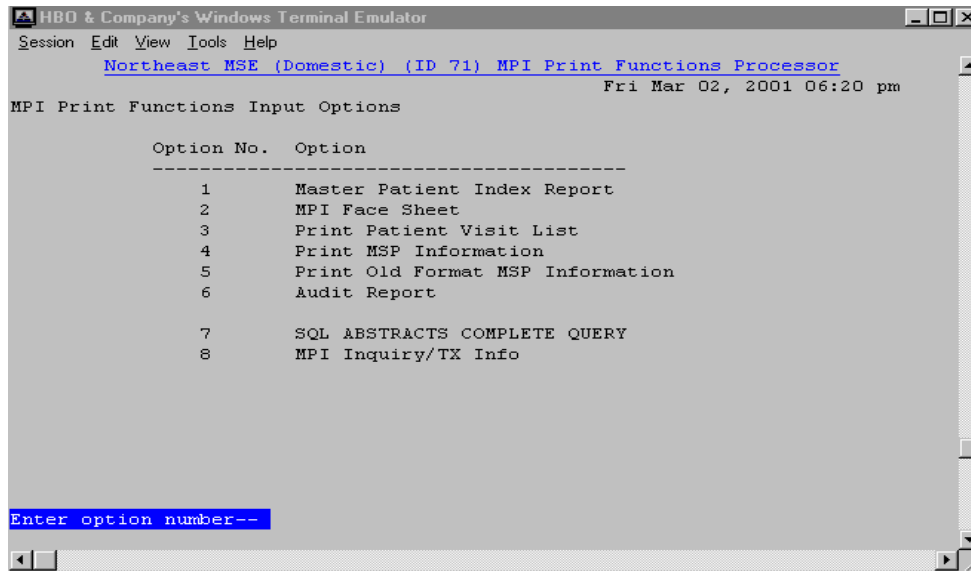
1. Select menu option to execute the specified query.

2. The parameters that were completed for this Menu Library Element control:

    •   if the user is prompted to enter a spooler report, or

    •   if the output is to be directed automatically to:

        -   a specific Spooler Report Name

        -   the default printer for the user's CRT, or

        -   the user's screen.

3. After the query executes, the system returns you to the original menu.

    NOTE: The end user does not have the ability to edit the query text via this function.

New Base Query to Identify Queries Run from a Menu

This base query helps the DBA quickly identify queries that are defined to be run from a SQL or other STAR application menu. The query name is QQ_MCK_QUERIES_RUN_FROM_A_MENU. It identifies Menu Library Elements that have been created for the Query From a Menu functionality. You can make a copy of the base query if you want to modify the query for your site.

A sample output of QQ_MCK_QUERIES_RUN_FROM_A_MENU is displayed below:

```
Library Element  Description              SQL QUERY NAME                Menu

-------------------------------------------------------------------------------
BSQLQUERYMENU    SQL QUERY FROM A MENU     SQL_TXLOG_DETAILED
SQMCFTP          Display FTP Jobs          QQ_MCK_FTP_LIST               sqmftp
SQMCMAIL         Display Email Jobs        QQ_MCK_UNIX_EMAIL_LIST        sqmemail
TESTBKB          THIS OPTION IS A DEMO     QB_BKB_TEST
TWERNER          Werner's Query From a Menu QB_DMW_AUD_QUERY_FROM_MENU
```

Security

There are several levels of security within this function for generating queries from a menu. Security is established when the new SQL User (MENU) and Group (MENU) are created and the rights and privileges are defined at that time. The site can also limit access to this function by selectively adding the new menu library element only to specific users' menus.

There is an audit of all queries generated using this option. Like other SQL queries generated, they are tracked in the standard SQL transaction logs.

RUNNING TRANSACTION LOGS FROM MENUS

Transaction logs are created for all import, query, table, view and lock transactions. There are several ways to generate the log reports. To generate the logs in KB_SQL:

- access **System Manager Options > Utilities > Transaction Logs**, or

- execute the queries specified in the table below. You can also attach the following transaction log queries to a menu:

Transaction Log menu option	Query
Compile Query Log	SQL_COMPILE_QUERY_LOG
Compile Statistics Log	SQL_COMPILE_STATISTICS_LOG
Error Log	SQL_ERROR_LOG
File Image Transactions	SQL_FILE_IMAGE_TRANSACTIONS
Import Transactions	SQL_IMPORT_TRANSACTIONS
Lock History Report	SQL_DBA_SYSTEM_LOCK_LOG
Table Transactions	SQL_TABLE_TRANSACTIONS
View Transactions	SQL_VIEW_TRANSACTIONS
Query Transactions	SQL_QUERY_TRANSACTIONS
Query Transaction Detail	SQL_TXLOG_DETAILED

RUNNING SQL FUNCTIONS FROM MENUS

The following DBA Maintenance Functions are also available as separate STAR Menu Library Elements and can be added to other DBA and non-DBA user menus.

By default, when you access these options, you must have a user account configured in STAR Vista and you must enter the DBA password. The library elements can be configured to allow access to members of the System Managers or any other group your organization deems appropriate.

The DBA Maintenance Functions that are available as STAR Menu Library Elements are:

Menu Library Name	DBA Maintenance Function
SQMHDU	SQL QRE Host Devices Update
SQMDELMQ	SQL Delete Multiple Queries
SQMPCDU	SQL Query PC Download/Upload
SQMEJS	STAR System Examine Job Status
SQMVCL	View Console Log
SQMDQBJ	SQL Display Query Batch Jobs
SQMRS	Reset SQL
SQMSLM	SQL System Lock Maintenance
SQMCPQ	SQL Compile Queries
SQMVSDV	VSD SQL Bundles View
SQMVSDI	VSD SQL Bundles Install
SQMICC	SQL Integrity Check
SQMICV	SQL Integrity View
SQMICF	SQL Integrity Fix
SQMICA	SQL Integrity ABORT
SQMAIQ	SQL Import Query (tool utility, not a DBA Maintenance function)
SQMAEQ	SQL Export Query (tool utility, not a DBA Maintenance function)

If you are Forms and Menus certified and you are a member of:

- the System Manager group, you can access these elements if your custom version parameter 3 is set to 2 and if you enter the appropriate password.

- any group, you can access these elements if your custom version parameter 3 is set to 3 and if you enter the appropriate password.

NOTE: For more information, see .

The following is a sample screen of a menu library element:

```
                General Hospital Menu Library Maintenance Processor
                                             Fri Mar 17, 2006 12:14 pm

Menu Library Name: SQMEJS
 1 Option text
   SQL STAR System Examine Job Status
 2 Screen Header Text                   3 Program           4 Next Menu
   STAR System Examine Job Status         ^AOPTION
 5 Parameter 1       6 Parameter 2      7 Parameter 3       8 Parameter 4
   ~RI               ^SQLAEJS             3
 9 Parameter 5      10 Parameter 6     11 Parameter 7

12 Variables Passed                    13 Variables Returned

14 Mnemonic Pre-Processing Routine
   Mnemonic Processing Allowed, No Pre-Processing Required
15 Mnemonic Post-Processing Routine
   No Post-Processing Required
16 Comment
   PARM 3 = NULL or 1  DBA PW, PARM 3 = 2  SYS_MGR PW, PARM 3 = 3  ANY SQL USER PW
17 Change Request
```

REPORT DISTRIBUTION VIA UNIX E-MAIL

This feature of STAR Vista Reporting is designed to facilitate sending SQL-generated reports through the Internet to a specific e-mail address.   You can use this feature to set up and use electronic distribution of your SQL reports.

NOTE: Successful implementation of the SQL results to UNIX e-mail process requires coordination between McKesson, the hospital DBA for STAR SQL, and networking professionals. The McKesson resource handles the implementation and configuration of the background services along with adding the required menus and programs. The hospital DBA for STAR SQL is responsible for the setup, coordination, and on-going maintenance of this feature at your site.

The configuration process is somewhat complex and may take several weeks to complete.

Configuration and installation

There are several steps to configure and install this service on your STAR CPU. Once the setup process has been completed, setting up jobs to be e-mailed is facilitated by STAR menus that can be accessed from options on the DBA menu.

NOTE: Menu options may vary depending on software version.

```
                General Hospital SQL DBA Menu Processor
                                            Wed May 10, 2006 11:50 am
 SQL DBA Menu Input Options


           Option No.  Option
           ----------------------------------------
               1          STAR Vista Reporting Access

               2          Unlock Query
               3          Data Dictionary Summary Print
               4          Online Table Documentation
               5          SQL Table/Node Crossreference
               6          Global Utility Access
               7          Query Transfer ID to ID

               8          DBA Maintenance Functions
               9          View Spooled Reports
              10          Write Reports to Tape

              11          UNIX Email Job Options
              12          FTP Transfer Options
              13          Alerts Job Options
 Enter option number--
```

E-mail Menu Options

The following menu options are used to maintain and monitor the schedule and tasks for UNIX e-mail and STAR Vista Reporting:

```
                 General Hospital UNIX Email Job Options Processor
                                                 Wed Aug 11, 2010 02:59 pm
UNIX Email Job Options Input Options

              Option No.  Option
              --------------------------------------
                  1        Schedule An Email Job
                  2        Edit an Email Job
                  3        Delete An Email Job
                  4        Display Email Jobs
                  5        Display Email Jobs By Time

                  6        Send All Email Jobs




Enter option number--
```

Schedule an e-mail job

This option is used to create the job or reports to be e-mailed. When you select this option, you are prompted for several pieces of information. This information is collected and sent for processing to the e-mail subsystem. The following is what the data entry screen looks like to add a job to be e-mailed:

```
              STAR VISTA REPORTING UNIX EMAIL CONFIGURATION SCREEN
 1 Filename from /hbo/sql/email
   DAILYCASH.TXT                         SCHEDULING INFORMATION
                                           (MILITARY FORMAT)
 2 Recipient #1                         7 Hour  8 Minute
   jdoe@mysite.com llee@mysite.com mr.gr    10     30

 3 Recipient #2                         9 Subject of Email
   sreddy@mysite.com justjane@mysite.com    Daily Cash Posting

 4 Recipient #3                         10 Send Email as Attachment (Y/N)?
   MMIS@mysite.com randyr@mysite.com        Y

 5 Recipient #4                         11 Comment <Optional>
   jbrown@mysite.com wwonka@mysite.com d    TEST R4835 NUMBER OF EMAIL RECIP

 6 Recipient #5
->


Enter Email Address for Recipient #5-- aprils@mysite.com davep2@mysite.com eliza
bethh@mysite.com brubble@mysite.com isdept@mysite.com
```

Multiple recipients can be entered in each Recipient # field (up to 100 characters) as long as they are separated by one space.

The following is a sample of the Display E-mail Jobs screen with 16 recipients defined:

```
                              STAR Vista Reporting
                               UNIX Email Jobs

 Seq Send                              UNIX File Name in
 Nbr Time Subject                      /hbo/sql/email directory       Attach
          Comment
 ------------------------------------------------------------------------------

  15 1414 testing 14                   TESTING14.TXT                    N

       Recipient 1: widenhofer@yahoo.com


  16 1030 Daily Cash Posting           DAILYCASH.TXT                    Y
 TEST R4835 NUMBER OF EMAIL RECIPIENTS
       Recipient 1: jdoe@mysite.com llee@mysite.com mr.grey@mysite.com voldesk@my
 site.com
       Recipient 2: sreddy@mysite.com justjane@mysite.com
       Recipient 3: MMIS@mysite.com randyr@mysite.com
       Recipient 4: jbrown@mysite.com wwonka@mysite.com davel@mysite.com
       Recipient 5: aprils@mysite.com davep2@mysite.com elizabethh@mysite.com bru
 bble@mysite.com isdept@mysite.com
```

Field Explanations

1. FILENAME FROM /HBO/SQL/EMAIL (R)
The name of the output file that is stored in the UNIX directory /hbo/sql/email.

2. RECIPIENT #1 (R)
Enter multiple e-mail addresses (up to 100 characters) of the recipients to receive this file via e-mail.

3. RECIPIENT #2 (O)
Enter multiple e-mail addresses (up to 100 characters) of the recipients to receive this file via e-mail.

4. RECIPIENT #3 (O)
Enter multiple e-mail addresses (up to 100 characters) of the recipients to receive this file via e-mail.

5. RECIPIENT #4 (O)
Enter multiple e-mail addresses (up to 100 characters) of the recipients to receive this file via e-mail.

6. RECIPIENT #5 (O)
Enter multiple e-mail addresses (up to 100 characters) of the recipients to receive this file via e-mail.

7. HOUR (R)
The hour the e-mail is to be sent, in Military format.

8. MINUTE (R)
The minute within the hour the e-mail is to be sent.

9. SUBJECT OF EMAIL (R)
The subject of the e-mail message.

10. SEND EMAIL AS ATTACHMENT (Y/N)? (R)
This field indicates whether the file is to be sent as an attachment or as the body of the message.

11. COMMENT (50-C-O)
This optional field contains comments regarding this e-mail. Enter a comment up to 50 characters.

Edit an e-mail job

The ability to edit existing scheduled UNIX Email jobs is available with STAR Vista Reporting Release 5.2 and later. If you are on a prior release, you have to delete the e-mail job and add a new e-mail job.

Select the Edit An Email Job menu option and the specific e-mail job. Make the necessary changes, and accept the screen. It can take up to 60 seconds for an update request to complete. The following message is displayed if a prior request has not completed:

Prior UNIX Email job updates in progress. Try again in 30 seconds...

Delete an e-mail job

When you delete a job, the system displays a table of all the current jobs on the system. The information displayed is the Time, Subject and Recipient #1 of the e-mail message. The operator must match up these fields and select the appropriate number of the job to be deleted from the system. When the job is selected, the entire job is deleted, and the recipients associated with the job do not receive the e-mail at the designated time.

The following is a sample of the screen for deleting a job from being e-mailed:

```
Page:01 Time   Subject                        Recipient #1              Seq#
( 1)    12 01 Daily_Census                   Test.Recipient@McKesson.com    1
( 2)    12 02 Doctors_Census                 Test.Recipient@McKesson.com    2
( 3)    15 00 Daily_Financial_Statistics     Test.Recipient@McKesson.com    4
( 4)    17 00 Patient_Insurance_List         Test.Recipient@McKesson.com    5
```

NOTE: It can take up to 60 seconds for UNIX to process the e-mail deletion request. If you attempt to delete another entry before the previous request has finished processing, the following message is displayed:

Prior UNIX E-mail job deletion in progress. Try again in 30 seconds…

Display e-mail jobs and jobs by time

You can select these menu options if you want to view the jobs that are set up for UNIX e-mail. The display includes the sequence number, scheduled time, subject, recipients, and UNIX file name. It also indicates if the query output is to be sent as an attachment.

NOTE: If you want to view e-mail jobs sorted by scheduled times, select **Display Email Jobs By Time**.

Send all e-mail jobs

The ability to send all e-mail jobs on demand is available with STAR Vista Reporting Release 5.2 and later. You can process outstanding UNIX e-mail jobs immediately rather than wait until the 11:55 pm UNIX e-mail flush.

This option is useful if e-mails were not sent due to downtime, system maintenance, or other delays in processing. You cannot specify individual jobs to send.

When you select this option, the system prompts you for your SQL password. A warning message is displayed and you are prompted to confirm the action to immediately send all e-mail jobs as shown in the following example:

```
          General Hospital Send All Email Jobs Processor

 Password:


                                 WARNING

        This function will send all pending UNIX Email files and reports!




 Do you want to send all UNIX Email jobs now? (Y/N) [N] --
```

Using the e-mail function

The last setup step is to direct queries to store the result files in the /hbo/sql/email directory. This is the default location.

Once the technical configuration of the STAR CPU has been completed, the user and the installer can test the newly installed service.   Queries must be set up to "HOST

OUT" the output file into the /hbo/sql/email directory where they are picked up and e-mailed. Once a query has been run, the DBA can access the menus to add a job to be e-mailed. Once the job is added, the job must be executed according to the time on the STAR box itself. If this does not occur, you must use the suggested troubleshooting methods to determine the causes of the problem.

Security

There is currently no encryption option for this feature. This function sends the raw data as the e-mail message without any encryption. Whenever unencrypted information is sent via the Internet, there is a rare possibility that another person might intercept and/or view the information while in transit.

AUTOMATED FTP PROCESS WITH STAR VISTA REPORTING

The FTP Transfer Option is an additional service offering and is not included as base with STAR Vista Reporting. This feature automates the distribution of STAR Vista Reporting results to other servers on your network. It simplifies the process of populating web servers and moving files and reports from STAR to personal computers or file locations with no user intervention. It allows for centralized management of the FTP process.

Configuration and installation

NOTE: Some Internet knowledge and personal computer background is needed for the successful implementation of this service. In addition, you need privileges to install client software on the target machine. Several new menu options are provided for the setup, maintenance and monitoring of this process. To access these options, select **FTP Transfer Options** from the main DBA menu.

```
                  General Hospital SQL DBA Menu Processor
                                              Wed May 10, 2006 11:50 am
SQL DBA Menu Input Options


          Option No.  Option
          --------------------------------------
              1         STAR Vista Reporting Access

              2         Unlock Query
              3         Data Dictionary Summary Print
              4         Online Table Documentation
              5         SQL Table/Node Crossreference
              6         Global Utility Access
              7         Query Transfer ID to ID

              8         DBA Maintenance Functions
              9         View Spooled Reports
             10         Write Reports to Tape

             11         UNIX Email Job Options
             12         FTP Transfer Options
             13         Alerts Job Options
Enter option number--
```

The following screen is displayed:

```
                General Hospital FTP Transfer Options Processor
                                                Wed Aug 11, 2012 03:06 pm
FTP Transfer Options Input Options


          Option No.  Option
          --------------------------------------
              1         Schedule A FTP Job
              2         Edit A FTP Job
              3         Delete A FTP Job
              4         Display FTP Jobs
              5         Display FTP Jobs By Time
              6         Send All FTP Jobs



Enter option number--
```

Schedule an FTP Job

Complete all fields on the STAR Vista Reporting Automatic FTP Setup Screen. This information is sent to Unix through MSE ports.

```
            STAR VISTA REPORTING AUTOMATIC FTP SETUP SCREEN

 1 Filename from /hbo/sql/ftp/files        SCHEDULING INFORMATION
->                                            (MILITARY FORMAT)
                                           6 Hour  7 Minute
 2 IP Address of Destination

                                           8 Destination Password
 3 Mode of Transmission

                                           9 Destination Directory
 4 Destination User


 5 Comment <Optional>


Filename from /hbo/sql/ftp/files--
```

Field Explanations

1. FILENAME FROM /hbo/sql/ftp/files
The name of the output file that is stored in the Unix directory.

2. IP ADDRESS OF DESTINATION
IP address of the target (destination) machine.

3. MODE OF TRANSMISSION
Mode of transfer - ASCII or Binary.

4. DESTINATION USER
The User ID for the target (destination) machine.

5. COMMENT (50-C-O)
This optional field contains comments regarding this job. Enter a comment up to 50 characters.

6. SCHEDULING INFORMATION - HOUR
The hour/time for the transfer to occur.

7. SCHEDULING INFORMATION - MINUTE
The minute/time for the transfer to occur.

8. DESTINATION PASSWORD
The password of the target (destination) machine.

9. DESTINATION DIRECTORY
The directory of the target (destination) machine.

Edit an FTP Job

The ability to edit existing scheduled Auto FTP jobs is available with STAR Vista Reporting Release 5.2 and later. If you are on a prior release, you have to delete the scheduled FTP job and add a new FTP job.

Select the Edit A FTP Job menu option and the specific FTP job. Make the necessary changes, and accept the screen. It can take up to 60 seconds for an update request to complete. The following message is displayed if a prior request has not completed:

Prior FTP job updates in progress. Try again in 30 seconds...

Delete an FTP Job

This menu option displays a list of all the current FTP scheduled jobs on the system. When the job is selected, the system sends a message to Unix and deletes the job from the schedule. Below is a sample of the screen for deleting a FTP scheduled job:

```
HBO & Company's Windows Terminal Emulator                         _ □ ×
Session  Edit  View  Tools  Help
          Northeast MSE (Domestic) (ID 154) Delete a FTP Job Processor
                                            Wed May 29, 2002 12:09 pm
Page:01                  SQL Reports currently being FTP'd
( 1) 06 13 STAR_CURRENT.TXT  149.21.33.135
( 2) 06 14 opssum.txt        149.21.33.135
( 3) 11 35 pgform.txt        149.21.80.50








Enter number of job to be deleted --
```

Display FTP Jobs

This menu option produces a view only screen that displays the list of scheduled Unix FTP jobs. Below is a sample screen:

```
HBO & Company's Windows Terminal Emulator                         _ □ ×
Session  Edit  View  Tools  Help
                       STAR Vista Reporting
                          UNIX FTP Jobs
                  Printed on 05/29/2002 at 12:10 PM

Seq  Send  Destination   Destination          Transmit  Destination
Nbr  Time  IP Address    Directory            Mode      User
-----------------------------------------------------------------------
 24  0613  149.21.33.135  cd /wtfiles         Ascii     wtdemo
 25  0614  149.21.33.135  cd /wtfiles         Ascii     wtdemo
 32  1135  149.21.80.50   cd /ftp test        Ascii     dwerner
End>




End, page 1, press ENTER to continue>
```

NOTE: If you want to view FTP jobs sorted by scheduled times, select Display FTP Jobs By Time.

Send All FTP Jobs

The ability to send all FTP Jobs on demand is available with STAR Vista Reporting Release 5.2 and later. This option allows the user to send all FTP jobs immediately rather than wait until the 11:55 pm FTP flush.

This option is useful if files were not sent due to downtime, system maintenance, or other delays in processing. It processes all files in the /hbo/sql/ftp/files directory and you cannot specify individual jobs to send. If you elect to manually FTP individual files, you must remove them from the directory to prevent re-sending them using this option or having them processed with the 11:55 pm FTP flush.

When you select this option, the system prompts you for your SQL password. A warning message is displayed, and you are prompted to confirm the action to immediately send and process all pending FTP files.

```
                General Hospital Send All FTP Jobs Processor

 Password:

                                WARNING

           This function will send all pending FTP files!




 Do you want to send all FTP jobs now? (Y/N) [N] --

```

MISCELLANEOUS FUNCTIONS

Guidelines for Comment Lines (Double Dash -- and Multi-line /* */)

In order to support query syntax that can be used by both the original character-based SQL Editor and the Windows-based QRE Editor, a stricter set of syntax rules are recommended, particularly in regard to comment lines. Although the double dash (- -) comments are still supported, our third-party vendor Knowledge Based Systems strongly encourages the use of the /* */ multi-line comment syntax instead of double dash comments to avoid potential issues related to comment lines.

```
/* This is an example of a multi-line comment. You can comment out
 multiple lines using the slash asterisk at the beginning and an asterisk
 slash at the end of the comment.
*/
SELECT PAT_ACCT_NBR, PAT_TYPE, DSCHRG_DT
FROM AG_DSCHRG_DT_IDX
```

Updated comment line guidelines are as follows:

- Use the multi-line /* */ comment designation instead of a double dash -- comment whenever possible.

- Double dash comment lines must be terminated with a hard return by pressing the ENTER key to advance to the next line.

- The maximum allowable length of any line with a double dash -- comment in the SQL Editor and QRE 5.2 is now 75 characters. This is the maximum length for one line of text in the SQL Editor window.

- Lines with double dash comments that exceed 75 characters and wrap to another line will be split into one or more lines. The split syntax that exceeds 75 characters may produce a parsing error, be treated as active syntax rather than comment, or be treated as comment rather than active syntax.

- In QRE 5.2 there are new Editor Settings under Tools and Options to assist in determining where the 75th position is within a line in the QRE Editor window.

    - Enable Line Length Limit   (Limits right margin to 75 characters)

    - Enable Right Margin Display   (Displays a vertical line along right margin)

    - Enable Status - Coordinates   (Displays line and column for current position)

Column headings in a download file

You can create column headings in a download file. If you enter the SET COLUMN_HEADINGS ON statement, headings are produced in the first record of a download file. For example:

```
SET COLUMN_HEADINGS ON
SET FILE = 'C:\TEST.TXT'
SET FORMAT = 'COMMA'
```

NOTE: You cannot use the column headings option for FIXED format files.

Message headers

The SET NTP_MESSAGE_HEADERS ON statement allows you to produce a page of a report with the title and column headings even when there is no information on the report.

The following is a sample query including the SET NTP_MESSAGE_HEADERS ON statement:

```
KB_SQL Vx.x                                      QB_PRINT_OUTPUT_DEMO
 /* This is an example query to demonstrate the options for report
 output when there is nothing to print
 */
  SET NTP_MESSAGE_HEADERS ON

 READ     :XBEG DATE PROMPT "Enter Beginning Birth Date"
          ,:XEND DATE PROMPT "Enter Ending Birth Date"

 SELECT  PAT_NAME LEFT 25 HEADING "Name"
         ,BIRTHDATE RIGHT 10 HEADING "Date of|Birth"
         ,SEX CENTER 3 HEADING "Sex"
         ,PAT_STATE LEFT 2 HEADING "State"
```

If you run the query above and there is no output, results are sent to the spooler. For example:

```
Model Hospital            View Spooled Reports Processor
                                          Fri Apr 16, 2004 12:04 pm
Report :SQLDEMAND  SQL Demand Report         Position:##
Spooled: 04/16/04 1204                       Last Printed: Not Printed
                                                               page 1
                        PATIENTS BORN IN 2003
                 For Dates 01/01/2003 through 12/31/2003
                     Printed on 04/16/2004 at 12:04

                            Date of
Name                         Birth  Sex  State
-------------------------------------------------------------------
0737: Query QB_PRINT_OUTPUT_DEMO - nothing to print
```

Chapter 6 - STAR FINANCIALS

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Illustrations

INTRODUCTION

This is the STAR Financials section of the *STAR Vista Reporting/SQL Reference Guide*. In the following pages, you can see the new and modified tables that STAR Vista Reporting uses in the STAR Financials' modules.

This section also briefly discusses functions relative to STAR Financials. Refer to the *KB_SQL Database Administrator's Guide* for details of creating and modifying tables and functions.

A few sample queries with their descriptions and results are included. Refer to the *KB_SQL Reference Guide* for information on building, modifying, and running queries.

VIEWS

A *view* is a *virtual table* whose information is defined by a user. Views provide major benefits including:

- *Security*

  Users can be given access to the data through views, restricting access to sensitive information.

- *Query Simplicity*

  A view can be created from several tables and be presented to the user as only one table (a *virtual table*).

- User Simplicity

  Views can be tailored to a user's scope or access, defining his/her view of the data.

The EZQ Editor has a limitation of using one table at a time; therefore, views can offer a better variety of information. If your department is using the EQZ Editor more frequently than the SQL Editor, you may find it helpful to create more views. When the EZQ Editor asks for a table name to be entered, you can enter the name of a view for diversified reporting needs.

The McKesson database naming conventions for VIEWS are as follows:

Naming Conventions for Queries Creating VIEWS:

Q   _____   V_Description

| | |

| | |_____VIEW

| |

| |_____Product Letter: G=STAR FINANCIALS Accounts Payable

| H=STAR FINANCIALS Payroll/Personnel

| I=STAR FINANCIALS Materials Management

| J=STAR FINANCIALS General Ledger

| F=STAR FINANCIALS Patient Accounting

| A=STAR-Allstar

| C=STAR-Patient Care

| L=STAR-Laboratory

| P=STAR-Pharmacy

| X=STAR-Radiology

|_____Query

EXAMPLE:QLV_LAB_CLINICAL_VIEW

Naming Conventions for VIEWS:

V_View Name

EXAMPLE:V_LAB_CLINICAL_VIEW

The following pages show sample VIEW descriptions and sample queries to create the VIEWS described. These views are examples of how to create a view. If changes are needed to a view, the SQL user needs to copy the query to another name using his or her hospital's naming convention. The VIEW name itself could be changed as well. This prevents the query and view from being overwritten with an application upgrade. For more information on the creation of VIEWS, please refer to the *KB_SQL Database Administrator's Guide* and the *KB_SQL Reference/User's Guide*.

Accounts Payable

V_ONE TIME VENDOR VOUCHERS

Sample View Description

Query Name:QGV_OT_VENDOR

View Name:V_One Time Vendor Vouchers

Description:

This view allows the user to print a report that lists all Vendors that are classified as One Time Vendors and prints all associated vouchers for the vendor.

Notes:

None.

Sample Query To Create View

```
   Query Name: QGV_OT_VENDOR                     Routine:
      Printed: 08/05/91 at 2:12 PM
 Description: ONE TIME VENDOR INVOICES
   Last edit: 07/26/91 at 3:46 PM by DBA
Last compile: 07/05/91 at 2:59 PM

SQL Text
========
--This View will list vendors that are designated as One Time
--Vendors and will list any outstanding invoices.

CREATE VIEW V_QG_OT_Vendor (Entity,Vendor, Vouch, Amt)as
SELECT        ENT ,Vendor_Mstr_Lnk@Ven_Name, Vou_Nbr,
                  INVOICE_HEADER_LNK@TOTAL
FROM              G_Vchrs_1Time_Ven V
WHERE             Vendor_Mstr_Lnk@OT_VEN = 1


End>
```

General Ledger

V_GLDATA

Sample View Description

Query Name:QJV_GLDATA

View Name:V_GLDATA

Description:

This view allows the user to report on data from the Account Master, the Subaccount Master, and the Department Master, as well as the Subaccount Report Groups.

Notes:

This view can be used if more information than is available on a single table is needed.

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Sample Query To Create View

```
     Query Name: QJV_GLDATA                        Routine:
        Printed: 08/02/91 at 5:14 PM
    Description: GL DATA
      Last edit: 07/11/91 at 11:13 AM by DBA


  SQL Text
  ========
  --THIS VIEW WILL PROVIDE THE USER WITH THE CAPABILITY TO LINK
  --SUBACCOUNT AND DEPARTMENT MASTER INFORMATION TOGETHER WITH
  --ACCOUNT MASTER.
  CREATE VIEW V_GLDATA (SHORT_NAME, ACCT_DESC, GL_DPT, SUBACCT, GRP_DESC,
  RPT_GRP, BUDGET_TYPE, CLASS_CD, HSL_STATS, HSL_SUBACCT, STAT_CODES) AS
  SELECT  SHORT_NAME, ACCT_DESC, GL_DPT, SUBACCT, GRP_DESC, RPT_GRP,
          BUDGET_TYP, CLASS_CD, HSL_STATS, HSL_SUBACCT, STAT_CD
  FROM    J_ACCOUNT_MSTR A, J_REPORT_GROUPS B, J_DEPT_MASTER C,
  J_SUBACCT_MASTER, D
  WHERE   A.ENT=B.ENT AND A.ENT=C.ENT AND A.ENT=D.ENT
          AND A.FSCL_YR=B.FSCL_YR AND A.FSCL_YR=C.FSCL_YR AND
  A.FSCL_YR=D.FSCL_YR
          AND A.GL_DPT=B.GL_DPT AND A.GL_DPT=C.GL_DPT
          AND A.SUBACCT=B.SUBACCT AND A.SUBACCT=D.SUBACCT


  End>
```

Materials Management

V_QI_ELECTRAN

Sample View Description

> **Query Name:**QIV_GMR001
>
> **View Name:**V_QI_ELECTRAN
>
> **Description:**
>
> This view displays Purchase Order information that is being prepared to be transmitted electronically to various vendors.

Sample Query To Create View

```
     Query Name: QIV_GMR001                          Routine:
         Printed: 08/02/91 at 1:40 PM
     Description: MATERIALS VIEW ON PO'S READY TO TRANSMIT
        Last edit: 07/15/91 at 4:46 PM by DBA


    SQL Text
    ========
    -- This view displays Purchase Orders which are ready to be
    -- electronically transmitted to various vendors.
    CREATE VIEW V_QI_ELECTRAN (PO, LINE, VENDOR, QTY) AS
    SELECT  PO_NBR, PO_LN_NBR, VND_NBR, PO_QTY
    FROM    I_PO_DTL A, I_PO_ELCT_TRNSFR B
    WHERE   A.ENT = B.ENT
            AND A.PO_NBR = B.PO_NBR
    End>
```

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Patient Accounting

QFV_FAIL_BILL_VIEW

Sample View Description

Query Name:QFV_FAIL_BILL_VIEW

View Name:V_FAIL_BILL_VIEW

Description:

This view can be used to query information from multiple tables to *build* a *new* table that can be used in subsequent queries. In this example the Biller Index is used (FB_BLLR_INDX_BILL) and bills with errors (INDX_TYPE=1) are selected. Using the foreign keys, additional information is accessed from the FA_FIN_MASTER, FB_WRK_BLL_WTH_ERR, and FB_BILL_AUDIT tables. The *Drop View* command can be commented out initially, as it is not needed until you have executed this query on your system.

Notes:

None.

Sample Query To Create View

```
      Query Name: QFV_FAIL_BILL_VIEW                    Routine:
         Printed: 08/02/91 at 5:11 PM
     Description: Create View of Failed Bills
       Last edit: 07/17/91 at 12:58 PM by DBA


SQL Text
========
--This view can be used to extract information from multiple tables to
--build a new table which can be used for subsequent queries.
--In this example the Biller Index is used (FB_BLLR_INDX_BILL) and
--bills with errors (INDX_TYPE = 1) are selected. Using the foreign
--keys additional information is accessed from the FA_FIN_MASTER,
--FB_WRK_BLL_WTH_ERR,and FB_BILL_AUDIT tables.  The Drop View
--command can be commented out as it is not needed until this query has
--been executed on your system.


--DROP VIEW V_FAIL_BILL_VIEW


CREATE VIEW V_FAIL_BILL_VIEW (BLLR_CD,BLLR_NAME,BILL_DT,BILL_SEQ,
        PAT_ACCT_NBR,BILL_EDIT_ERR_FLG,BILL_FROM_DT,BILL_THRU_DT,
        BILL_REQ_TYPE,BILL_SELECT_CD,CMNT,PAT_NAME,USER_ID,USER_NAME,
        ACCT_BAL,ADM_DR,ADM_DR_NAME,ATND_DR,ATND_DR_NAME,FIN_CLASS,
        FIN_CLASS_DESC,FIN_MED_SERV,PAT_TYPE,PROVIDER_NBR,UNBILLED_CHG_CNT,
        UNBILLED_CHG_TOT,ADJ_ON_BILL,BILL_ADJ_SEQ,BILL_AMT,BILL_PAYMENTS,
        BILL_SEQ_ADJ,DRG_COST_IND,DRG_STAY_IND,FINAL_DRG,NEW_CHG,
        PMT_ON_BILL,PREV_BILL_CHG)


AS SELECT BLLR_CD,
        BLLR_NAME,
        BILL_DT,
        BILL_SEQ,
        PAT_ACCT_NBR,
        ERROR_LINK@BILL_EDIT_ERR_FLG,
        ERROR_LINK@BILL_FROM_DT,
        ERROR_LINK@BILL_THRU_DT,
        ERROR_LINK@BILL_REQ_TYPE,
        ERROR_LINK@BILL_SELECT_CD,
        ERROR_LINK@CMNT,
        ERROR_LINK@PAT_NAME,
        ERROR_LINK@USER_ID,
        ERROR_LINK@USER_NAME,
```

```
                    FIN_LINK@ACCT_BAL,

                    FIN_LINK@ADM_DR,

                    FIN_LINK@ADM_DR_NAME,

                    FIN_LINK@ATND_DR,

                    FIN_LINK@ATND_DR_NAME,

                    FIN_LINK@FIN_CLASS,

                    FIN_LINK@FIN_CLASS_DESC,

                    FIN_LINK@FIN_MED_SERV,

                    FIN_LINK@PAT_TYPE,

                    FIN_LINK@PROVIDER_NBR,

                    FIN_LINK@UNBILLED_CHG_CNT,

                    FIN_LINK@UNBILLED_CHG_TOT,

                    BILL_AUDIT_LINK@ADJ_ON_BILL,

                    BILL_AUDIT_LINK@BILL_ADJ_SEQ,

                    BILL_AUDIT_LINK@BILL_AMT,

                    BILL_AUDIT_LINK@BILL_PAYMENTS,

                    BILL_AUDIT_LINK@BILL_SEQ_ADJ,

                    BILL_AUDIT_LINK@DRG_COST_IND,

                    BILL_AUDIT_LINK@DRG_STAY_IND,

                    BILL_AUDIT_LINK@FINAL_DRG,

                    BILL_AUDIT_LINK@NEW_CHG,

                    BILL_AUDIT_LINK@PMT_ON_BILL,

                    BILL_AUDIT_LINK@PREV_BILL_CHG


    FROM      FB_BLLR_INDX_BILL


    WHERE     INDX_TYPE=1



    End>
```

V_CUR_YR_DIS_W_FIN_INFO

Sample View Description

Query Name: QFV_CUR_YR_DIS_W_FIN_INFO_VIEW

View Name: V_CUR_YR_DIS_W_FIN_INFO

Description:

This query creates a view containing selected columns from AG_MEDICAL and FA_FIN_MASTER, using the discharge date index, AG_DSCHRG_DT_IDX, to limit the results to the current year's discharged accounts.

This view can be used for creating Administrative reports. Examples include a list of all accounts discharged in the current year and their total charges.

Notes:

The data for this view exists only on a CPU that has STAR Financials.

Sample Query To Create View

```
   Query Name: QFV_CUR_YR_DIS_W_FIN_INFO_VIEW          Routine:
       Printed: 08/03/00 at 11:13 AM
  Description: Current year's discharges and financial info
     Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM


SQL Text
========


-- Current year's discharges with Financial Info
-- Must be used on a CPU that has STAR Financials

CREATE VIEW  V_CUR_YR_DIS_W_FIN_INFO
(INTN
 ,AN
 ,DSCHRG_DT
 ,ADM_DT
 ,PAT_TYP
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,FIN_CLASS
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,TOTAL_CHGS
 ,ACCT_BAL
 ,ACCT_LOC
 ,FNL_BILL_DT
 ,LAST_SERV_DT)

 AS

SELECT   INTN
,AN
,DSCHRG_DT
,MED_LINK@ADM_DT
,PAT_TYP
,PAT_ACCT_NBR
,PAT_NAME
,FIN_LINK@FIN_CLASS
,MED_LINK@ATTEND_PHY
```

```
              ,MED_LINK@ATTEND_PHY_NM

              ,FIN_LINK@TOT_CHGS

              ,FIN_LINK@ACCT_BAL

              ,FIN_LINK@ACCT_LOC

              ,FIN_LINK@FNL_BILL_DT

              ,FIN_LINK@PAT_LTE_SERV_DT


      FROM              AG_DSCHRG_DT_IDX
      WHERE   DSCHRG_DT BETWEEN TODAY -SQL_FN_DAYOFYEAR(TODAY-1) AND TODAY-1
```

V_DSCHRGS_W_CHGS

Sample View Description

> **Query Name:**QFV_DSCHRGS_W_CHGS_VIEW
>
> **View Name:**V_DSCHRGS_W_CHGS
>
> **Description:**
>
> This query creates a view containing selected columns from FC_CHG, using the discharge date index, AG_DSCHRG_DT_IDX, to limit the results to the current year's discharged accounts.
>
> This view can be used for creating Administrative reports. Examples include a list of all accounts discharged in the current year and the detailed charges for each account.
>
> **Notes:**
>
> The data for this view exists only on a CPU that has STAR Financials.

Sample Query To Create View

```
    Query Name: QFV_DSCHRGS_W_CHGS_VIEW          Routine:
       Printed: 08/03/00 at 11:13 AM
   Description: Current year's discharges and detailed charges
     Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM


SQL Text
========


-- This creates a view of the current year's discharges and
-- the accounts' charges
-- Must be run on a CPU with STAR FINANCIALS


CREATE VIEW V_DSCHRGS_W_CHGS
(INTN
 ,AN
 ,DSCHRG_DT
 ,ADM_DT
 ,PAT_TYP
 ,FIN_CLASS
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,CHG_DT
 ,CHG_AMT
 ,CHG_QTY
 ,SIM_CD
 ,SIM_DESC
 ,FIM_CD
 ,CHG_DX_CD
 ,CHG_DX_DESC
 ,PAT_IND
 ,HCPCS_CD
 ,MED_SERV
 ,CHG_LOC
 ,ORD_PHY
 ,ORD_PHY_NM
 ,UB82_CD)


AS
SELECT   A.INTN
```

```
            ,A.AN
            ,A.DSCHRG_DT
            ,A.MED_LINK@ADM_DT
            ,A.PAT_TYP
            ,A.FIN_LINK@FIN_CLASS
            ,A.PAT_ACCT_NBR
            ,A.PAT_NAME
            ,B.CHG_DATE
            ,B.CHG_AMT
            ,B.CHG_QTY
            ,B.SIM_CODE
            ,B.SIM_DESC
            ,B.CHG_BILL_CD
            ,B.DIAG_FOR_CHG
            ,B.DIAG_CD_DESC
            ,B.FIN_PAT_IND
            ,B.HCPCS_CD
            ,B.MED_SERV
            ,B.CHG_LOC
            ,B.ORD_PHYS
            ,B.ORD_PHYS_NAME
            ,B.UB82_CD


FROM      AG_DSCHRG_DT_IDX AS A
                  ,FC_CHG AS B




WHERE
 A.DSCHRG_DT BETWEEN TODAY - (SQL_FN_DAYOFYEAR(TODAY-1)) AND (TODAY-1)
AND A.INTN=B.INTN
AND A.AN=B.AN
```

V_AR_ACCNTS

Sample View Description

Query Name:QFV_AR_ACCNTS_VIEW

View Name:V_AR_ACCNTS

Description:

This query creates a view containing selected columns from AG_MEDICAL, FA_FIN_MASTER and

FA_LOCATION. The results are restricted to those accounts in AR.

This view can be used for creating Administrative reports. Examples include a list of all accounts in AR and their balances.

Notes:

The data for this view exists only on a CPU that has STAR Financials.

Sample Query To Create View

```
   Query Name: QFV_AR_ACCNTS_VIEW          Routine:
       Printed: 08/03/00 at 11:13 AM
  Description: View of accounts in AR
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM


SQL Text
========


-- Create a VIEW of accounts in AR
-- Must be run from a CPU that has STAR Financials

CREATE VIEW V_AR_ACCNTS
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ACCT_LOC
 ,FIN_CLASS
 ,PAT_TYPE
 ,MED_SERV
 ,ADM_DT
 ,DSCHRG_DT
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,PR_DIAG_CD
 ,PR_DIAG_DESC
 ,FNL_DRG
 ,ACCT_BAL
 ,TOT_CHGS
 ,FNL_BILL_DT)

AS

SELECT   INTN
,AN
,PAT_ACCT_NBR
,PAT_NAME
,ACCT_LOC
,FIN_CLASS
```

```
         ,MED_LINK@PAT_TYPE

         ,MED_LINK@SERVICE_CD

         ,MED_LINK@ADM_DT

         ,MED_LINK@DSCHRG_DT

         ,MED_LINK@ATTEND_PHY

         ,MED_LINK@ATTEND_PHY_NM

         ,MED_LINK@ABST_DIAG_LINK@PR_DIAG_CD

         ,MED_LINK@ABST_DIAG_LINK@PR_DIAG_DESC

         ,MED_LINK@ABST_DRG_LINK@DRG_FINAL_NBR

         ,ACCT_BAL

         ,FIN_LINK@TOT_CHGS

         ,FIN_LINK@FNL_BILL_DT


FROM     FA_LOCATION


WHERE    ACCT_LOC = 2
```

V_PA_ACCNTS

Sample View Description

Query Name: QFV_PA_ACCNTS_VIEW

View Name: V_PA_ACCNTS

Description:

This query creates a view containing selected columns from AG_MEDICAL and FA_FIN_MASTER using FA_LOCATION to limit the records to only those accounts in PA.

This view can be used for creating Administrative reports. Examples include a list of all accounts in PA and their total charges and account balances.

Notes:

The data for this view exists only on a CPU that has STAR Financials.

Sample Query To Create View

```
   Query Name: QFV_PA_ACCNTS_VIEW          Routine:
       Printed: 08/03/00 at 11:13 AM
  Description: Accounts in PA
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM


SQL Text
========


-- This creates a View of accounts in PA. These accounts may be discharged
-- but not final billed yet.
-- Must be on a CPU with STAR Financials

CREATE VIEW V_PA_ACCNTS
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ACCT_LOC
 ,FIN_CLASS
 ,PAT_TYPE
 ,MED_SERV
 ,ADM_DT
 ,DSCHRG_DT
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,ADM_DX
 ,ADM_DX_DESC
 ,WK_DX
 ,WK_DX_DESC
 ,ACCT_BAL
 ,TOT_CHGS)

AS

SELECT   INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ACCT_LOC
```

```
          ,FIN_CLASS
          ,MED_LINK@PAT_TYPE
          ,MED_LINK@SERVICE_CD
          ,MED_LINK@ADM_DT
          ,MED_LINK@DSCHRG_DT
          ,MED_LINK@ATTEND_PHY
          ,MED_LINK@ATTEND_PHY_NM
          ,MED_LINK@ADM_DIAG_CD
          ,MED_LINK@ADM_DIAG_DESC
          ,MED_LINK@WK_DIAG_CD
          ,MED_LINK@WK_DIAG
          ,ACCT_BAL
          ,FIN_LINK@TOT_CHGS

   FROM      FA_LOCATION
   WHERE     ACCT_LOC = 1
```

V_BD_ACCNTS

Sample View Description

Query Name: QFV_BD_ACCNTS_VIEW

View Name: V_BD_ACCNTS

Description:

This query creates a view containing selected columns from AG_MEDICAL, FA_FIN_MASTER, and FA_LOCATION. The results are restricted to those accounts in Bad Debt.

This view can be used for creating Administrative reports. Examples include a list of all accounts in Bad Debt.

Notes:

The data for this view exists only on a CPU that has STAR Financials.

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Sample Query To Create View

```
   Query Name: QFV_BD_ACCNTS_VIEW          Routine:
       Printed: 08/03/00 at 11:13 AM
  Description: View of accounts in Bad Debt
     Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM


SQL Text
========


-- Create a VIEW of accounts in Bad Debt
-- This must be run from a CPU with STAR Financials
-- These additional data fields may be needed in a report on Bad Debt
-- Accounts, COLL_AGNCY_CD, AGNCY_TRNSFR_BAL, and AGNCY_TRNSFR_DT
-- They can be found in the SQL table FF_GUAR_ACT_ACCT. An SQL
-- query could be written that joins this VIEW, V_BD_ACCNTS, with
-- FF_GUAR_ACT_ACCT.



CREATE VIEW V_BD_ACCNTS
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ACCT_LOC
 ,FIN_CLASS
 ,PAT_TYPE
 ,MED_SERV
 ,ADM_DT
 ,DSCHRG_DT
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,PR_DIAG_CD
 ,PR_DIAG_DESC
 ,FNL_DRG
 ,ACCT_BAL
 ,TOT_CHGS
 ,FNL_BILL_DT
 ,PRELIST_DT)


AS
```

```
SELECT    INTN
,AN
,PAT_ACCT_NBR
,PAT_NAME
,ACCT_LOC
,FIN_CLASS
,MED_LINK@PAT_TYPE
,MED_LINK@SERVICE_CD
,MED_LINK@ADM_DT
,MED_LINK@DSCHRG_DT
,MED_LINK@ATTEND_PHY
,MED_LINK@ATTEND_PHY_NM
,MED_LINK@ABST_DIAG_LINK@PR_DIAG_CD
,MED_LINK@ABST_DIAG_LINK@PR_DIAG_DESC
,MED_LINK@ABST_DRG_LINK@DRG_FINAL_NBR
,ACCT_BAL
,FIN_LINK@TOT_CHGS
,FIN_LINK@FNL_BILL_DT
,FIN_LINK@PRELIST_DT

FROM      FA_LOCATION
WHERE     ACCT_LOC = 3
```

V_AR_ADJUSTMENTS_ACCNTS

Sample View Description

Query Name: QFV_AR_ADJUSTMENTS_VIEW

View Name: V_AR_ADJUSTMENTS_ACCNTS

Description:

This query creates a view containing selected columns from FT_TRAN_HIST_ADJ. The results are restricted to those accounts in AR with adjustments.

This view can be used for creating Administrative reports. Examples include a list of all accounts in AR with adjustments.

Notes:

The data for this view exists only on a CPU that has STAR Financials.

Sample Query To Create View

```
  Query Name: QFV_AR_ADJUSTMENTS_VIEW          Routine:
     Printed: 08/03/00 at 11:13 AM
 Description: View of AR adjustments
   Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM


SQL Text
========


-- View of Accounts in AR and the Adjustments to these accounts
-- Run on a CPU with STAR Financials


CREATE VIEW V_AR_ADJUSTMENTS_ACCNTS
(INTN
 ,AN
 ,TRAN_DT
 ,TRAN_AMT
 ,TRAN_CD
 ,TRAN_CD_DESC
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,BAL_PRI_TRAN
 ,NEW_ACCT_BAL
 ,CMNT
 ,FRM_CARRIER
 ,USER_ID
 ,USER_NAME)


AS


SELECT   B.INTN
,B.AN
,B.TRAN_DT
,B.TRAN_AMT
,B.TRAN_CD
,B.TRAN_CD_DESC
,B.PAT_ACCT_NBR
,B.PAT_NAME
,B.BAL_PRI_TRAN
,B.NEW_ACCT_BAL
```

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```
            ,B.CMNT
            ,B.FRM_CAR
            ,B.USER_ID
            ,B.USER_NAME


    FROM    FA_LOCATION AS A
            ,FT_TRAN_HIST_ADJ AS B


    WHERE   A.ACCT_LOC = 2
      AND   B.INTN = A.INTN
      AND   B.AN = A.AN
```

V_AR_CASH_PYMNTS_ACCNTS

Sample View Description

Query Name:QFV_AR_CASH_PYMNTS_ACCNTS_VIEW

View Name:V_AR_CASH_PYMNTS_ACCNTS

Description:

This query creates a view containing selected columns from FT_TRAN_HIST_CASH. The results are restricted to those accounts in AR with cash payments.

This view can be used for creating Administrative reports. Examples include a list of all accounts in AR with cash payments.

Notes:

The data for this view exists only on a CPU that has STAR Financials.

Sample Query To Create View

```
    Query Name: QFV_AR_CASH_PYMNTS_ACCNTS_VIEW          Routine:
        Printed: 08/03/00 at 11:13 AM
   Description: View of AR cash payments
     Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM


SQL Text
========


-- View of Accounts in AR and Cash Payments on these accounts
-- Must be run on a CPU with STAR Financials


CREATE VIEW V_AR_CASH_PYMNTS_ACCNTS

(INTN
 ,AN
 ,TRAN_DT
 ,TRAN_AMT
 ,TRAN_CD
 ,TRAN_DESC
 ,BAL_PRIOR_TRAN
 ,NEW_BALANCE
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,TRAN_CARRIER
 ,CMNT
 ,FINAL_PMT_FLAG
 ,USER_ID
 ,USER_NAME)

AS

SELECT   B.INTN
,B.AN
,B.TRAN_DT
,B.TRAN_AMT
,B.TRAN_CD
,B.TRAN_CD_DESC
,B.BAL_PRI_TRAN
,B.NEW_ACCT_BAL
```

```
        ,B.PAT_ACCT_NBR

        ,B.PAT_NAME

        ,B.FRM_CAR

        ,B.CMNT

        ,B.FINAL_PMT_FLG

        ,B.USER_ID

        ,B.USER_NAME


FROM      FA_LOCATION AS A

          ,FT_TRAN_HIST_CASH AS B


WHERE     A.ACCT_LOC = 2

   AND    B.INTN = A.INTN

   AND    B.AN = A.AN
```

V_EMPLOYEE_INFO

Sample View Description

        Query Name:QHV_EMPLOYEE_INFO_VIEW

        View Name:V_EMPLOYEE_INFO

        Description:

        This query creates a view containing selected columns from the HE_EMP_LOC_REC table.

        This view can be used for creating Administrative reports. Examples include a list of all employees hired within a given time frame.

        Notes:

        The data for this view exists only on a CPU that has STAR Financials.

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Sample Query To Create View

```
   Query Name: QHV_EMPLOYEE_INFO_VIEW           Routine:
       Printed: 08/03/00 at 11:13 AM
   Description: Common Human Resource Employee info
     Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM


SQL Text
========


-- This query create a view of the common employee information
-- requested by Human Resources

CREATE VIEW   V_EMPLOYEE_INFO
(EMP_NBR
 ,EMP_NAME
 ,HOME_DEPT_NBR
 ,HOME_DEPT_NAME
 ,EMP_HIRE_DT
 ,EMP_TERM_DT
 ,DIV
 ,EMP_STATUS_CD
 ,EMP_STATUS_DESC
 ,WORK_STATUS_CD)


 AS


SELECT    EMP_NBR
,BASIC_LINK@EMP_NAME
,HOME_DEPT_NBR
,HOME_DEPT_NAME
,EMP_HIRE_DT
,EMP_TERM_DT
,DIV
,EMP_STATUS_CD
,EMP_STATUS_DESC
,WORK_STATUS_CD


FROM      HE_EMP_LOC_REC
```

SAMPLE QUERIES, DESCRIPTIONS, RESULTS

Accounts Payable

LOST DISCOUNTS PAID AND UNPAID INVOICES

Query Description

Report Name: Lost Discounts Paid and Unpaid Invoices

Query Name: QGG_GARLDPU

Selection Criteria: Entity, Period from/to

Sort(s):   Vendor

Invoice Date

Invoice

Description:

This report shows all invoices for a vendor whether paid or unpaid that discounts have been lost. The report lists alphabetically by vendor and shows purchase order number, invoice status, discount date, date paid, and amount of discounts lost. It also totals the amount of lost discounts per vendor. A grand total of all vendors is also listed.

Sample Query

```
   Query Name: QGG_GARLDPU                         Routine:
       Printed: 04/30/91 at 4:59 PM
 Description: Lost Discounts by Vendor For All Invoices Paid/Unpaid
    Last edit: 04/18/91 at 10:32 AM by DBA
Last compile: 04/18/91 at 10:35 AM

SQL Text
-- The purpose of this report is to inform the user of vendor discounts
-- which have been lost because the invoices were not paid within the
-- vendors' terms.

READ :XEC CHAR(2) HEADING 'ENTER ENTITY CODE'

SELECT VEN.VEN_NAME CHANGED HEADING 'VENDOR',
       INV.INV_DATE HEADING ' INV DT' COLUMN 1,
       INV.INV_NBR HEADING 'INV',
       INV.PO_NBR HEADING 'PO',
       (INV.DISC_DAYS+INV.INV_DATE) AS DUE HEADING 'DISC DATE',
       INV.CK_PRNT_DT HEADING 'PAID' DEFAULT '--------',
       ROUND (((INV.DISC_PCT*INV.TOTAL)+INV.FLAT_DISC),2) AS LOST HEADING
       'LOST DISC'


FROM G_INVOICE_HEADER INV, G_VENDOR_MASTER VEN

WHERE ENT = :XEC
   AND INV.INV.VEN_NBR = VEN.VEN_NBR
    AND DUE < TODAY
    AND LOST > 0


ORDER BY VEN.VEN_NAME, INV.INV_DATE

BREAK AT VEN.VEN_NAME SKIP 2
BREAK AFTER VEN.VEN_NAME
  WRITE '  VENDOR LOST DISCOUNTS:  '| SUM(LOST BY 1) COLUMN 35

FINAL   SKIP 2
  WRITE 'TOTAL LOST DISCOUNTS:  '| SUM(LOST BY 0) COLUMN 35

HEADER
    WRITE  'LOST DISCOUNTS PAID AND UNPAID INVOICES' CENTER 80
```

```
    WRITE    TODAY CENTER 80

 FOOTER
    WRITE   'FOR INTERNAL USE ONLY' CENTER 80
    WRITE   'PAGE: ' | PAGE_NUMBER CENTER 80



End>
```

Figure 6.1 Lost Discounts Paid & Unpaid Invoices

```
                   LOST DISCOUNTS PAID AND UNPAID INVOICES
                               05/06/91

VENDOR
  INV DT  INV                   PO  DISC DATE   PAID   LOST DISC
-----------------------------------------------------------------------
BRACH MEDICAL SUPPLY
 09/06/90               125697  10/06/90      --------    50.05
                                    VENDOR LOST DISCOUNTS:  50.05


A-C MEDICAL SUPPLIES
 04/01/91                       04/11/91      --------     1.50
                                    VENDOR LOST DISCOUNTS:  1.50


JOHNSON & JOHNSON
 03/23/91                       03/28/91      --------   100.00
                                    VENDOR LOST DISCOUNTS:  100.00


HEALTHCARE, INC.
 03/31/91                       04/10/91      --------   600.00
                                    VENDOR LOST DISCOUNTS:  600.00

                               TOTAL LOST DISCOUNTS:  751.55
End (8/828)>
```

General Ledger

ACCOUNT ACTIVITY BY POST DATE

Query Description

Report Name:Account Activity by Post Date

Query Name:QJ_DEPTPL

Selection Criteria: None

Sort(s): None

Description:

This report lists General Ledger account activity according to the General Ledger posting date.

Sample Query

```
   Query Name: QJ_DEPTPL                         Routine:
       Printed: 05/13/91 at 10:44 AM
  Description: ACCOUNT ACTIVITY BY POST DATE
    Last edit: 04/11/91 at 4:03 PM by DBA
Last compile: 04/11/91 at 4:07 PM

SQL Text
========
-- This report enables you to access journal entry information
-- by post date.

SET RMARGIN = 132
READ :XEC CHAR(2) HEADING 'ENTITY CODE'
READ :XGL DATE HEADING 'POST DATE'
SELECT JRNL_DT HEADING 'POST DATE' ,
       FSCL_YR HEADING 'FY' ,
       FSCL_PER HEADING 'FP',
       GL_DPT HEADING 'DEPT NBR',
       SUBACCT HEADING 'SUBACCT NBR',
       JRNL_NBR HEADING 'JE NUMBER ' LEFT,
       SOURCE,
       DESCRIPTION    ,
       AMOUNT,
       DB_CR HEADING 'DB/CR'
FROM   J_SUMMARY_JRNL
WHERE  ENT = :XEC
       AND JRNL_DT = :XGL
       AND FSCL_YR=:XFY
       AND FSCL_PER=:XFP
ORDER BY JRNL_NBR, JRNL_DT
BREAK AT JRNL_NBR SKIP 2
FINAL  SKIP 2
HEADER
   WRITE
          'POSTED JOURNAL ENTRIES BY POST DATE' CENTER 130,
          TODAY CENTER 130
FOOTER
   WRITE 'PAGE:  '|PAGE_NUMBER CENTER 80
End>
```

Figure 6.2 Posted Journal Entries by Post Date

```
                            POSTED JOURNAL ENTRIES BY POST DATE
                                         05/06/91

POST DATE    FY  FP  DEPT NBR     SUBACCT NBR   JE NUMBER    SOURCE    DESCRIPTION                        AMOUNT   DB/CR
------------------------------------------------------------------------------------------------------------------------
03/25/91     91  06  0000001010  0000001000    4            AP        AP Daily Distribution            12920.00   D
03/25/91     91  06  0000001012  0000001000    4            AP        AP Daily Distribution             1700.00   D
03/25/91     91  06  0000001013  0000001000    4            AP        AP Daily Distribution              850.00   D
03/25/91     91  06  0000001080  0000001200    4            AP        AP Daily Distribution             3600.00   D
03/25/91     91  06  0000001083  0000001200    4            AP        AP Daily Distribution             1600.00   D
03/25/91     91  06  0000002010  0000002200    4            AP        AP Daily Distribution            22570.00   C
03/25/91     91  06  0000002010  0000002355    4            AP        AP Daily Distribution             1900.00   D


End (7/127)>
```

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Materials Management

ANTICIPATED TRANSFER REPORT

Query Description

Report Name: Anticipated Transfer Report

Query Name: QI_GMRATR

Selection Criteria:Entity Code

Sort(s):   Entity, Item Number, Item Description

Description:

This report contains all items that have a low Par Level at one location and possibly could be transferred from another location that is above PAR. This report is used in conjunction with other inventory level maintenance reporting (Anticipated PO Reports) to complete the tools necessary to manage inventory levels in all locations. An asterisk (*) by the PAR Level indicates the location is above PAR Level.

Sample Query

```
   Query Name: QI_GMRATR                           Routine:
      Printed: 05/13/91 at 9:47 AM
 Description: Anticipated Transfer Report


SQL Text

========

--This report contains all items that have a low PAR Level at one

--location and possibly could be transferred from another location

--that is above PAR.  This report is used in conjunction with other

--inventory level maintenance reporting (Anticipated PO Reports) to

--complete the tools necessary to manage inventory levels in all

--locations.  An asterisk (*) by the PAR Level indicates the

--location is above PAR Level.


SET RMARGIN = 132
READ :XENT CHAR(2) HEADING 'Enter Entity Code'
SELECT DISTINCT ITM_NBR HEADING 'Item Nbr', A.ITM_DESC CHANGED HEADING
'Description',  ENT CHANGED   HEADING 'Ent', A.LOC_MSTR_LNK@LOC_CD HEADING
'Loc',
A.LOC_MSTR_LNK@DESRD_PAR_LVL HEADING 'PAR|Level', CASE WHEN
A.LOC_MSTR_LNK@LOC_QOH > A.LOC_MSTR_LNK@DESRD_PAR_LVL THEN '*' ELSE ' ' END
HEADING ' ', A.LOC_MSTR_LNK@LOC_QOH HEADING 'QOH',  CASE WHEN
A.LOC_MSTR_LNK@LOC_QOH - A.LOC_MSTR_LNK@DESRD_PAR_LVL > 0 THEN
A.LOC_MSTR_LNK@LOC_QOH - A.LOC_MSTR_LNK@DESRD_PAR_LVL ELSE '0'
END HEADING 'Qty to|Transfer', A.ITM_MSTR_LNK@DSPNG_UNIT_CD HEADING
'Disp|Units',
A.LOC_MSTR_LNK@STOR_UNIT_CD HEADING 'Stor|Units',
A.LOC_MSTR_LNK@STR_UNT_CNV_FACT HEADING
'Store|Conv'
FROM I_LOC_ITM_NDX A
WHERE     A.ENT = :XENT
      AND A.ITM_MSTR_LNK@CUM_QTY_ON_HND > 0
      AND A.LOC_MSTR_LNK@DESRD_PAR_LVL > 0
      AND A.LOC_MSTR_LNK@ITM_NBR IN
                      (SELECT C1.ITM_NBR
                       FROM I_LOC_MSTR C1
                       WHERE C1.LOC_QOH - C1.DESRD_PAR_LVL > 0
                        AND C1.ITM_NBR IN
                                      (SELECT C2.ITM_NBR
                                       FROM I_LOC_MSTR C2
                                       GROUP BY C2.ITM_NBR
                                       HAVING COUNT (C2.LOC_CD) > 1))
```

```
        ORDER BY ENT, ITM_NBR, ITM_DESC
        HEADER  WRITE 'Anticipated Transfer Report'  center 132
                WRITE 'Printed on ' | TODAY | ' at ' | NOW center 132
        FOOTER  WRITE 'Confidential Information' center 132

        BREAK AT ENT
               PAGE
        FINAL
               SKIP 5
               WRITE 'Total Number of Items: ' | Count(*)

        End>
```

Figure 6.3 Anticipated Transfer Report

```
                                  Anticipated Transfer Report
          Printed on 04/29/91 at 1:30 PM


                                              PAR              Qty to   Disp   Stor    Store
 Item Nbr  Description                Ent  Loc Level      QOH  Transfer Units  Units   Conv
 -----------------------------------------------------------------------------------------------
 100150812  0.4% LIDOCAINE 5% D5W     GH   GS  100         48    48     BX     CS        5
                                      CR       3000 *    63324 60324    BX     CS       12
 100150010  A-ACID 0.25% 1000 ML IRR 6143  GH CS 2000      0     0      BX     BX        1
 100104975  ADAPTER, CONVERTATABLE SAFE LOCK GH CS 1000   28     0      EA     BX        2
                                      GH   GS  100 *     2000  1900     EA     BX        2
 100111336  AIRWAYS NASAL 6.0         GH   GS  50          25    0      EA     BX       12
                                      GH   CS  25 *      100    75      EA     BX       12


          Total Number of Items: 7

 End (7/3000)>
```

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ITEM ORDERING ANALYSIS REPORT

Query Description

> **Report Name:**   Item Ordering Analysis Report
>
> **Query Name:**   QI_GMRROQ
>
> **Selection Criteria:**   None
>
> **Sort(s):**   Entity, Vendor Number, Item Number, Item Description
>
> **Description:**
>
> This report assists in periodic review of items. ROP, ROQ, Lead Days, Desired Days, Safety Days, Quote Price, and Price Expiration are reported. The report is sorted by Vendor Number with the corresponding LIC displayed at the page break.

Sample Query

```
   Query Name: QI_GMRROQ                          Routine:
       Printed: 04/29/91 at 1:30 PM
  Description: Item Ordering Worksheet
    Last edit: 04/17/91 at 11:43 AM by DBA
Last compile: 04/17/91 at 11:52 AM

SQL Text
========
--This report assists in periodic review of items.  ROP, ROQ, Lead Days,
--Desired Days, Safety Days, Quote Price, and Price Expiration are
--reported.  The report is sorted by Vendor Number with the corresponding
--LIC displayed at the page break.

SET RMARGIN = 132

SELECT ITM_NBR CHANGED HEADING 'Item Nbr', A.ITM_DESC CHANGED HEADING
     'Description',  ENT CHANGED   HEADING 'Ent',
A.LOC_MSTR_LNK@LOC_CD   HEADING  'Loc',
A.LOC_MSTR_LNK@ACT_ROP HEADING 'Active|ROP',
A.LOC_MSTR_LNK@ACT_ROQ HEADING 'Active|ROQ',
A.LOC_MSTR_LNK@LEAD_DAYS HEADING 'Lead|Days',
A.LOC_MSTR_LNK@DESRD_DAYS_INV HEADING  'Desire|Days',
A.LOC_MSTR_LNK@SFTY_STK_DAYS HEADING 'Safety|Days',
D.VND_QUOTE_PRC HEADING 'Quote|Price', D.QTE_PRC_EFF_DT_ HEADING 'Price|Eff
Date'

FROM I_LOC_ITM_NDX A,
     I_VND_ITM_MSTR D,
     G_VENDOR_MASTER E

WHERE A.ENT = D.ENT
      AND A.ITM_NBR = D.ITM_NBR
      AND E.VENDOR_NBR = D.VNDR_NBR

ORDER BY ENT, VNDR_NBR, ITM_NBR, ITM_DESC

HEADER  WRITE 'Item Ordering Analysis Report'   center 132
        WRITE 'Printed on ' | Today | ' at ' | NOW center 132

FOOTER  WRITE 'Confidential Information' center 132

BREAK AT ENT
```

```
         PAGE

BREAK AT VNDR_NBR
        WRITE '' SKIP 1
        WRITE 'Vendor Number ' | VNDR_NBR COLUMN 5, VEN_NAME
        WRITE 'Vendor LIC ' | LIC_CD COLUMN 5
        WRITE '' SKIP 1

FINAL
        SKIP 5
        WRITE 'Total Number of Items: ' | Count(*)
End>
```

Figure 6.4 Item Ordering Analysis Report

```
                                    Item Ordering Analysis Report
          Printed on 04/29/91 at 1:30 PM


                                              Active   Active  Lead   Desire   Safety   Quote   Price
Item Nbr   Description                  Ent  Loc    ROP      ROQ   Days     Days     Days   Price   Eff Date
---------------------------------------------------------------------------------------------------------
100150812  0.4% LIDOCAINE 5% D5W        GH   GS     100      100    2        2        1      10.00   06/01/91
                                             CR     200      100    2        2        1      10.00   06/01/91
100150010  A-ACID 0.25% 1000 ML IRR 6143  GH  CS   2000     1000   3        3        2      20.95   07/01/91
100104975  ADAPTER, CONVERTATABLE SAFE LOCK GH CS  1000     500    3        3        2      20.95   07/01/91
                                             GH   GS  100     50     3        3        2      20.95   07/01/91
100111336  AIRWAYS NASAL 6.0            GH   GS     50       25     2        2        2      05.50   08/01/91
                                             GH   CS  25      20     2        2        2      05.50   08/01/91



          Total Number of Items: 7
End (7/3000)>
```

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Patient Accounting

ACCOUNTS RECEIVABLE BY ADMITTING PHYSICIAN

Query Description

Report Name: Accounts Receivable by Admitting Physician

Query Name: QFAADPHYS

Selection Criteria: Facility

Sort(s):   Admitting Physician

Description:

This is a report of outstanding account balances by admitting physician. Totals are provided for unbilled and billed accounts.

Notes:

This report is facility specific. It is printed on 132 column paper. It also contains print commands (that have been commented out) for printing the report in landscape format on a Kyocera F-1000A laser printer.

Sample Query

```
   Query Name: QFAADPHYS                          Routine:
        Printed: 05/10/91 at 3:22 PM
   Description: ACCOUNTS RECEIVABLE BY ADMITTING PHYSICIAN
      Last edit: 05/10/91 at 3:18 PM by DBA
Last compile: 05/10/91 at 3:21 PM

SQL Text
========
--The purpose of this report is to provide totals of the unbilled
--charges and billed charges by admitting physician.
--The lines associated with the Initial command and the Final Write
--command are used to print this report in landscape format on a
--laser printer.  Currently, the lines are commented out meaning that
--it will not print in the landscape format.  To use this feature
--simply remove the dashes before the lines.


SET     RMARGIN=132
READ    :XFAC CHARACTER(2) PROMPT 'FACILITY'


SELECT  FIN_LINK@ADM_DR HEADING '|PHYS CODE' COLUMN 1,
        FIN_LINK@ADM_DR_NAME HEADING 'ADMITTING PHYSICIAN NAME' COLUMN 11,
        SUM(UNBILLED_CHG_TOT) AS UNBILLED
           HEADING 'UNBILLED AMOUNT' COLUMN 50,
        SUM(TOT_BILLED_CHG_AMT) AS BILLED
           HEADING 'BILLED AMOUNT' COLUMN 70,
        UNBILLED+BILLED HEADING 'TOTAL'
                 COLUMN 90


FROM    FA_LOCATION


WHERE   FAC=:XFAC


GROUP BY FAC,
         FIN_LINK@ADM_DR


ORDER BY FAC,
         FIN_LINK@ADM_DR_NAME


--INITIAL
--  WRITE '!R! SPO L; SCPI 16.6; FONT 34; EXIT;'
```

```
HEADER
    WRITE  FAC_NAME CENTER 132,
            'ACCOUNTS RECEIVABLE BY ADMITTING PHYSICIAN' CENTER 132,
            'Printed On   '  | TODAY |   ' at '  |NOW CENTER 132


FOOTER
    WRITE  'Page:  '  |PAGE_NUMBER CENTER 132,
            'FOR INTERNAL USE ONLY' CENTER 132

FINAL SKIP 2
      WRITE 'GRAND TOTALS:  ',
        SUM(UNBILLED BY 0) AS TOTAL_UNBILLED COLUMN 47 RIGHT 18,
        SUM(BILLED BY 0) AS TOTAL_BILLED COLUMN 67 RIGHT 18,
        (TOTAL_UNBILLED+TOTAL_BILLED) COLUMN 87 RIGHT 18

--   WRITE '!R! RES; EXIT;'
End>
```

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Figure 6.5 Accounts Receivable by Admitting Physician

```
                              General Hospital A
                    ACCOUNTS RECEIVABLE BY ADMITTING PHYSICIAN
                         Printed On   05/10/91 at 3:23 PM

 PHYS CODE ADMITTING PHYSICIAN NAME          UNBILLED AMOUNT        BILLED AMOUNT              TOTAL
-------------------------------------------------------------------------------------------------------
         1 ADAMS,HAROLD R                        $156,074.15       $1,662,960.41         1819034.56
        31 ALDEN,JOHN F                              $752.01                                 752.01
         4 BAAB,GARY H                               $727.50          $10,619.85           11347.35
       432 BABB,GARY H                               $154.00             $851.00            1005.00
      3322 BODIE,U HOYT                                                $16,373.50           16373.50
         9 BOROS,STEPHEN J                            $438.40              $92.50             530.90
      7704 CARNES,JAMES E                               $5.75                                   5.75
        18 CATHEY,THOMAS G                           $3,744.81           $2,998.92            6743.73
        10 COLEMAN,MICHAEL G                        $1,548.12      $10,633,152.84        10634700.96
        33 DOOLEY,ROBERT T                          $2,616.40          $10,271.00           12887.40
        34 DUNNIGAN,ANN C                           $5,897.05         $503,475.00          509372.05
        13 FEE,JOHN G                                                  $71,925.00           71925.00
      4163 FELDMAN,JOSEPH ZIMBALIST                                        $96.00              96.00
         5 FREMSTAD,JOHN D                           -$15.25           $2,488.20            2472.95
      9876 GOLDEN,SAMUEL ADAMS                                                                  0.00
       654 GOLDEN,SAMUEL W                                         $5,971,945.15         5971945.15
        23 KEIEL,ROBERT T                         $288,576.00       $1,511,713.30         1800289.30
        45 LAGERGREN,WILLIAM R                        $84.00       $4,243,875.00         4243959.00
         2 LEES,JACK R                            $163,939.56      $59,451,350.90        59615290.46
        16 MARTIN,DWIGHT L                           $924.50
        44 SMITH,JANE R                             $1,470.21       $1,808,048.20         1809518.41
        24 SPIEGEL,RONALD F                             $0.30               $9.25               9.55
      5236 TRULUCK,RICHARD K                      $4,353,338.79     $38,333,618.93        42686957.72
        17 ZELLER,HECTOR C                                            $32,454.14           32454.14


 GRAND TOTALS:                                  $7,037,833.06     $174,692,106.20       181729939.26
 End (335/390)>
                                    Page:  1
                                FOR INTERNAL USE ONLY
```

UNBILLED REVENUE BY ACCOUNT LOCATION - SUMMARY

Query Description

Report Name: Unbilled Revenue by Account Location - Summary

Query Name: QF_URAS

Selection Criteria: None

Sort(s):   Facility

Account Location

Description:

This management report depicts unbilled revenue by account location. For each location (PA,AR,BD), the amount of unbilled revenue is reported. This report does not do any kind of restriction based on whether the charges are eligible for billing.

Notes:

The totals on this report are for all facilities. The report prints on 8 1/2" x 11" paper.

Sample Query

```
   Query Name: QF_URAS                           Routine:
       Printed: 04/30/91 at 11:56 AM
  Description: Unbilled Revenue by Account Location - Summary
    Last edit: 04/05/91 at 12:46 PM by DBA
Last compile: 04/05/91 at 12:49 PM

SQL Text
========
--The purpose of this query is to report a summary of the amount of
--unbilled revenue by account location for all facilities.  This data
--is obtained by reading the Unbilled Charges Account Location Index
--table and retrieving the Unbilled Charge Total from the Financial
--Account Master Table.


SELECT  FAC_NAME HEADING 'Facility' LEFT,
        ACCT_LOC_DESC HEADING 'Acct|Loc' LEFT 4,
        SUM(FIN_LINK@UNBILLED_CHG_TOT) HEADING 'Unbilled Revenue'


FROM FC_UBLLD_LOC_INDX


GROUP BY FAC,ACCT_LOC


HEADER  WRITE 'QF_URAS' COLUMN 70
        SKIP 1
        WRITE 'Printed on '|TODAY| ' at ' |NOW COLUMN 1
        WRITE 'Unbilled Revenue by Account Location - Summary'CENTER 80


End>
```

Figure 6.6 Unbilled Revenue by Account Location - Summary

```
                                                              QF_URAS
  Printed on 04/30/91 at 11:57 AM
              Unbilled Revenue by Account Location - Summary

                    Acct
Facility            Loc   Unbilled Revenue
--------------------------------------------------------------------------------
General Hospital A   PA          $131,727.00
General Hospital A   AR        $2,116,178.80
GENERAL HOSPITAL B   PA            $3,228.00
End (96/96)>
```

UNBILLED REVENUE BY ACCOUNT LOCATION - DETAIL

Query Description

Report Name: Unbilled Revenue by Account Location - Detail

Query Name: QF_URAD

Selection Criteria: None

Sort(s):   Facility

Account Location (PA,AR,BD)

Account Number

Description:

This report provides a detailed accounting of all unbilled revenue. It is sorted and subtotaled by account location (this is the detail to verify the Unbilled Revenue by Account Location - Summary report.) This report does not do any kind of restriction based on whether the charges are eligible for billing.

Notes:

The totals on this report are for all facilities. The report prints on 8 1/2" x 11" paper.

Sample Query

```
   Query Name: QF_URAD                              Routine:
       Printed: 04/30/91 at 11:57 AM
  Description: Unbilled Revenue by Account Location - Detail
     Last edit: 04/05/91 at 12:52 PM by DBA
Last compile: 04/05/91 at 12:58 PM
SQL Text
--The purpose of this query is to report the amount of unbilled charges
--by account location.  This data is obtained by reading the Unbilled
--Charges Account Location Index table and retrieving the Unbilled
--Charge Total from the Financial Account Master Table.  Subtotals are
--reported by account location with a grand total for all accounts for
--all facilities.


SET     DISPLAY_PAGE='YES'
SELECT  ACCT_LOC_DESC HEADING 'Acct|Loc' LEFT 4 CHANGED,
        PAT_ACCT_NBR HEADING 'Account #' LEFT 11,
        PAT_NAME HEADING 'Patient' LEFT 25,
        FIN_LINK@UNBILLED_CHG_TOT HEADING 'Unbilled Revenue'


FROM    FC_UBLLD_LOC_INDX
ORDER BY FAC,ACCT_LOC,PAT_ACCT_NBR
BREAK AT 1
PAGE
BREAK AFTER 2
SKIP 1
        WRITE 'Total # Accts: ' | COUNT(*,2)COLUMN 35
      WRITE 'Subtotal: ' |SUM(FIN_LINK@UNBILLED_CHG_TOT BY 2)COLUMN
                                                                    35
SKIP 1
FINAL
SKIP 2
        WRITE 'Grand Total All Facilities'COLUMN 35
        WRITE 'Grand Total # Accts: '|COUNT(*,0)COLUMN 35
    WRITE 'Grand Total: '|SUM(FIN_LINK@UNBILLED_CHG_TOT BY 0)COLUMN
35


HEADER  WRITE 'QF_URAD' COLUMN 70
        WRITE 'Printed on '|TODAY| ' at '|NOW COLUMN 1
        WRITE FAC_NAME CENTER 80
        WRITE 'Unbilled Revenue by Account Location - Detail'CENTER 80
End>
```

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Figure 6.7 Unbilled Revenue by Account Location - Detail

```
                                                               QF_URAD
  Printed on 04/30/91 at 11:58 AM
                              General Hospital A
                  Unbilled Revenue by Account Location - Detail

Acct
Loc   Account #    Patient                    Unbilled Revenue
-----------------------------------------------------------------------------
PA    A9111200001  BEAHM,CHRIS                       $863.20
      A9111400001  LOWERY,BABY 3 GIRL              $1,248.80
      A9111400002  AYERS,BABY GIRL                   $300.00
      A9111400003  FERRELL,TIM                   $125,200.00
      A9111400004  HARRELL,BEN                     $2,500.00
      A9111400006  KNOX,AUDREY                       $675.00
      A9111600003  CRAMER,ANN                        $940.00


                                  Total # Accts: 7
                                  Subtotal:     $131,727.00
AR    A9031600002  MEYERS,KAY                  $1,870,050.00
      A9031600004  CHARLES,STEVEN T              $237,728.81
      A9105300001  RAY,ANDREA                      $4,692.09
      A9106300003  SIMMONS,SARAH                     $425.00
      A9106400007  BROWN,RICHARD                     $150.00
      A9106600004  MABRY,JERRY                       $154.00
      A9106700001  CARROLL,ZELDA                     $224.40
      A9107000003  COOPER,PAT                      $2,754.60
                                  Total # Accts: 8
                                  Subtotal:   $2,116,178.80


PA    B9111200001  HALL,LESLIE                     $3,228.00

                                  Total # Accts: 1
                                  Subtotal:       $3,228.00


                                Grand Total All Facilities
                                Grand Total # Accts: 16
                                Grand Total:  $2,251,133.80
End (96/96)>
```

UNBILLED REVENUE FOR ADMISSION DATE RANGE

Query Description

Report Name: Unbilled Revenue for Admission Date Range

Query Name:QFA_URAD

Selection Criteria: Admission Date Range

Sort(s):   Facility

Patient Account Number

Description:

The purpose of this query is to report unbilled revenue for accounts based on the admission date range selected. The query reports account number and patient name, unbilled revenue, account balance, and last bill sequence. Accounts included in this query have had a previous cycle bill.

Notes:

This report prints on 8 1/2" x 11" paper and page breaks by facility.

Sample Query

```
   Query Name: QFA_URAD                        Routine:
       Printed: 04/30/91 at 1:26 PM
   Description: Unbilled Revenue Select by Admit Date Range
     Last edit: 04/22/91 at 11:19 AM by DBA
Last compile: 04/22/91 at 11:25 AM

SQL Text
========
--The purpose of this query is to list unbilled revenue for accounts
--based on the admission date range selected.  The query reports
--unbilled revenue, account balance, and the last bill sequence.  This
--query includes those accounts that have received a previous cycle
--bill.

READ    :XBEGDT DATE PROMPT 'Enter Beginning Admit Date',
        :XENDDT DATE PROMPT 'Enter Ending Admit Date'

SELECT  PAT_ACCT_NBR HEADING 'Account #' LEFT 11,
        PAT_NAME HEADING 'Patient' LEFT 23,
        UNBILLED_CHG_TOT HEADING 'Unbilled Revenue' RIGHT 15,
        ACCT_BAL HEADING 'Account|Balance' RIGHT 15,
        FIN_LINK@LST_BILL_SEQ_NBR HEADING 'BL|SQ'

FROM    FA_LOCATION

WHERE   ADM_DT>=:XBEGDT AND
        ADM_DT<=:XENDDT AND
        UNBILLED_CHG_TOT<>0 AND
        UNBILLED_CHG_TOT<>0.00 AND
        UNBILLED_CHG_TOT IS NOT NULL AND
        FIN_LINK@LST_BILL_SEQ_NBR>1

ORDER BY FAC,PAT_ACCT_NBR
BREAK AT 1
PAGE
HEADER
   WRITE FAC_NAME CENTER 80
   WRITE 'Unbilled Revenue for Admissions '|:XBEGDT|' - '|:XENDDT  CENTER 80
   WRITE 'Printed on ' | TODAY | ' at ' | NOW CENTER 80

End>
```

Figure 6.8 Unbilled Revenue for Admission Date Range

```
                              General Hospital A
                 Unbilled Revenue for Admissions 01/01/91 - 04/01/91
                          Printed on 04/30/91 at 1:28 PM


                                                        Account    BL
Account #      Patient               Unbilled Revenue    Balance   SQ
------------------------------------------------------------------------
A9100200002   HOLMES,HOLLY D                 $441.50     $9,291.00    3
A9101600003   MAINES,JENNIE                   -$4.44       $840.39    5
A9102100005   MATHER,JUANITA              $71,935.00   $647,335.00    5
A9102100007   TREE,LENORE                  $6,162.40    $23,283.40    3
A9102200001   DAVENPART,JENNIFER           $1,510.60    $22,624.70    2
A9103000002   DELLONE,ROBERT D             $3,544.40    $41,535.12    2
A9103500007   BAILEY,LEE                 $287,700.00 $5,466,605.00   34
A9103500008   BOUDENS,CLAY               $287,700.00 $6,041,705.00   38
A9103700001   BURNESS,BARBARA LUXEMBU    $287,700.00 $5,897,850.00   37
A9104400001   STARNES,CAROLE S           $575,400.00 $8,499,190.00   35
A9104400002   WILLIAMSON,TINA M          $287,700.00 $5,538,225.00   35
A9104500007   ADAMS,GENE               $2,016,588.00 $5,329,650.00    4
A9104600001   ZIGLER,ANDREA              $288,084.00 $5,257,533.00   33
A9105000003   HARPER,SCOTT HOWARD            $863.20    $14,910.20    6
A9105000010   HAYNES,OTTO                    $863.20    $14,954.34   31
A9105200003   DISHROON,DAVID L             $6,042.40 $1,807,373.60    2
A9105300006   ALLENBY,DOUGLAS            $287,700.00 $4,747,050.00   29
A9105800009   ALLEN,ANTHONY                $6,042.40    $13,327.30    2
A9106600004   MEYERS,JERRY                   $154.00        $24.00   43
A9106600005   LAGER,ANDREW               $287,700.00 $3,812,325.00   23
A9107100003   GAINES,SUNNY                 $2,880.00     $9,675.00    2
A9108500004   FASCIANO,JILL              $287,700.00 $2,445,450.00   16
A9108500005   FASCIANO,BABY 1 BOY            $384.00     $3,264.00   16


End (23/335)>
```

UNBILLED REVENUE OVER $10000 WITH ANALYSIS

Query Description

Report Name: Unbilled Revenue Over $10000 with Analysis

Query Name: QFURA

Selection Criteria: None

Sort(s): None

Description:

This report is a listing of all accounts with an outstanding balance over $10,000. A summary analysis line is provided that states what percent of the total unbilled revenue is represented.

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Sample Query

```
   Query Name: QFURA                              Routine:
        Printed: 05/16/91 at 3:25 PM
    Description: Unbilled Revenue over $10000
      Last edit: 05/03/91 at 9:21 AM by DBA
Last compile: 05/03/91 at 9:22 AM

SQL Text
========
--The purpose of this query is to provide a listing of accounts with
--unbilled revenue over $10,000.  The biller, patient name, and
--patient account number is also listed.


DECLARE :XTOT NUMERIC(10,2),
        :XPER NUMERIC(4,2)


SELECT NULL


FROM    FA_FIN_MASTER
ORDER BY UNBILLED_CHG_TOT DESC
INITIAL
SET     :XTOT = 0
HEADER
WRITE    'Unbilled Revenue over $10000 Listing by Account' CENTER 80


DETAIL
        IF UNBILLED_CHG_TOT> 10000
        SET :XTOT = :XTOT + UNBILLED_CHG_TOT


WRITE    UNBILLED_CHG_TOT HEADING 'Unbilled|Revenue',
        BLLR_CD HEADING 'Biller|Code',
        PAT_NAME HEADING 'Patient' LEFT 25,
        PAT_ACCT_NBR  HEADING 'Account #'
ENDIF
FINAL
SKIP 2
SET :XPER = (:XTOT/SUM(UNBILLED_CHG_TOT BY 0))*100
WRITE    'Total of the > 10000 ',:XTOT
WRITE    'This represents '| :XPER | ' percent of the total amount  = '|
         SUM(UNBILLED_CHG_TOT BY 0)
End>
```

Figure 6.9 Unbilled Revenue over $10000 with Analysis

```
                Unbilled Revenue over $10000 Listing by Account

        Unbilled  Biller
         Revenue  Code    Patient                       Account #
     ---------------------------------------------------------------------------
       $131,262.95 85      SMITH,JEAN A                  A9016300002
       $131,232.00 85      TAYLOR,JANE                   A9016400007
       $113,944.75 12      HOPPMANN,THERESA ELIZABET     A9030900001
       $106,547.50 82      HARDING,JOHN P                A9021800001
       $105,895.00 83      JEFFERSON,DORIAN A            A9019900001
        $83,735.00 28      GRAHAM,MARTHA M               A9021800002
        $81,225.00 12      HATCH,THOMAS M                A9021800003
        $81,225.00 12      LYNDGAARD,JOHN M              A9017300001
        $81,225.00 28      GREEN,SANDRA                  A9021800007
        $46,500.00 82      ERVIN,KELLEY                  A9017700001
        $46,173.75 85      SMITH,DOT                     A9017200004
        $29,369.00 82      BISHOP,LEE                    A9017600002

Total of the > 10000   1038334.95
This represents 96.39 percent of the total amount  =   $1,077,229.86
End (148/148)>
```

UNBILLED REVENUE BY BILLER - DETAIL

Query Description

      Report Name: Unbilled Revenue by Biller - Detail

      Query Name:QFA_URBD

      Selection Criteria: None

      Sort(s):   Facility

               Biller Code

      Description:

      This query reports the amount of unbilled charges (revenue) by biller code. Subtotals are reported by biller code with a grand total for all accounts for all facilities.

      Notes:

      This report prints on 8 1/2" x 11" paper.

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Sample Query

```
   Query Name: QFA_URBD                          Routine:
       Printed: 04/30/91 at 11:58 AM
   Description: Unbilled Revenue by Biller - Detail
     Last edit: 04/19/91 at 9:53 AM by DBA
Last compile: 04/19/91 at 9:40 AM

SQL Text
========
--The purpose of this query is to report the amount of unbilled
--charges (revenue) by biller code.  Subtotals are reported by biller
--code with a grand total for all accounts for all facilities.

SELECT FIN_LINK@BLLR_CD HEADING 'Biller|Code' LEFT CHANGED,
       PAT_ACCT_NBR heading 'Account #' left 11,
       PAT_NAME heading 'Patient' left 25,
       UNBILLED_CHG_TOT heading 'Unbilled|Revenue' right 15


FROM FA_LOCATION


WHERE   UNBILLED_CHG_TOT<>0 AND
        UNBILLED_CHG_TOT<>0.00 AND
        UNBILLED_CHG_TOT IS NOT NULL


ORDER BY FAC,FIN_LINK@BLLR_CD
BREAK AT 1
PAGE
BREAK AFTER 2
SKIP 1
        WRITE 'Total # Accts: ' | COUNT (*,2)COLUMN 35
        WRITE 'Subtotal: ' |SUM(UNBILLED_CHG_TOT BY 2)COLUMN 35
FINAL
SKIP 2
        WRITE 'Grand Total All Facilities'COLUMN 35
        WRITE 'Grand Total # Accts: '|COUNT(*0)COLUMN 35
        WRITE 'Grand Total: '|SUM(UNBILLED_CHG_TOT BY 0)COLUMN 35


HEADER  WRITE 'Printed on '|TODAY| ' at '|NOW COLUMN 1
        WRITE FAC_NAME CENTER 80
        WRITE 'Unbilled Revenue by Biller - Detail'CENTER 80
End>
```

Figure 6.10 Unbilled Revenue by Biller - Detail

```
 Printed on 04/30/91 at 12:01 PM
                         General Hospital A
                   Unbilled Revenue by Biller - Detail

Biller                                              Unbilled
Code    Account #    Patient                         Revenue
-----------------------------------------------------------------------------
1       A9034600002  LAGER,ANDREW                     -$15.25
        A9036000001  LAGER,ANDREW                     -$15.25
        A9107000003  WESTMAN,BRENT D                  $151.60


                              Total # Accts: 3
                              Subtotal:        $121.10
2       A9031600001  VELVETONE,TIFFANY                $349.50
        A9034100001  ROADS,MATTHEW WILLIAM         $23,040.00
        A9034500004  MEDLOCK,BETTY                  $1,601.25
        A9034700001  FOX,SUSAN                     $44,705.40
        A9034700002  MIM,TOMMY                     $72,597.00
        A9100200002  HERST,HOLLY D                    $441.50
        A9031600012  WESTMAN,BRENT DALLAS           $2,195.19
        A9100700003  WILLIAMSON,CARLTON               $432.15
        A9100900007  SPARROW,EDWARD G                 $320.40
        A9031700001  ZELWINS,ZIGGY                    $466.10
        A9102100007  TREE,LENORE                    $6,162.40
        A9102200001  DAVENPART,JOAN L               $1,510.60
        A9102800001  HOMER,PAULA VERGAMINI          $6,774.99
        A9103000001  HERST,JOHN                     $2,543.50
        A9103000002  DELLONG,ROBERT D               $3,544.40
        A9103100001  HESSMAN,STEVEN                   $301.60
        A9103100002  HOMER,DAVID P                  $2,460.92
        A9031700005  VELVETONE,BABY 2 GIRL            $672.00
        A9104200004  NORTON,PAULA                     $155.00
        A9104400001  STETINA,CAROLE S             $575,400.00
        A9104400002  WILLIAMSON,TETRA             $287,700.00
        A9104500002  MIM,TOM                      $215,775.00
        A9104500007  ALLEN,PAUL                 $2,016,588.00
                          •
        A9105800004  GRIER,LAURA                       -$0.60
        A9105800009  ADAMS,JILL                     $6,042.40
        A9106400004  LAURIE,MICHELE                 $1,510.60
        A9107300004  LOWERY,MICHELE                   $863.20
        A9107300005  MIM,TOM                    $3,312,966.00

                              Total # Accts: 99
                              Subtotal:     $16,544,886.66

                              Grand Total All Facilities
                              Grand Total # Accts: 102
                              Grand Total:  $16,545,038.26
End (102/335)>
```

UNBILLED REVENUE BY BILLER - SUMMARY

Query Description

Report Name: Unbilled Revenue by Biller - Summary

Query Name:QFA_URBS

Selection Criteria: None

Sort(s):   Facility

Biller Code

Description:

This query reports the total amount of unbilled charges (revenue) by biller code. A dollar amount, as well as a percent of the facility total unbilled revenue, is reported.

Notes:

This report prints on 8 1/2" x 11" paper.

Sample Query

```
   Query Name: QFA_URBS                          Routine:
       Printed: 04/30/91 at 12:02 PM
  Description: Unbilled Revenue by Biller - Summary
     Last edit: 04/24/91 at 3:14 PM by DBA
Last compile: 04/24/91 at 3:46 PM

SQL Text
========
--The purpose of this query is to report the amount of unbilled
--charges (revenue) by biller code.  For each biller the total amount
--of unbilled revenue is reported as a dollar amount as well as a
--percent of the total unbilled revenue.


SELECT  FIN_LINK@BLLR_CD HEADING 'Biller|Code' LEFT,
        FIN_LINK@BLLR_NAME HEADING 'Biller|Name' LEFT,
        SUM (UNBILLED_CHG_TOT) AS UNBIL HEADING 'Unbilled|Revenue'
        RIGHT 15,
        (UNBIL/SUM(UNBIL BY 1))*100.00 HEADING 'PCT'


FROM FA_LOCATION


WHERE   UNBILLED_CHG_TOT<>0 AND
        UNBILLED_CHG_TOT<>0.00 AND
        UNBILLED_CHG_TOT IS NOT NULL


GROUP BY FAC,FIN_LINK@BLLR_CD
ORDER BY FAC,FIN_LINK@BLLR_CD
BREAK AFTER 1
SKIP 1
        WRITE 'Facility Total: '|SUM(UNBIL BY 1)COLUMN 19
BREAK AT 1
PAGE
HEADER  WRITE 'Printed on '|TODAY| ' at '|NOW COLUMN 1
        WRITE FAC_NAME CENTER 80
        WRITE 'Unbilled Revenue by Biller - Summary' CENTER 80
FINAL
SKIP 2


        WRITE 'Grand Total: '|SUM(UNBIL BY 0) COLUMN 19
End>
```

Figure 6.11 Unbilled Revenue by Biller - Summary

```
 Printed on 04/30/91 at 12:02 PM
                         GENERAL HOSPITAL
                 Unbilled Revenue by Biller - Summary

Biller  Biller                      Unbilled
Code    Name                        Revenue              PCT
-------------------------------------------------------------------------------
12      Kim,Daryl K.                $274,994.75          25.69
28      Graham,Tom L.               $169,437.00          15.83
39      Kibel,D.                        $883.00           0.08
73      Davie,Alice                     $970.75           0.09
75      Ferst,Marvin                  $5,127.65           0.48
80      Kreshe,Kris                     -$54.40          -0.01
82      Marger,Larry                $185,171.85          17.30
83      Morris,Sam                  $112,533.60          10.51
85      Persons,Ben                 $321,578.26          30.04

              Facility Total:   $1,070,642.46


              Grand Total:   $1,070,642.46
End (46/148)>
```

UNPAID CLAIMS BY CARRIER

Query Description

       Report Name: Unpaid Claims by Carrier

       Query Name:QFBUCC

       Selection Criteria:Facility

       Sort(s):Carrier Code

       Description:

       This report provides a summary by insurance carrier/plan of outstanding accounts. It shows both the remaining amount due as well as paid amounts to date.

       Notes:

       The report query is facility specific. This report prints on 8 1/2" X 11" paper.

Sample Query

```
   Query Name: QFBUCC                              Routine:
       Printed: 05/10/91 at 4:25 PM
  Description: UNPAID CLAIMS BY CARRIER
    Last edit: 05/08/91 at 8:35 AM by DBA
Last compile: 05/08/91 at 8:36 AM


SQL Text
========
--This report provides a summary of outstanding accounts by insurance
--carrier/plan.  It shows the remaining amount due as well as paid
--amounts, to date.


READ    :XFAC CHARACTER(2) PROMPT 'FACILITY'


DECLARE :XCAREST NUMERIC(15,2), :XTCAREST NUMERIC(15,2),
        :XCARPMT NUMERIC(15,2), :XTCARPMT NUMERIC(15,2)



SELECT  NULL


FROM    AG_INSURANCE INS,
        FB_CLM_AUDIT CLAIM,
        FB_CLM_AUDIT_CARR CAR  ,
        FA_ACCT_INS  AI


WHERE   INS.INTN=CLAIM.INTN
        AND INS.AN=CLAIM.AN
        AND AI.INTN=INS.INTN
        AND AI.AN=INS.AN
        AND AI.COB_SEQ=INS.SEQ_NBR
        AND AI.ORIG_IK_NBR=CAR.INS_SEQ
        AND CAR.CLM_SEQ=CLAIM.CLM_SEQ
        AND CLAIM.AN=CAR.AN
        AND CLAIM.INTN=CAR.INTN
        AND CLM_PROD_STAT_CD='P'
        AND (CLM_DISP_CD <>'F')
        AND FAC=:XFAC



ORDER BY CARRIER_CODE ,PAT_ACCT_NBR, INS.SEQ_NBR,CLM_SEQ DESC
```

```
           INITIAL
            SET :XCAREST =0,:XTCAREST =0,  :XCARPMT=0, :XTCARPMT =0


           BREAK AT INS.SEQ_NBR
                   SET  :XCAREST=:XCAREST + CAR_EST_AMT_DUE,
                        :XCARPMT=:XCARPMT + CLM_TOT_PMT_AMT


           BREAK AFTER 1
                   SET :XTCAREST=:XTCAREST + :XCAREST,
                        :XTCARPMT=:XTCARPMT + :XCARPMT


           WRITE   CARRIER_CODE HEADING 'CODE',
                   CARRIER_NAME LEFT 25,
                   :XCAREST HEADING 'AMT DUE' COLUMN 35 RIGHT 15,
                   :XCARPMT HEADING 'PAID AMT' COLUMN 55 RIGHT 15


           SET :XCAREST=0,:XCARPMT=0

           FINAL  SKIP 2
                  WRITE 'GRAND TOTALS:  ',
                        :XTCAREST COLUMN 35 RIGHT 15,
                        :XTCARPMT COLUMN 55 RIGHT 15


           HEADER
                   WRITE FAC_NAME CENTER 80
                   WRITE 'UNPAID CLAIMS BY CARRIER' CENTER 80
                   WRITE 'Printed On ' | TODAY | ' at '  | NOW CENTER 80


           FOOTER

                   WRITE 'PAGE: ' | PAGE_NUMBER CENTER 80
                   WRITE 'FOR INTERNAL USE ONLY' CENTER 80
```

Figure 6.12 Unpaid Claims by Carrier

```
                            General Hospital A
                        UNPAID CLAIMS BY CARRIER
                        Printed On 05/10/91 at 4:27 PM

   CODE   CARRIER_NAME                     AMT DUE              PAID AMT
--------------------------------------------------------------------------
080001   MEDI-CAL OUTPATIENT              $9,716.34           $1,119.57
100001   PRUDENTIAL 100                   $1,000.00             $125.00
260001   MEDICAID PLAN 1                  $9,716.34           $1,119.57
383030   INSURANCE CARRIER PLAN NA     $702,285.20             $229.99
850001   MEDICARE PART A                $236,498.69          $16,978.66
850003   MEDICARE PROFESSIONAL COM     $149,761.21           $9,336.09
980001   CHAMPUS                       $550,828.76             $100.00



GRAND TOTALS:                        $1,703,949.44          $32,319.20
End (669/1704)>




                              PAGE: 1
                        FOR INTERNAL USE ONLY
```

OPEN CLAIMS BY BILLER

Query Description

> **Report Name:** Open Claims by Biller
>
> **Query Name:** QFBOCB
>
> **Selection Criteria:** Facility
>
> **Sort(s):**   Biller
>
>   Carrier/Plan
>
> **Description:**
>
> This report lists all open claims by biller and provides both claim amount and paid amounts to date. This report can be used as a management tool to review all billers' claims that have not been paid in full.
>
> **Notes:**
>
> The report query is facility specific. This report prints on 8 1/2" X 11" paper.

Sample Query

```
   Query Name: QFBOCB                           Routine:
        Printed: 05/10/91 at 4:00 PM
   Description: OPEN CLAIMS BY BILLER
     Last edit: 05/08/91 at 4:28 PM by DBA
Last compile: 05/10/91 at 3:41 PM


SQL Text
========
--The purpose of this report is to list the open claims, by patient
--account, that  a biller  is responsible for along with the estimated
--amount  due  from  the insurance.  Payments made against the claim are
--displayed in the Paid Amt column.
--The estimated amount due for the carrier included in the total carrier
-- amount and total biller amount is from the most recent claim
--because this is what displays in the application. The payment amount
--is from each individual claim.

READ    :XFAC CHARACTER(2) PROMPT 'FACILITY'
DECLARE :XCAREST NUMERIC(15,2), :XCARPMT NUMERIC(15,2)  -- CARRIER
        ,:XTCAREST NUMERIC(15,2), :XTCARPMT NUMERIC(15,2) -- TOTALS
        ,:XBCAREST NUMERIC(15,2),:XBCARPMT NUMERIC(15,2) -- BILLER
SET SELECT_LIMIT = 500
SELECT  LST_EDIT_BLLR_CD CHANGED HEADING 'BILLER CODE',
        LST_EDIT_BLLR_NAME CHANGED HEADING 'BILLER NAME',
        CARRIER_CODE CHANGED HEADING 'CARRIER CODE' COLUMN 1,
        CARRIER_NAME CHANGED HEADING 'CARRIER NAME'COLUMN 15,
        MED_LINK@PAT_ACCT_NBR CHANGED COLUMN 1 HEADING 'ACCT NBR',
        SEQ_NBR HEADING 'INS',  CLAIM.CTR HEADING 'CTR' LEFT 3,
        CLM_SEQ CHANGED HEADING 'CLM',
        SUBSTRING(CLM_REL_DT_TM,1,8) HEADING 'DATE' LEFT 8,
        (CAR_EST_AMT_DUE) AS DUE HEADING 'AMT DUE',
        (CLM_TOT_PMT_AMT) AS PAY HEADING 'PAID AMT' DEFAULT '-----'


FROM    FB_CLM_AUDIT CLAIM, AG_INSURANCE INS,
        FB_CLM_AUDIT_CARR CAR, FA_ACCT_INS AI


WHERE   INS.INTN = CLAIM.INTN AND
        INS.AN   = CLAIM.AN AND
        INS.SEQ_NBR = AI.COB_SEQ AND
        AI.ORIG_IK_NBR= CAR.INS_SEQ AND
```

```
          CLAIM.CLM_SEQ =CAR.CLM_SEQ AND
          INS.AN   = CAR.AN AND
          INS.INTN = CAR.INTN AND
          AI.INTN=INS.INTN AND
          AI.AN=INS.AN      AND
          DUE > 0 AND CLM_PROD_STAT_CD = 'P' AND
          CLM_DISP_CD <> 'F' AND
          FAC=:XFAC
          AND LST_EDIT_BLLR_CD=5
and carrier_code in (444003,500100,500200)
ORDER BY LST_EDIT_BLLR_CD, CARRIER_CODE, MED_LINK@PAT_ACCT_NBR
,INS.SEQ_NBR, CLM_SEQ  DESC


INITIAL
SET :XCAREST=0, :XCARPMT=0,:XTCAREST=0, :XTCARPMT =0
,:XBCAREST=0,:XBCARPMT =0


BREAK AT LST_EDIT_BLLR_CD
WRITE LST_EDIT_BLLR_CD  HEADING 'BILLER CODE',
        LST_EDIT_BLLR_NAME   HEADING 'BILLER NAME'


BREAK AT CARRIER_CODE
WRITE         CARRIER_CODE  HEADING 'CARRIER CODE' COLUMN 1,
        CARRIER_NAME   HEADING 'CARRIER NAME ' COLUMN 15
BREAK AT MED_LINK@PAT_ACCT_NBR
WRITE         MED_LINK@PAT_ACCT_NBR   COLUMN 1 HEADING 'ACCT NBR'


BREAK AT CLM_SEQ
WRITE   SEQ_NBR HEADING 'INS' COLUMN 18,
        CLM_SEQ  HEADING 'CLM',
        SUBSTRING(CLM_REL_DT_TM,1,8) HEADING 'DATE' LEFT 8,
        (CAR_EST_AMT_DUE)  HEADING 'AMT DUE',
        (CLM_TOT_PMT_AMT) HEADING 'PAID AMT' DEFAULT '-----'
SET :XCARPMT=:XCARPMT+CLM_TOT_PMT_AMT


BREAK AT INS.SEQ_NBR
SET :XCAREST=:XCAREST + CAR_EST_AMT_DUE


BREAK AFTER LST_EDIT_BLLR_CD SKIP
        WRITE 'BILLER TOTAL:  ' |:XBCAREST COLUMN 15, :XBCARPMT
SET :XTCAREST=:XTCAREST+:XBCAREST
,:XTCARPMT=:XTCARPMT+:XBCARPMT
```

```
        SET :XBCAREST=0,:XBCARPMT=0  -- RESET FOR NEXT BILLER


BREAK AFTER CARRIER_CODE SKIP
        WRITE 'CARRIER TOTAL: ' | :XCAREST COLUMN 15, :XCARPMT
SET:XBCAREST=:XBCAREST+:XCAREST
, :XBCARPMT=:XBCARPMT+:XCARPMT
SET:XCAREST=0,:XCARPMT = 0  -- RESET FOR NEXT CARRIER


FINAL SKIP 2
        WRITE 'GRAND TOTALS: ' |:XTCAREST COLUMN 15, :XTCARPMT


HEADER   WRITE FAC_NAME CENTER 80
          WRITE 'OPEN CLAIMS BY BILLER' CENTER 80
          WRITE 'Printed On '   | TODAY |  ' at '  | NOW CENTER 80


FOOTER   WRITE 'FOR INTERNAL USE ONLY' CENTER 80
        WRITE 'Page: ' | PAGE_NUMBER CENTER 80
DETAIL



>END
```

Figure 6.13 Open Claims by Biller

```
                              General Hospital A
                            OPEN CLAIMS BY BILLER
                         Printed On 05/10/91 at 4:03 PM

 BILLER CODE  BILLER NAME
  CARRIER CODE  CARRIER NAME
  ACCT NBR       COB  DATE                   AMT DUE          PAID AMT
--------------------------------------------------------------------------------
 1            MCCOY,DICK
      030001  PLAN 030001
 A9031600008     4  03/27/91                $1,000.00          $125.00

             CARRIER TOTAL:     $1,000.00          $125.00
      040001  DMF TEST PLAN 1
 A9103700004     1  04/03/91                 $100.00           -----

             CARRIER TOTAL:      $100.00
      080001  MEDI-CAL OUTPATIENT
 A9108000002     3  03/28/91                $1,119.57        $1,119.57
                    03/28/91                $1,119.57          -----
                    03/28/91                $1,119.57          -----
                    03/28/91                $1,119.57          -----
                    03/28/91                $1,119.57          -----
                    03/28/91                $1,119.57          -----
                    03/28/91                $1,119.57          -----
                    03/28/91                $1,119.57          -----
                    03/28/91                 $379.89           -----
                    03/28/91                 $379.89           -----

             CARRIER TOTAL:     $9,716.34        $1,119.57
      100001  PRUDENTIAL 100
 A9031600008     3  03/27/91                $1,000.00          $125.00

             CARRIER TOTAL:     $1,000.00          $125.00
      260001  MEDICAID PLAN 1
 A9108000002     1  04/02/91                $1,119.57        $1,119.57
                    04/02/91                $1,119.57          -----
                    04/02/91                $1,119.57          -----
                    04/02/91                $1,119.57          -----
                    04/02/91                $1,119.57          -----
                    04/02/91                $1,119.57          -----
                    04/02/91                $1,119.57          -----
                    04/02/91                $1,119.57          -----
                    04/02/91                 $379.89           -----
                    04/02/91                 $379.89           -----

             CARRIER TOTAL:     $9,716.34        $1,119.57

             BILLER TOTAL:     $21,532.68       $2,489.14

             GRAND TOTALS:     $21,532.68       $2,489.14
 End (227/1691)>




                         FOR INTERNAL USE ONLY
                              Page: 2
```

UNBILLED REVENUE WITH DISCHARGE DATE SELECT

Query Description

Report Name: Unbilled Revenue with Discharge Date Select

Query Name: QFURD

Selection Criteria: Beginning and Ending Discharge Dates

Sort(s):   Financial Class

              Discharge Date

Description:

This report provides a listing of revenue that has not been billed. The user is requested to enter a discharge date range for account selection. This query includes financial class, discharge date, patient name and account number, unbilled charge count and amount, and patient type.

Notes:

This report prints on 8 1/2" x 11" paper.

Sample Query

```
   Query Name: QFURD                              Routine:
       Printed: 04/30/91 at 12:04 PM
   Description: Unbilled Revenue by Discharge Date Range
     Last edit: 04/25/91 at 4:47 PM by DBA
Last compile: 04/25/91 at 4:52 PM


SQL Text
========
--The purpose of this query is to report unbilled revenue based on the
--discharge date range selected.  The query reports financial class,
--discharge date, patient name and account number, unbilled revenue
--amount, and patient type.  Subtotals are provided by financial class
--in addition to a facility total.


READ    :XBEGDT DATE PROMPT 'Enter Beginning Discharge Date'
READ    :XENDDT DATE PROMPT 'Enter Ending Discharge Date'


SELECT  FIN_LINK@FIN_CLASS HEADING 'Fin|Cl' LEFT 3 CHANGED,
        DSCHRG_DT HEADING 'Dsch|Date' LEFT 8,
        PAT_NAME HEADING 'Patient' LEFT 20,
        PAT_ACCT_NBR HEADING 'Account #' LEFT 11,
        FIN_LINK@UNBILLED_CHG_CNT HEADING 'Unbl|Chg|Cnt' RIGHT 4,
        FIN_LINK@UNBILLED_CHG_TOT HEADING 'Unbilled|Revenue' RIGHT 15,
        FIN_LINK@PAT_TYPE HEADING 'Pt|Typ' LEFT 3


FROM    AG_DSCHRG_DT_IDX


WHERE   DSCHRG_DT>=:XBEGDT AND
        DSCHRG_DT<=:XENDDT AND
        FIN_LINK@UNBILLED_CHG_TOT<>0 AND
        FIN_LINK@UNBILLED_CHG_TOT<>0.00 AND
        FIN_LINK@UNBILLED_CHG_TOT IS NOT NULL


ORDER BY FAC,1,2


BREAK AT 1
PAGE


BREAK AFTER 1
SKIP 1
```

```
WRITE   'Facility Total # Accounts: '|COUNT(*,1) COLUMN 6,
        'Facility Total Unbilled Revenue: '|SUM(FIN_LINK@UNBILLED_CHG_TOT BY
1)COLUMN 6
BREAK AT 2
SKIP 1
BREAK AFTER 2
SKIP 1
WRITE   'Total # Accounts: '|COUNT(*,2) COLUMN 32,
         'Total Unbilled Revenue: '|SUM(FIN_LINK@UNBILLED_CHG_TOT BY 2)
          COLUMN 32


HEADER
  WRITE 'Facility '|FAC| CENTER 80
  WRITE 'Unbilled Revenue for Discharges '|:XBEGDT |' - '|:XENDDT CENTER 80
  WRITE 'Printed on '|TODAY|' at '|NOW CENTER 80


End
```

Figure 6.14 Unbilled Revenue with Discharge Date Select

```
                             Facility A
             Unbilled Revenue for Discharges 01/01/91 - 04/22/91
                      Printed on 04/30/91 at 12:05 PM

                                            Unbl
Fin  Dsch                                   Chg         Unbilled  Pt
Cl   Date      Patient            Account #  Cnt        Revenue   Typ
----------------------------------------------------------------------
 
S    02/25/91  MATHERWELL,BEN     A9105600002   8      $1,000.75  O/P
     03/14/91  CURRY,JANE P       A9100900001   3        $142.00  I/P
 
                              Total # Accounts: 2
                              Total Unbilled Revenue:    $1,142.75
 
T    01/03/91  MELLISE,O P        A9100300001   14        $45.75  O/P
 
                              Total # Accounts: 1
                              Total Unbilled Revenue:       $45.75
 
       Facility Total # Accounts: 3
       Facility Total Unbilled Revenue:      $1,188.50
End (3/29)>
```

UNBILLED REVENUE WITH DISCHARGE DATE SELECT

DAILY DRG EXCEPTIONS

Query Description

> **Report Name:** Daily DRG Exceptions
>
> **Query Name:** QFT_DRGE
>
> **Selection Criteria:** None
>
> **Sort(s):**   None
>
> **Description:**
>
> This report lists accounts that had payments posted for the day where the paid DRG differs from the billed DRG. Daily totals are provided. This report prints on 8-1/2" x 11" paper.
>
> **Notes:**
>
> None.

Sample Query

```
    Query Name: QFT_DRGE                          Routine:
        Printed: 04/30/91 at 11:56 AM
    Description: DAILY DRG EXCEPTIONS
      Last edit: 04/26/91 at 10:54 AM by DBA
Last compile: 04/26/91 at 11:00 AM

SQL Text
========
--This report lists accounts which had payments posted during the
--the day where the paid DRG does not equal the final DRG.  It only
--reads cash batches which were approved and posted during the day.

SELECT  DRG_FINAL_NBR HEADING 'Final|DRG',
        DRG_PD HEADING 'Paid|DRG',
        PAT_ACCT_NBR HEADING  'Account|Number',
        PAT_NAME HEADING 'Patient|Name',
        FIN_LINK@FNL_BILL_DT HEADING 'Final|Bill'


FROM    FT_CASH_POST_DTL F,
        CE_ABST_DRG      D


WHERE   F.BATCH_LINK@BATCH_STAT='P'                AND
        F.DRG_PD <> D.DRG_FINAL_NBR               AND
        F.INTN = D.INTN AND F.AN = D.AN


ORDER BY  FAC,PAT_ACCT_NBR


BREAK AT  FAC
          PAGE


HEADER


WRITE   'QFT_DRGE' COLUMN 70
WRITE   'Printed on ' |TODAY| ' at ' |NOW COLUMN 1
WRITE   FAC_NAME CENTER 80
WRITE   'DAILY DRG EXCEPTIONS' CENTER 80
WRITE   'PAGE:  ' | PAGE_NUMBER CENTER 80


End>
```

Figure 6.15 Daily DRG Exceptions

```
                                                                QFT_DRGE
  Printed on 04/26/91 at 11:02 AM
                            General Hospital A
                         DAILY DRG EXCEPTIONS
                              PAGE:  1

Final  Paid  Account       Patient                   Final
DRG    DRG   Number        Name                      Bill
-------------------------------------------------------------------------
189    145   A9031600005   SMITH,ROBERT              11/12/90
295          A9031600008   JENKINS,JOE               11/12/90
014    065   A9106000001   SMITH,ROBERT              03/01/91
445    449   B9109100001   ROBERTS,NANCY             04/01/91

End (123/152)>
```

MONTHLY CONTRACT REVENUE BY PATIENT

Query Description

Report Name: Monthly Contract Revenue by Patient

Query Name: QF_MCRP

Selection Criteria: Date Range

Sort(s):   Facility

Contract Code

Patient

Date

Description:

This report provides a monthly list of charges entered for contract patients. Totals are provided for each contract patient account. The user is requested to enter a beginning and ending date for selection. Charges that are not patient specific are excluded.

Notes:

This report is printed on 132 column paper. It also contains print commands (that have been commented out) for printing the report in landscape format on a Kyocera F-1000A laser printer.

Sample Query

```
   Query Name: QF_MCRP                          Routine:
       Printed: 05/15/91 at 8:49 AM
  Description: Monthly Contract Charges by Patient
     Last edit: 04/30/91 at 8:42 AM by DBA
Last compile: 04/30/91 at 8:44 AM

SQL Text
========
--This report provides a listing of contract revenue by patient.  The
--requester enters a beginning and ending date range of charges to
--select.  Charges that have been entered directly against the
--contract account are not included in this report.
--The lines which have been commented out are for printing
--the report in landscape format on a laser printer.  To use
--this option, simply remove the '--' preceding the lines within
--the query.

READ    :XB DATE PROMPT 'Enter the beginning date of last month',
        :XE DATE PROMPT 'Enter the ending date of last month'

SET RMARGIN = 132
SET BMARGIN = 14

SELECT  NULL
FROM    FD_SERV_DT_INDX,FD_CONTR_CHG

WHERE
        FD_SERV_DT_INDX.SERV_DT BETWEEN :XB AND :XE     AND
        FD_SERV_DT_INDX.SEQ_NBR=FD_CONTR_CHG.SEQ_NBR    AND
        FD_SERV_DT_INDX.CONTR_CD=FD_CONTR_CHG.CONTR_CD

ORDER BY  FAC,CONTR_CD,PAT_NAME,ORD_PHYS,SERV_DT
-- INITIAL
--        WRITE '!R! SPO L; SCPI 16.6; FONT 34; EXIT;'
DETAIL
        SET :XN1=PAT_NAME
        SET :XN=PIECE(:XN1,';',1)|' '|PIECE(:XN1,';',2)
        SET :XS1=SIM_CD_DESC
        SET :XS=PIECE(:XS1,';',1)|' '|PIECE(:XS1,';',2)
```

```
WRITE
        CONTR_CD HEADING 'Contract' CHANGED,
        :XN HEADING 'Pat Name' CHANGED,
        ORD_PHYS HEADING 'Ordering Phys' CHANGED,
        :XS HEADING 'Item Code and Description',
        CHG_QTY HEADING 'Qty' COLUMN 88,
        CHG_AMT HEADING 'Amt' COLUMN 98,
        SERV_DT HEADING 'Service Date' COLUMN 116


HEADER
     WRITE    'QF_MCRP' COLUMN 122
     WRITE    'Printed on ' |TODAY| ' at ' |NOW COLUMN 1
     WRITE    FAC_NAME CENTER 132
    WRITE    'CONTRACT CHARGES BY PATIENT '|:XB |' TO ' | :XE CENTER
132


BREAK AFTER 3
WRITE    '---          -----------' COLUMN 90
WRITE    'Totals for Patient' COLUMN 27,
        SUM(CHG_QTY BY 3)    COLUMN 88,
        SUM(CHG_AMT BY 3)    COLUMN 98,
        '' SKIP 1


BREAK AFTER 2
IF COUNT(CHG_QTY BY 2)<>1
WRITE    'Totals for Contract' COLUMN 37,
        SUM(CHG_QTY BY 2) COLUMN 88,
        SUM(CHG_AMT BY 2) COLUMN 98
ENDIF
WRITE ''


BREAK AFTER 1
WRITE ''
WRITE    'Facility Totals' COLUMN 47,
        SUM(CHG_QTY BY 1) COLUMN 88,
        SUM(CHG_AMT BY 1) COLUMN 98
WRITE ''


BREAK AT 1
PAGE


FINAL
```

```
          WRITE '' SKIP 2
          WRITE   'Report Totals'   COLUMN 57,
            SUM(CHG_QTY BY 0) COLUMN 88,
            SUM(CHG_AMT BY 0) COLUMN 98
          WRITE ''
          WRITE 'End of Report'  CENTER 132 SKIP 1
--        WRITE '!R! RES; EXIT;'


     End>
```

Figure 6.16 Monthly Contract Revenue by Patient

```
                              QF_MCRP
    Printed on 05/15/91 at 8:50 AM
                                            General Hospital A
                                 CONTRACT CHARGES BY PATIENT 10/01/90 TO 05/14/91

Contract  Pat Name            Ordering Phys      Item Code and Description        Qty              Amt  Service Date
--------------------------------------------------------------------------------------------------------------------
111                           15                 6460 D XYLOSE BLOOD               1          $123.45  04/10/91
                                                 7210 DESIPRAMINE                  1            $1.00  04/10/91
                                                                                  ---      -----------
                              Totals for Patient                                   2          $124.45

                                        Totals for Contract                        2          $124.45

200                           999                7316 CHEM 24 (CBC)                1            $5.00  12/02/90
                                                 7316 CHEM 24 (CBC)                1            $5.00  12/02/90
                                                 5005 COMPLETE BLOOD COUNT *       1            $3.50  12/02/90
                                                 5005 COMPLETE BLOOD COUNT *       1            $3.50  12/02/90
                                                 7316 CHEM 24 (CBC)                1            $5.00  12/13/90
                                                 7316 CHEM 24 (CBC)                1            $5.00  12/13/90
                                                 5005 COMPLETE BLOOD COUNT *       1            $3.50  12/13/90
                                                 5005 COMPLETE BLOOD COUNT *       1            $3.50  12/13/90
                                                                                  ---      -----------
                              Totals for Patient                                   8           $34.00

                                        Totals for Contract                        8           $34.00

21                            CONCORD PULMONARY  2055 DATA LINES / MONTH           1           $31.10  12/28/90
                                                 2055 DATA LINES / MONTH           1           $31.10  12/28/90
                                                 2001 TELEPHONE EXTENSION, ONE     1           $31.10  12/28/90


                                                                                  ---      -----------
                              Totals for Patient                                   6          $326.30

                                        Totals for Contract                        6          $326.30

                                        Facility Totals                          190        $1,721.04

                                           Report Totals                         1645      $44,670.94
```

MONTHLY CONTRACT REVENUE BY DOCTOR

Query Description

Report Name: Monthly Contract Revenue by Doctor

Query Name: QF_MCRDR

Selection Criteria: Date Range

Sort(s):   Facility

Contract Code

Ordering Physician

Date

Description:

This report provides a monthly list of charges entered for contract accounts. Totals are provided for each ordering physician. The user is requested to enter a beginning and ending date for selection.

Notes:

This report is printed on 132 column paper. It also contains print commands (that have been commented out) for printing the report in landscape format on a Kyocera F-1000A laser printer.

Sample Query

```
   Query Name: QF_MCRDR                          Routine:
       Printed: 05/20/91 at 11:47 AM
   Description: Monthly Contract Revenue by Doctor
     Last edit: 05/03/91 at 5:16 PM by DBA
Last compile: 05/10/91 at 2:58 PM
SQL Text
========
--This report provides a listing of contract revenue for a specified
--date range.  The charges listed are sorted by ordering physician and
--contract code.
--The lines which have been commented out are for printing this
--report in landscape format on a laser printer.  To use this
--option, simply remove the -- preceding the lines within the query.


READ    :XB DATE PROMPT 'Enter the beginning date of last month',
        :XE DATE PROMPT 'Enter the ending date of last month'


SET RMARGIN = 132
--SET BMARGIN = 14
SELECT  NULL
FROM    FD_SERV_DT_INDX,FD_CONTR_CHG
WHERE
        (FD_SERV_DT_INDX.SERV_DT BETWEEN :XB  AND :XE) AND
         FD_SERV_DT_INDX.SEQ_NBR=FD_CONTR_CHG.SEQ_NBR    AND
         FD_SERV_DT_INDX.CONTR_CD=FD_CONTR_CHG.CONTR_CD
ORDER BY FAC,CONTR_CD,ORD_PHYS,SERV_DT
--INITIAL
--       WRITE '!R! SPO L; SCPI 16.6; FONT 34; EXIT;'


DETAIL
        SET :XN1=PAT_NAME
        SET :XS1=SIM_CD_DESC
        SET :XS=PIECE(:XS1,';',1)|' '|PIECE(:XS1,';',2)
WRITE
        CONTR_CD HEADING 'Contract' CHANGED,
        ORD_PHYS HEADING  'Ordering Phys' CHANGED,
        :XS HEADING 'Item Code and Description',
        CHG_QTY HEADING 'Qty' COLUMN 88,
        CHG_AMT HEADING 'Amt' COLUMN 98,
        SERV_DT HEADING 'Service Date' COLUMN 116
```

```
HEADER
  WRITE    'QF_MCRDR' COLUMN 122
  WRITE    'Printed on ' |TODAY| ' at '|NOW COLUMN 1
  WRITE    FAC_NAME CENTER 132
  WRITE    'MONTHLY CONTRACT REVENUE BY DOCTOR ' |:XB | ' TO ' | :XE
           CENTER 132
BREAK AFTER 3
WRITE    '---            ----------     '  COLUMN 90
WRITE    'Totals  For Physician' COLUMN 27,
         SUM(CHG_QTY BY 3) COLUMN 88,
         SUM(CHG_AMT BY 3) COLUMN 98,
         '' SKIP 1

BREAK AFTER 2
IF COUNT(CHG_QTY BY 2)<>1
WRITE    'Totals For Contract' COLUMN 37,
         SUM(CHG_QTY BY 2) COLUMN 88,
         SUM(CHG_AMT BY 2) COLUMN 98
ENDIF
WRITE    ''

BREAK AFTER 1
WRITE    ''
WRITE    'Facility Totals' COLUMN 47,
         SUM(CHG_QTY BY 1) COLUMN 88,
         SUM(CHG_AMT BY 1) COLUMN 98
WRITE ''

BREAK AT 1
PAGE

FINAL
  WRITE    '' SKIP 2
  WRITE    'Report Totals' COLUMN 57,
           SUM(CHG_QTY BY 0) COLUMN 88,
           SUM(CHG_AMT BY 0) COLUMN 98
  WRITE ''
  WRITE 'End of Report'  CENTER 132 SKIP 1
-- WRITE '!R! RES; EXIT;'
End>
```

Figure 6.17 Monthly Contract Revenue by Doctor

```
QF_MCRDR
 Printed on 05/15/91 at 8:49 AM
                                                        General Hospital A
                                         MONTHLY CONTRACT REVENUE BY DOCTOR 10/01/90 TO 05/14/91

Contract  Ordering Phys     Item Code and Description                             Qty            Amt  Service Date
---------------------------------------------------------------------------------------------------------------------
111       15                6460 D XYLOSE BLOOD                                     1        $123.45  04/10/91
                            7210 DESIPRAMINE                                        1          $1.00  04/10/91
                                                                                  ---     ----------
                            Totals  For Physician                                   2        $124.45

                                    Totals For Contract                             2        $124.45

200       999               7316 CHEM 24 (CBC)                                      1          $5.00  12/02/90
                            7316 CHEM 24 (CBC)                                      1          $5.00  12/02/90
                            5005 COMPLETE BLOOD COUNT *                             1          $3.50  12/02/90
                            5005 COMPLETE BLOOD COUNT *                             1          $3.50  12/02/90
                            7316 CHEM 24 (CBC)                                      1          $5.00  12/13/90
                            7316 CHEM 24 (CBC)                                      1          $5.00  12/13/90
                            5005 COMPLETE BLOOD COUNT *                             1          $3.50  12/13/90
                            5005 COMPLETE BLOOD COUNT *                             1          $3.50  12/13/90
                                                                                  ---     ----------
                            Totals  For Physician                                   8         $34.00

                                    Totals For Contract                             8         $34.00

21        CONCORD PULMONARY  2055 DATA LINES / MONTH                                1         $31.10  12/28/90
                            2055 DATA LINES / MONTH                                 1         $31.10  12/28/90
                            2001 TELEPHONE EXTENSION, ONE                           1         $31.10  12/28/90


                                                                                  ---     ----------
                            Totals  For Physician                                   6        $326.30

                                    Totals For Contract                             6        $326.30
                                                                                  ---     ----------
                                    Facility Totals                               190      $1,721.04

                                    Report Totals                                1645     $44,670.94
```

FA MASTER VIEW

Query Description

Report Name: FA Master View

Query Name: QFV_FIN_AR_MASTER

Selection Criteria: None

Sort(s): None

Description:

A *view* is not actually a report, per se. It is a user-defined table, based on selected columns from another set of tables. The FA Master View is a subset of the Financial Account Master Table and allows the user to define their reports from a smaller, more specific set of elements. The view created by this query is for account location AR and contains *columns* for the patient name, patient account number, final bill date, and account balance.

Sample Query

```
    Query Name: QFV_FIN_AR_MASTER                    Routine:
       Printed: 06/28/91 at 11:04 AM
   Description: Create View of AR Accounts
     Last edit: 06/21/91 at 3:08 PM by DBA


SQL Text
========
--This query creates a view from the Financial Account Master and
--Location tables for account location 2 (AR Accounts).  The Drop
--View command can be commented out as it is not needed until this
--query has been executed on your system.


DROP VIEW FIN_AR_MASTER


CREATE VIEW FIN_AR_MASTER (PAT_NAME,PAT_ACCT_NBR,FINAL_BILL,ACCT_BAL)
AS      SELECT  PAT_NAME,
                PAT_ACCT_NBR,
                FIN_LINK@FNL_BILL_DT,
                ACCT_BAL
        FROM    FA_LOCATION
        WHERE   ACCT_LOC=2
End>
```

REIMBURSEMENT STOP LOSS ANALYSIS

Query Description

>   **Report Name:**Reimbursement Stop Loss Analysis
>
>   **Query Name**:QF_RSLA
>
>   **Selection Criteria:**Facility
>
>   **Sort(s):** Carrier/Plan
>
>   **Description:**
>
>   This report, sorted by carrier/plan, provides an accounting of each patient's expected reimbursement, including proration plan dollars, total billed charges, total adjustments, and total insurance payments per account. This report is based on final billed accounts only; it does not consider adjustment or late bills.
>
>   **Notes:**
>
>   This report is printed on 132 column paper. It also contains print commands (that have been commented out) for printing the report in landscape on a Kyocera F-1000A laser printer.

Sample Query

```
   Query Name: QF_RSLA                              Routine:
       Printed: 08/06/91 at 4:24 PM
  Description: REIMBURSEMENT STOP LOSS ANALYSIS
     Last edit: 07/20/91 at 1:21 PM by DBA
Last compile: 07/20/91 at 1:23 PM

SQL Text
========
--This report, which is sorted by carrier/plan, provides an
--accounting of each patient's expected reimbursement, including
--proration plan dollars, total billed charges, total adjustments and
--total insurance payments per account.  This report is based on
--final billed accounts only; it does not consider adjustment or late --bills.

--The report is printed on 132 column paper.  It also contains print
--commands (which have been commented out) for printing the report in
--landscape on a Kyocera F-100A Laser printer.  To use this option,
--simply remove the '--' preceding the lines within the query.

SET RMARGIN=132
--   BMARGIN=14

READ    :XFAC CHARACTER (2) PROMPT 'Facility'

SELECT  CARRIER_NAME CHANGED HEADING 'Carrier',
        FIN_LINK@PAT_ACCT_NBR HEADING 'Account #' COLUMN 0 LEFT 11 SKIP,
        REIMB_AMT AS REIMB HEADING ' Proration|Plan' COLUMN 14,
        FIN_LINK@TOT_BILLED_CHG_AMT AS TOT_CHG HEADING
                'Total|Billed|Charges' COLUMN 31,
        (REIMB * 1.25) AS SLOSS HEADING 'CAP' COLUMN 48,

CASE    WHEN TOT_CHG < REIMB_AMT THEN REIMB_AMT
        WHEN TOT_CHG < SLOSS THEN TOT_CHG
        WHEN TOT_CHG > SLOSS THEN SLOSS

ELSE    TOT_CHG END AS EXPEC HEADING 'Expected|Reimb' COLUMN 65,
        FIN_LINK@ACCT_TOT_ADJ_AMT HEADING 'Total|Adjustments' COLUMN
82,
        (FIN_LINK@ACCT_PMT_AMT - FIN_LINK@PAT_PMT_AMT) AS INSP
                HEADING 'Total|Ins Pay' COLUMN 99,
        FIN_LINK@ACCT_BAL HEADING 'Acct Bal' COLUMN 116
```

```
FROM      FB_PROR_CONTR_ADJ ADJ, AG_INSURANCE INS,
          FA_ACCT_INS AI


WHERE     REIMB_AMT <> 0 AND
          BILL_SEQ=FIN_LINK@FNL_BILL_SEQ_NBR AND
          ADJ.INTN=INS.INTN AND
          ADJ.AN=INS.AN AND
          AI.INTN=INS.INTN AND
          AI.AN=INS.AN AND
          AI.COB_SEQ=INS.SEQ_NBR AND
          AI.ORIG_IK_NBR = ADJ.INS_SEQ AND
          FAC=:XFAC


ORDER     BY CARRIER_NAME
--INITIAL
  --      WRITE '!R! SPO L; SCPI 16.6; FONT 34; EXIT;'


BREAK     AT 1 SKIP 1


BREAK     AFTER CARRIER_NAME SKIP 1


WRITE     'Carrier' COLUMN 0,
          'Total:' COLUMN 1 SKIP,
          SUM(REIMB_AMT BY 1) COLUMN 14,
          SUM(FIN_LINK@TOT_BILLED_CHG_AMT BY 1) COLUMN 31,
          SUM(SLOSS BY 1) COLUMN 48,
          SUM(EXPEC BY 1) COLUMN 65,
          SUM(FIN_LINK@ACCT_TOT_ADJ_AMT BY 1) COLUMN 82,
          SUM(INSP BY 1) COLUMN 99,
          SUM(FIN_LINK@ACCT_BAL BY 1) COLUMN 116


HEADER
WRITE     FAC_NAME CENTER 132,
          'REIMBURSEMENT ANALYSIS OF STOP LOSS COVERAGE' CENTER 132,
          'Printed on '|TODAY| ' AT '| NOW CENTER 132


FOOTER    WRITE 'FOR INTERNAL USE ONLY' CENTER 132


--FINAL
     --   WRITE '!R! RES; EXIT;'
          End>
```

Figure 6.18 Reimbursement Analysis of Stop Loss Coverage

```
                                       GENERAL HOSPITAL
                              REIMBURSEMENT ANALYSIS OF STOP LOSS COVERAGE
                                   Printed on 08/07/91 AT 4:22 PM

Carrier
                            Total
              Proration     Billed                     Expected        Total          Total
Account #        Plan      Charges        CAP             Reimb      Adjustments      Ins Pay       Acct Bal
------------------------------------------------------------------------------------------------------------
AETNA L&C
A9113400101    $9,702.40   $12,128.00   12128.00       $12,128.00     -$2,425.60        0.00      $16,056.40

A9113500203      $750.58    $1,064.64     938.23          $938.23       -$314.06        0.00         $740.58

A9113400203    $4,720.00    $5,900.00    5900.00        $5,900.00     -$1,180.00        0.00       $4,720.00

Carrier
 Total:       $15,172.98   $19,092.64   18966.23       $18,966.23     -$3,919.66        0.00      $20,457.98

AETNA LIFE AND CAS
A9113200111    $2,251.38    $3,122.29    2814.23        $2,814.23       -$775.91        0.00       $2,346.38

A9113300209    $1,432.07    $2,005.05    1790.09        $1,790.09       -$572.98     1500.00         -$67.93

A9114400499   $21,915.96   $27,394.95   27394.95       $27,394.95     -$5,478.99        0.00      $21,915.96

A9113300286    $2,344.93    $2,931.16    2931.16        $2,931.16       -$586.23        0.00       $2,324.93

Carrier
 Total:       $27,944.34   $35,453.45   34930.43       $34,930.42     -$7,414.11     1500.00      $26,519.34

                                     FOR INTERNAL USE ONLY
```

REIMBURSEMENT STOP LOSS BY CARRIER SUMMARY CAP

Query Description

Report Name:Reimbursement Stop Loss by Carrier Summary Cap

Query Name:QF_RSLAS

Selection Criteria: Facility

Sort(s):   Carrier/Plan

Description:

This report provides a summary by carrier/plan of expected reimbursement, including proration plan dollars, total billed charges, total adjustments, and total insurance payments per account. This report is based on final accounts only; it does not consider adjustment or late bills.

Notes:

This report is printed on 132 column paper. The report contains commands (that have been commented out) for printing the report in landscape format on a Kyocera F-1000A laser printer.

Sample Query

```
   Query Name: QF_RSLAS                         Routine:
      Printed: 08/13/91 at 1:42 PM
  Description: REIMBURSEMENT STOP LOSS BY CARRIER SUMMARY CAP
    Last edit: 08/13/91 at 1:42 PM by DBA
Last compile: 08/13/91 at 1:33 PM

SQL Text
========
--This report provides a summary by carrier/plan of expected
--reimbursement, including proration plan dollars, total billed
--charges, total adjustments and total insurance payments per account.
--This report is based on final accounts only; it does not consider
--adjustment or late bills.  The report is printed on 132 column paper.
--The lines which have been commented out are for printing the report
--in landscape  format on a Kyocera laser printer.  To use this option,
--simply remove the '---' preceding the lines within the query.


SET RMARGIN = 132
--SET BMARGIN = 14


READ    :XFAC CHARACTER (2) PROMPT 'Facility'

SELECT  CARRIER_NAME CHANGED HEADING 'Carrier',
        SUM(REIMB_AMT)AS REIMB HEADING 'Proration|Plan' COLUMN 14,
        SUM(FIN_LINK@TOT_BILLED_CHG_AMT) AS TOT_CHG
                HEADING 'Total|Billed|Charges' COLUMN 31,
        SUM(FIN_LINK@TOT_BILLED_CHG_AMT * 1.25) AS SLOSS HEADING 'CAP'
                COLUMN 48,

CASE    WHEN TOT_CHG < REIMB_AMT THEN REIMB_AMT
        WHEN TOT_CHG < SLOSS THEN TOT_CHG
        WHEN TOT_CHG > SLOSS THEN SLOSS

ELSE    TOT_CHG END AS EXPEC HEADING 'Expected|Reimb' COLUMN 65,
        SUM(FIN_LINK@ACCT_TOT_ADJ_AMT) HEADING 'Total|Adjustments'
                COLUMN 82,
        SUM(FIN_LINK@ACCT_PMT_AMT - FIN_LINK@PAT_PMT_AMT) AS INSP
                HEADING 'Total|Ins Pay' COLUMN 99,
        SUM(FIN_LINK@ACCT_BAL) HEADING 'Acct Bal' COLUMN 116
```

```
FROM     FB_PROR_CONTR_ADJ ADJ, AG_INSURANCE INS,
         FA_ACCT_INS AI


WHERE    (REIMB_AMT <> 0) AND

         BILL_SEQ=FIN_LINK@FNL_BILL_SEQ_NBR AND

         ADJ.INTN=INS.INTN AND

         ADJ.AN=INS.AN AND

         AI.INTN=INS.INTN AND

         AI.AN=INS.AN   AND

         AI.COB_SEQ=INS.SEQ_NBR AND

         AI.ORIG_IK_NBR=ADJ.INS_SEQ AND

         FAC=:XFAC


GROUP    BY CARRIER_NAME


ORDER    BY CARRIER_NAME


--INITIAL
  --     WRITE '!R! SPO L; SCPI 16.6; FONT 34; EXIT;'


BREAK    AT 1 SKIP 1
         HEADER
         WRITE FAC_NAME CENTER 132,
         'REIMBURSEMENT SUMMARY STOP LOSS COVERAGE' CENTER 132,
         'PRINTED ON '|TODAY|' at '| NOW CENTER 132


--FINAL
  --     WRITE '!R! RES; EXIT;'


End>
```

Figure 6.19 Reimbursement Summary Stop Loss Coverage

```
                              ROVIDENCE MED CENTER
                        REIMBURSEMENT SUMMARY STOP LOSS COVERAGE
                            PRINTED ON 08/13/91 at 1:35 PM

Carrier
                          Total
          Proration       Billed                      Expected      Total          Total
            Plan          Charges        CAP       Reimb   Adjustments   Ins Pay      Acct Bal
--------------------------------------------------------------------------------------------
---------------
AETNA         $15,172.98    $19,092.64    23865.80    $19,092.64    -$3,919.66      0.00    $21,516.98

AETNA LIFE AND CAS
              $27,944.34    $35,453.45    44316.81    $35,453.45    -$7,414.11   1500.00    $26,519.34

AETNA/COMM    $13,007.10    $16,258.88    20323.61    $16,258.88                 1159.00     $5,099.88

ALLSTATE      $78,405.15    $98,231.71   122789.64    $98,231.71   -$22,608.86  15524.00    $58,751.82

BCBSO
               $3,308.00     $6,910.66     8638.33     $6,910.66    -$4,429.66      0.00     $3,815.36

BLUE CROSS OTHER/COMM I/P
              -$1,697.42     $1,678.48     2098.10     $1,678.48    -$3,375.90      0.00    -$1,697.42

CHAMPUS
              $27,000.00     $9,101.77    11377.21     $9,101.77                    0.00     $9,101.77

MEDICARE ACUTE CARE I/P
              $73,323.89   $125,583.51   156979.39   $125,583.51  $109,095.03   2720.00   $109,777.10

NORTH AMERICAN HEALTH
               $2,106.00     $2,848.01     3560.01     $2,848.01      -$741.46      0.00     $2,106.55
End (39/130)>
```

Payroll/Personnel

PR/PE SELECTED HOURS SINCE LAST INCREASE

Query Description

Report Name: PR/PE Selected Hours Since Last Increase

Query Name: QHP_HRS_LST_INCR

Selection Criteria: Entity Code

Hours Threshold (Comparison Basis for HoursSince Last Increase)

Sort(s):   Employee Name

Employee Number

Description:

This Personnel report provides a list of all employees within the selected entity who have exceeded a user-defined number of hours since their last position rate increase. The system provides an hours default of 500 hours as the hours threshold basis. This default can be overridden during the execution of the query. If an employee has multiple positions that exceed the hours threshold, all those positions would be listed.

Notes:

This report does not verify position entity selection, therefore multiple entities may be reflected on the report.

Sample Query

```
     Query Name: QHP_HRS_LST_INCR                       Routine:
          Printed: 10/09/92 at 11:00 AM
     Description: PR/PE Selected Hours Since Last Increase
       Last edit: 02/25/92 at 6:25 PM
    Last compile: 09/17/92 at 11:06 AM

    SQL Text
    ========
    --This Report is intended to provide a listing of all employees, within
    --an entity who have exceeded a user-defined number of hours since their
    --position rate increase.


    SET RMARGIN = 132


    --Prompt for desired Entity Code and Minimum Target Hours For Report
    --Minimum Target Hours default to 500 hours, User-Override at Run-Time


    READ :XEC CHAR(2) HEADING 'Enter Entity Code'
    READ :XHR NUMERIC(5) HEADING 'Enter Minimum Target Hours Since Last Incr'
                         DEFAULT 500


    SELECT
            EMP_NAME HEADING 'Employee Name' LEFT 25 CHANGED
    ,       EMP_NBR HEADING 'Emp Number' RIGHT 10 CHANGED
    ,       LOCATION_LINK@HOME_DEPT_NBR HEADING 'Home Department' CENTER 13
    ,       LOCATION_LINK@EMP_STATUS_CD HEADING 'ES' CENTER 4
    ,       LOCATION_LINK@WORK_STATUS_CD HEADING 'WS' CENTER 4
    ,       POS_SEQ HEADING 'SEQ' CENTER 3
    ,       POS_ENT HEADING 'EC' CENTER 4
    ,       GL_DPT_CD HEADING 'Pos Department' CENTER 13
    ,       JOB_CLASS_CD HEADING 'JC Code' CENTER 6
    ,       POS_NBR HEADING 'Pos #' CENTER 6
    ,       ACT_FLAG HEADING 'A/I' CENTER 3
    ,       HRS_SINCE_LST_INCR HEADING 'Hrs Since' CENTER 10
    ,       TO_DATE(PERF_REVW_DT,'MM/DD/YY') HEADING 'Last Rev Date'
    --Employee Information is read from the Employee Position Information
    FROM HE_EMP_POS_BASIC


    --Sort employees by Name and Employee Number
    ORDER BY EMP_NAME, EMP_NBR
```

```
        --Report only employees within specified entity and have not had a
        --position rate increase for user-defined hours (from READ)
        WHERE ENT = :XEC
                 AND HRS_SINCE_LST_INCR >= :XHR


        HEADER
                WRITE ENT_NAME CENTER 131
                WRITE 'Selected Hours Since Last Increase' CENTER 131
                WRITE 'Printed on ' | TODAY | ' at ' | NOW CENTER 131
                WRITE ' '
                WRITE ' HOURS SINCE LAST INCREASE THRESHOLD - ' | :XHR | '
        Hours'
                WRITE ' '
        End>
```

Figure 6.20 PR/PE Selected Hours Since Last Increase

```
                                       COUNTY GENERAL
                               Selected Hours Since Last Increase
                                 Printed on 10/08/92 at 9:35 AM

  HOURS SINCE LAST INCREASE THRESHOLD - 100.00 Hours

Employee Name            Emp Number  Home Department   ES   WS  SEQ  EC   Pos Department  JC Code  Pos #   A/I  Hrs Since
    Last Rev Date
----------------------------------------------------------------------------------------------------------------------
Adams,John Q               2008      0000008076        A    F    1   FW   0000008050       802      002     1    166.40
    01/01/90
Adams,Joseph               2040      0000008050        A    P    1   FW   0000008076       831      002     1    160.00

                                     0000008050        A    P    2   FW   0000008050       ZZZ      001     1    160.00

AlphaNumeric,Employee    ALPHACHAR   0000008050        20   F    1   FW   0000008050       801      002     1    168.00

Ashley,Frederick           2041      0000008050        A    F    1   FW   0000008090       823      002     1    160.00

Johnson,Lydell Barnes      2022      0000008076        A    F    1   FW   0000008090       822      002     1    160.00

End (6/63)>
```

PR/PE EMPLOYEE INSURANCE CLASS REPORT

Query Description

Report Name:PR/PE Employee Insurance Class Report

Query Name:QHP_EMP_INS_CLASS

Selection Criteria:Entity Code

User-Defined Field Location (For Insurance Class Value)

Sort(s):   Insurance Class (User Field Value)

Employee Status

Employee Name

Employee Number

Description:

This Personnel report is intended to provide a listing of all employees with a specific User-Defined Field defined as *Insurance Class.* The report demonstrated the reporting mechanism for the User-Defined Fields.

Notes:

The User-Defined Field prompt indicates the specific field reference number in the STAR *User-Defined Fields* table. Therefore, if Insurance Class was designated as the eighth occurrence field, your prompt response would indicate *8.*

Sample Query

```
   Query Name: QHP_EMP_INS_CLASS                     Routine:
        Printed: 10/09/92 at 11:00 AM
  Description: PR/PE EMPLOYEE INSURANCE CLASS REPORT
    Last edit: 02/25/92 at 6:25 PM
Last compile: 09/17/92 at 9:42 AM


SQL Text
========
--This report is intended to provide a listing of all employees with a
--specific User-Defined Field defined as "Insurance Class". The report
--demonstrates the reporting mechanism for the User-Defined Fields.


SET RMARGIN = 132


--The report prompts the user for the specific Entity Code and the
--User-Defined Field Location for the Insurance Class.
--The User-Defined Field prompt indicates the specific field reference
--number in the STAR "User-Defined Fields" table. Therefore, a user
--entry of "8" represents the eighth occurrence field in the STAR --table.


--The User-Defined Field is prompted as an "Integer" to match up with
--the BAR_INT value in the Table (see the WHERE clause).
READ :XEC CHAR(2) HEADING 'Please Enter Entity Code-- '
READ :XUF INTEGER(3)
        HEADING 'Please Enter the Ins Class User Field # -- '


SELECT EXTRACT(P.EMP_NAME,1,23) HEADING '' CHANGED,
         P.JOB_CLASS_CD HEADING '' LEFT 5 COLUMN 25,
         EXTRACT(P.JOB_CLS_MSTR_LINK@JOB_CLASS_DESC,1,10)
               HEADING '' COLUMN 31,
         P.EMP_NBR HEADING '' RIGHT 10 COLUMN 42,
         P.LOCATION_LINK@HOME_DEPT_NBR HEADING '' COLUMN 53,
         P.HD_DEMO_LINK@SEX HEADING '' COLUMN 65,
         P.HD_DEMO_LINK@EMP_BIRTHDATE HEADING '' COLUMN 68,
         P.LOCATION_LINK@EMP_HIRE_DT HEADING '' COLUMN 77,
         P.HRS_ASGN_PP HEADING '' RIGHT COLUMN 87,
         P.RATES_LINK@HOURLY_RATE HEADING '' RIGHT COLUMN 97,
         ROUND(P.HRS_ASGN_PP*P.RATES_LINK@HOURLY_RATE,2) AS BI_WGES
               HEADING  '' RIGHT COLUMN 108,
         P.LOCATION_LINK@EMP_STATUS_CD HEADING '' RIGHT COLUMN 120,
--       Only the first five characters of the user field is displayed
```

```
              EXTRACT(U.FLD_ENTRY,1,5) HEADING '' COLUMN 123,
              P.HD_DEMO_LINK@STATE HEADING '' COLUMN 129


   --Employee Information is extracted primarily from the Employee    Position


   --Information and the Employee User-Defined Fields Information.
   FROM HE_EMP_POS_BASIC P,
        HE_EMP_USER_FIELD U


   --The identification and linkage of tables are defined here. If the
   --user wishes to see all the employee positions, then the Pos_Seq
   --statement can be made inactive via the double dash comment flag.
   WHERE P.ENT = :XEC
     AND U.ENT = :XEC
     AND P.POS_SEQ = 1
     AND P.ENT = U.ENT
     AND P.EMP_NBR = U.EMP_NBR
     AND U.FLD_NBR = :XUF
   --The Report is sorted by User Field Value, Employee Status, Employee
   --Name, and by Employee Number


   ORDER BY U.FLD_ENTRY,
           P.LOCATION_LINK@EMP_STATUS_CD,
           P.EMP_NAME,
           P.EMP_NBR


   --Provide sub-total count of employees within each user-field value
   BREAK AFTER U.FLD_ENTRY
   WRITE   '*** Totals for Insurance Class '|
           EXTRACT(U.FLD_ENTRY,1,5)|' = '|
           COUNT(* BY U.FLD_ENTRY) COLUMN 30 SKIP,
           ' ' SKIP


   FINAL
           SKIP 2
           WRITE '*** TOTALS FOR ENTITY = '| COUNT(*)


   INITIAL SET :XPGN = 0


   HEADER
           SET :XPGN = :XPGN + 1
           WRITE TO_DATE(TODAY,'MON DD, YYYY') COLUMN 1,
```

```
                    'EMPLOYEE INSURANCE CENSUS' COLUMN 55,
                    'PAGE: ' |:XPGN COLUMN 120
          WRITE ' '
          WRITE 'Employee Full Name' COLUMN 0,
                    'JOBCL' COLUMN 24,
                    'JC DESC' COLUMN 31,
                    'Employee #' COLUMN 42,
                    'Home Dept' COLUMN 54,
                    'SEX' COLUMN 64,
                    'Birth Dt' COLUMN 68,
                    'Hire Dt' COLUMN 77,
                    'A-Hr' COLUMN 89,
                    'Hr Rate' Column 98,
                    'B-Wk Wges' COLUMN 109,
                    'ES' COLUMN 120,
                    'InsCl' COLUMN 123,
                    'ST' COLUMN 129

      End>
```

Figure 6.21 PR/PE Employee Insurance Class Report

```
 OCT 8, 1992                              EMPLOYEE INSURANCE CENSUS                                    PAGE: 1

Employee Full Name      JOBCL  JC DESC    Employee #  Home Dept SEX Birth Dt Hire Dt    A-Hr     Hr Rate    B-Wk Wges  ES InsCl ST

---------------------------------------------------------------------------------------------------------------------------

Mitchem,Francoise       804    Counter Pe    2000 0000006010  F  01/01/69 03/01/88   40.00     6.4100       256.40  AG 08/08 NJ
                                   *** Totals for Insurance Class 08/08 =  1


*** TOTALS FOR ENTITY = 1
End (1/3)>
```

PR/PE Employee Tce Timeline Report

Query Description

Report Name:PR/PE Employee TCE Timeline Report

Query Name:QHP_EMP_TIMELINES

Selection Criteria: Entity Code

Pay Cycle

Payroll Cycle Type (R/S/V/O)

Calendar Year

Pay Period

Sort(s):   Employee Home Department

Employee Number

TCE Type (Manual, Void, Standard, Additional)

TCE Sequence Number

Description:

This Payroll report is intended to provide a complete listing of employees with their entered detail time lines for a selected pay period run. This report is selected for a specific entity, pay cycle, cycle type, calendar year, and pay period. The information is extracted directly from the employee time lines records. Therefore, if an employee does not have any time lines, the employee is not reflected on the report.

Notes:

This report reflects employee time line hours, units, or dollars from information entered via the Employee Timecard Entry Process (or from the T&A Upload functions. This means that the report does not reflect the Gross Wages or PAID hours/units/dollars information.

This report can be used as a visual audit of the time line entry process for a payroll run.

Sample Query

```
   Query Name: QHP_EMP_TIMELINES                    Routine:
       Printed: 10/09/92 at 11:01 AM
  Description: PR/PE Employee TCE Timeline Report
     Last edit: 02/25/92 at 6:25 PM
Last compile: 09/17/92 at 11:01 AM
SQL Text
========
--This report is intended to provide a complete listing of employees
--with their entered detail time lines. This report is selected for a
--specific entity, pay cycle, cycle type, calendar year, and pay
--period.  The information is extracted from the entered time lines,
--therefore, if an employee does not have any time lines, then the
--employee is not reported.

--This report reflects the employee time line hours, units, or dollars
--that were entered via the Employee Timecard Entry Process (or from
--the T&A Upload function). This means that the report does not show
--the PAID hours/units/dollars information (from the Compute Process).

--Employee Timecard work variables to accumulate for hours, units and
--dollars.
SET RMARGIN = 82
DECLARE :XHRSTOT NUMERIC(8,2)
DECLARE :XUNITTOT NUMERIC(5,0)
DECLARE :XDOLLTOT NUMERIC(10,2)
--Department Work Variables for employee count, hours, units, dollars
DECLARE :XDCNT NUMERIC(4,0)
DECLARE :XDHRSTOT NUMERIC(10,2)
DECLARE :XDUNITTOT NUMERIC(7,0)
DECLARE :XDDOLLTOT NUMERIC(12,2)

--Define and prompt the user for the keys to find the applicable
--time lines in the Employee TCE Pay File.
READ :XEC CHAR(2) HEADING 'Please enter the desired Entity Code-- '
READ :XPC CHAR(2) HEADING 'Enter the Pay Cycle Code-- '
READ :XCT CHAR(1) HEADING 'Enter the Cycle Type (R/S/V/O)-- '
READ :XCY INTEGER(4) HEADING 'Enter the Calendar Year (YYYY)-- '
READ :XPP INTEGER(2) HEADING 'Enter the Pay Period-- '

--The detail lines of the report are handled via the "DETAIL"
```

```
--expression which ignores any definition of the "SELECT" statement.
--To avoid confusion, the convention is to "SELECT NULL".
SELECT NULL
FROM
        HP_EMP_TIMELINES
WHERE
        ENT = :XEC
        AND PAY_CYC  = :XPC
        AND CYC_TYPE = :XCT
        AND CAL_YR   = :XCY
        AND PAY_PER  = :XPP


--The report is sorted by employee home department, employee number,
--TCE Type (manual, void, standard, additional), and TCE Number.
ORDER BY
        TCE_MSTR_LINK@HOME_DPT,
        EMP_NBR,
        TC_TYPE,
        NBR
INITIAL
        SET :XDCNT = 0
        SET :XHRSTOT = 0
        SET :XUNITTOT = 0
        SET :XDOLLTOT = 0
        SET :XDHRSTOT = 0
        SET :XDUNITTOT = 0
        SET :XDDOLLTOT = 0


DETAIL
   WRITE
        POS_SEQ_NBR HEADING '' COLUMN 11 CENTER 3,
        PAY_TYPE HEADING '' COLUMN 15,
        HOLIDAY_CD HEADING '' COLUMN 19,
        WEEK_WORKED HEADING '' COLUMN 23,
        SHIFT_CD HEADING '' COLUMN 26,
        HRS_ENTERED HEADING '' DEFAULT '0.00' COLUMN 29,
        UNITS_ENTERED HEADING '' DEFAULT '0' COLUMN 38,
        DOLLARS_ENT HEADING '' DEFAULT '0.00' COLUMN 44,
        ENT_ENTERED HEADING '' COLUMN 56 LEFT,
        DPT_CHARGED HEADING '' COLUMN 60 RIGHT,
        GL_POST_YR HEADING '' COLUMN 72,
        GL_POST_PERIOD HEADING '' COLUMN 77
```

```
         SET :XHRSTOT = :XHRSTOT + HRS_ENTERED

         SET :XUNITTOT = :XUNITTOT + UNITS_ENTERED

         SET :XDOLLTOT = :XDOLLTOT + DOLLARS_ENT

         SET :XDHRSTOT = :XDHRSTOT + HRS_ENTERED

         SET :XDUNITTOT = :XDUNITTOT + UNITS_ENTERED

         SET :XDDOLLTOT = :XDDOLLTOT + DOLLARS_ENT


HEADER

         WRITE ENT_NAME CENTER 79

         WRITE 'EMPLOYEE TCE TIMELINE REPORT' CENTER 79

         WRITE 'Printed on '|TODAY|' at '|NOW CENTER 79

         WRITE ' '

         WRITE 'Pay Cycle: ' | :XPC | '  Cycle Type: ' | :XCT |

                 '  Calendar Year: ' | :XCY | '   Pay Period: ' | :XPP

                 COLUMN 1

         WRITE ' '

         WRITE   'EMPL NBR' COLUMN 3,

                 'EMPLOYEE NAME' COLUMN 15

         WRITE   'TCE TYPE' COLUMN 7,

                 'NBR' COLUMN 19,

                 'STAT' COLUMN 24,

                 'CHK DATE' COLUMN 31,

                 'CHK CD' COLUMN 41,

                 'CHK NUMBER' COLUMN 49

         WRITE   'POS' COLUMN 11,

                 'PT' COLUMN 15,

                 'HOL' COLUMN 19,

                 'WK' COLUMN 23,

                 'SH' COLUMN 26,

                 'HOURS' COLUMN 29,

                 'UNITS' COLUMN 38,

                 'DOLLARS' COLUMN 44,

                 'ENT' COLUMN 56,

                 'DEPT CHRGD' COLUMN 60,

                 'FYR' COLUMN 72,

                 'PD' COLUMN 77


BREAK AT EMP_NBR

         SET :XDCNT = :XDCNT + 1.0

         WRITE   ' '

         WRITE   EMP_NBR COLUMN 1,

                 TCE_MSTR_LINK@EMP_NAME COLUMN 15 LEFT
```

```
            BREAK AT TC_TYPE
                    WRITE ' ',
                            CASE WHEN TC_TYPE = 10 THEN 'MANUAL    '
                                  WHEN TC_TYPE = 20 THEN 'VOID      '
                                  WHEN TC_TYPE = 30 THEN 'STANDARD  '
                                  WHEN TC_TYPE = 40 THEN 'ADDITIONAL'
                                  ELSE 'UNKNOWN   ' END COLUMN 7,
                            NBR COLUMN 19 RIGHT,
                            TCE_CTRL_LINK@CK_STAT COLUMN 25,
                            TCE_CTRL_LINK@CK_DATE COLUMN 31,
                            TCE_CTRL_LINK@CK_CD COLUMN 43,
                            TCE_CTRL_LINK@CK_NBR COLUMN 49 RIGHT


            BREAK AFTER TC_TYPE
                    WRITE   'TCE TOTALS: ' |
                                ' Hours: ' | :XHRSTOT |
                                ' Units: ' | :XUNITTOT |
                                ' Dollars: ' | :XDOLLTOT COLUMN 10
                    SET :XHRSTOT = 0
                    SET :XUNITTOT = 0
                    SET :XDOLLTOT = 0


            BREAK AFTER TCE_MSTR_LINK@HOME_DPT
                    WRITE ' '
                    WRITE 'DEPT TOTALS: ' |
                                'Employee Count: ' | :XDCNT |
                            ' Hours: ' | :XDHRSTOT |
                            ' Units: ' | :XDUNITTOT |
                            ' Dollars: ' | :XDDOLLTOT COLUMN 3
                    SET :XDHRSTOT = 0
                    SET :XDUNITTOT = 0
                    SET :XDDOLLTOT = 0
                    SET :XDCNT = 0
                    WRITE ' '


            BREAK AT TCE_MSTR_LINK@HOME_DPT
                    WRITE ' ' PAGE
                    WRITE 'DEPARTMENT: ' | TCE_MSTR_LINK@HOME_DPT |
                            ' - ' | TCE_MSTR_LINK@HOME_DPT_DESC COLUMN 1
                    WRITE ' '
        End>
```

Figure 6.22 PR/PE Employee TCE Timeline Report

```
                              COUNTY GENERAL
                        EMPLOYEE TCE TIMELINE REPORT
                        Printed on 10/08/92 at 9:43 AM

 Pay Cycle: W1  Cycle Type: R   Calendar Year: 1992   Pay Period: 1

   EMPL NBR     EMPLOYEE NAME
        TCE TYPE    NBR  STAT   CHK DATE  CHK CD  CHK NUMBER
             POS PT  HOL WK SH HOURS    UNITS DOLLARS     ENT DEPT CHRGD  FYR  PD

--------------------------------------------------------------------------------

 DEPARTMENT: 0000001012 - PAYROLL CASH


      2010    Freeman,Albert T
        STANDARD    0    D    01/31/92    72            *
            1 10A        01   80.00    0       0.00   FW  0000008090  1992  1
            TCE TOTALS:  Hours: 80.00  Units: 0.00  Dollars: 0.00

   DEPT TOTALS: Employee Count: 1.00  Hours: 80.00  Units: 0.00  Dollars: 0.00

 DEPARTMENT: 0000006010 - NURSING ADMINISTRATION


      2000    Mitchem,Francoise
        STANDARD    0    D    01/31/92    72            *
            1 10I     1 00    0.00    0     333.33   FW  0000008050  1992  1
            1 10I     1 00    0.00    0     333.33   FW  0000008050  1992  1
            1 10I     1 00    0.00    0     333.33   FW  0000008050  1992  1
            1 10I     1 00    0.00    0      99.99   FW  0000008050  1992  1
            1 10I     1 00    0.00    0      99.99   FW  0000008050  1992  1
            TCE TOTALS:  Hours: 0.00  Units: 0.00  Dollars: 1199.97

      2016    Wilson,John
        STANDARD    0    D    01/31/92    72           21
            1 10A        01   80.00    0       0.00   FW  0000008076  1992  1
            TCE TOTALS:  Hours: 80.00  Units: 0.00  Dollars: 0.00

   DEPT TOTALS: Employee Count: 2.00  Hours: 80.00  Units: 0.00  Dollars: 1199.97


 DEPARTMENT: 0000006121 - INTENSIVE CARE


       935    TRITT,LAURA LANE
        STANDARD    0    D    01/31/92    72           15
            1 10A        01   80.00    0       0.00   FW  0000006121  1992  1
            TCE TOTALS:  Hours: 80.00  Units: 0.00  Dollars: 0.00

   DEPT TOTALS: Employee Count: 1.00  Hours: 80.00  Units: 0.00  Dollars: 0.00


End (28/28)>
```

PR/PE EMPLOYEE LANGUAGE BY SHIFT REPORT

Query Description

Report Name: PR/PE Employee Language by Shift Report

Query Name: QHP_EMP_LANG_SHIFT_RPT

Selection Criteria: Entity Code

Language Code

Employee Position Primary Shift

Sort(s):   Home Department

Employee Name

Employee Number

Employee Position Priority Order

Description:

This Personnel report is intended to provide a listing of all active employees with a specific language skill, for a specific position primary shift.

Notes:

All Employee Skills Inventory (including languages) are located in the *HD_* SQL Tables (in place of the previous *HE_* definitions).

Sample Query

```
    Query Name: QHP_EMP_LANG_SHIFT_RPT              Routine:
        Printed: 10/09/92 at 11:02 AM
    Description: PR/PE Employee Language by Shift Report
      Last edit: 02/25/92 at 6:25 PM
  Last compile: 09/17/92 at 10:01 AM

  SQL Text
  ========
  --This report is intended to provide a listing of all employees with a
  --specific language skill, for a specific position shift. NOTE: All
  --Employee Skills Inventory (including Languages) are located in the
  -- "HD_" SQL Tables (in place of the previous "HE_" definitions).


  SET RMARGIN = 132


  --Prompt user for desired Entity Code, desired language code, and
  --specific shift differential code.
  READ :XEC CHAR(2) HEADING 'Enter Entity Code--'
  READ :XLG CHAR(2) HEADING 'Please enter desired Language Code--'
  READ :XSH INTEGER(2) HEADING 'Please enter desired Shift Diff Code--'

  SELECT  P.LOCATION_LINK@HOME_DEPT_NBR HEADING 'Home Dept' CHANGED,
          P.EMP_NAME HEADING 'Employee Name' LEFT CHANGED,
          P.EMP_NBR  HEADING 'Empl Nbr' RIGHT CHANGED,
          P.POS_SEQ HEADING 'Pos Seq',
          P.POS_ENT HEADING 'Pos Ent',
          P.GL_DPT_CD HEADING 'Pos Dept',
          P.JOB_CLASS_CD HEADING 'Job Class',
          EXTRACT(P.JOB_CLS_MSTR_LINK@JOB_CLASS_DESC,1,15)
                  HEADING 'Job Class Desc'

  --Primary data read is from the Employee Position Information. The
  --isolation for the desired language code occurs in the WHERE Statement.
  FROM HE_EMP_POS_BASIC P,
       HD_APPL_LANGUAGES L
  --Report only employees within the specific entity, with selected
  --position shift. All three language fields for an employee are
  --examined.  NOTE: Because the Languages are now located in the "HD_"
  --tables, the key to the data is now "INTN" (Internal Number, not
```

```
       --Employee Number).  This information is now cross-application (meaning
       --that the same data is shared by both PAYROLL/PERSONNEL and Applicant
       --Management Modules).
       WHERE    P.ENT = :XEC
                AND P.INTN = L.INTN
                AND P.ACT_FLAG IN ('A','1')
                AND P.PRI_SHIFT = :XSH
                AND :XLG IN (L.LANG_1, L.LANG_2, L.LANG_3)
       --Sort the employees by employee home department, employee name and by
       --employee number
       ORDER BY P.LOCATION_LINK@HOME_DEPT_NBR,
                P.EMP_NAME,
                P.EMP_NBR,
                P.POS_SEQ
       HEADER
                WRITE P.ENT_NAME CENTER 131
                WRITE 'Employee Language by Shift Report' Center 131
                WRITE 'Printed on ' | TODAY | 'at ' | NOW CENTER 131
                WRITE ' '
                WRITE 'Selected Language Code   --  ' | :XLG
                WRITE 'Selected Shift Diff Code --  ' | :XSH
                WRITE ' '


       End>
```

Figure 6.23 PR/PE Employee Language by Shift Report

```
                                    GENERAL HOSPITAL A
                              Employee Language by Shift Report
                               Printed on 10/08/92at 9:44 AM

Selected Language Code  --  01
Selected Shift Diff Code --  1


Home Dept   Employee Name                       Empl Nbr  Pos Seq  Pos Ent   Pos Dept  Job Class  Job Class Desc
-----------------------------------------------------------------------------------------------------------------------
6022        Jones,Sally                         689784521    1     DP         6022      6600      RN - Register N
7065        Chan,Li-Kuang                       122624252    1     DP         7065      7750      Paramedic
8090        Carmino,Antonio                     462131501    1     DP         8090      8952      Groundskeeper
End (3/59)>
```

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PR/PE EMPLOYEE LABELS

Query Description

Report Name: PR/PE Employee Labels

Query Name: QHP_EMP_LABELS

Selection Criteria: Entity Code

Sort(s): ZIP Code

Employee Name

Employee Number

Description:

This Personnel report provides employee labels displaying the employee's name and mailing address. The Query reads the Employee Location/Hire Information to insure entity specific information.

For formatting purposes, each label consists of three data lines.

Sample Query

```
   Query Name: QHP_EMP_LABELS                    Routine:
       Printed: 10/09/92 at 11:04 AM
   Description: PR/PE Employee Labels
     Last edit: 02/25/92 at 6:25 PM
Last compile: 09/17/92 at 9:48 AM


SQL Text
========
--This Report is intended to provide for employee labels displaying the
--employee's name and mailing address. The program reads the Employee
--Location/Hire Information to insure entity specific information.
--Also, by accessing the Location/Hire Information, modifications to
--this program can be added for edits to date ranges, employee status,
--location information, etc.


--For formatting purposes, each label will consist of a three line
--label, with three lines between each label. Labels are not to be
--split across a page barrier. Since these are labels, then no column
--headings are necessary. The labels can contain up to 39 characters --per
line.


SET
        DISPLAY_END = 'N'
,       DISPLAY_LINE = 'N'
,       DISPLAY_PAGE = 'N'
,       DISPLAY_HEADING = 'N'
,       TMARGIN = 0
,       BMARGIN = 0
READ :XEC CHAR(2) HEADING 'Please Enter the Entity Code For Labels--'


SELECT
        EXTRACT(HD_DEMO_LINK@EMP_FIRST_NAME | ' ' |
          HD_DEMO_LINK@EMP_MID_INIT | ' ' |
          HD_DEMO_LINK@EMP_LAST_NAME,1,39) HEADING '' SKIP 3 PAGE 6,
        EXTRACT(HD_DEMO_LINK@ADDR_1 | ' ' |
          HD_DEMO_LINK@ADDR_2,1,39) HEADING '' SKIP,
        EXTRACT(HD_DEMO_LINK@CITY | ', ' |
          HD_DEMO_LINK@STATE | ' ' |
          HD_DEMO_LINK@ZIP,1,39) HEADING '' SKIP


FROM HE_EMP_LOC_REC
```

```
ORDER BY
        HD_DEMO_LINK@ZIP,
        HD_DEMO_LINK@EMP_NAME,
        EMP_NBR


WHERE ENT = :XEC
        AND HD_DEMO_LINK@EMP_NAME IS NOT NULL


HEADER
--        WRITE ''
End>
```

Figure 6.24 PR/PE Employee Labels

```
Frank David Roosevelt
#1 Pennsylvania Ave.
CONCORD, MI 20051


Deborah  Denning
2517 Skyland Trl
ATLANTA, GA 30319


David J Kempton
677 PARKWOOD DR P O DRAWER 811
DOUGLASVILLE, GA 30342


Myra  Tritt
P O BOX 10 APT 10
ATLANTA, GA 30342


Carla  Abatemann
43 Sunshine Lane
SUMMIT, NH 709012022


Barbara  Kaufman
123 MAIN STREET
SUMMIT, NH 709012022


John Q Adams
321 Main St 1234
DETROIT, GA 99999


Joseph  Adams
ASDF
DETROIT, GA 99999


Frederick  Ashley
1234
DETROIT, GA 99999
```

PR/PE Employee Life Insurance Premium Report

Query Description

Report Name: PR/PE Employee Life Insurance Premium Report

Query Name: QHP_EMP_LIFE_INS_PREM

Selection Criteria: Entity Code

Life Insurance Rate

Date of Reporting

Employee Minimum FTE Assigned

Base Salary Threshold Amount

Sort(s):   Employee Name

Employee Number

Employee Position Priority Order

Description:

This Personnel report is intended to provide a forecast of employee life insurance premiums, when those premiums are based upon user-supplied life insurance rate, FTE assignment basis, and salary base amount threshold. The prompt default for Base Salary Threshold Amount is $50,000.

Notes:

This report utilizes declared field variables, case statement, and a *GROUP BY* statement.

Sample Query

```
   Query Name: QHP_EMP_LIFE_INS_PREM               Routine:
       Printed: 10/09/92 at 11:05 AM
  Description: PR/PE Employee Life Insurance Premium Report
     Last edit: 02/25/92 at 6:25 PM
Last compile: 09/17/92 at 10:44 AM

SQL Text
========
--This personnel report is intended to provide a forecast of employee
--life insurance premiums based upon user-supplied life insurance rate,
--FTE assignment basis, base amount threshold for comparison. The
--report sorts by employee name and grand-totals the new insurance
--premiums for the entity.

--This report utilizes declared field variables, case statement, and a
--"GROUP BY" statement.

SET RMARGIN = 132
--SET SEARCH_LIMIT = 50

--Define variable and initialize for Entity Total Premium Amount
DECLARE :XTP NUMERIC(10,2)
DECLARE :XSAL NUMERIC(10,2)

--Prompt the User for Controlling Variables
READ :XEC CHAR(2) HEADING 'Please enter Entity Code-- '
READ :XLP NUMERIC(5,2) HEADING 'Please enter Life Insurance Rate-- '
READ :XDT DATE HEADING 'Enter 1st Day of Month Reporting (mm/dd/yy)-- '
READ :XFT NUMERIC(5,2) HEADING 'Enter minimum FTEs Assigned value-- '
READ :XBR NUMERIC(8,2) HEADING 'Enter base salary threshold amount-- '
         DEFAULT 50000.00

--Employee data is read from the Employee Position Information. Since
--the "Detail" command controls the formatting, the "SELECT" statement
--is null.
SELECT NULL
FROM HE_EMP_POS_BASIC
WHERE
        ENT = :XEC
        AND (LOCATION_LINK@EMP_TERM_DT >= :XDT
```

```
                    OR LOCATION_LINK@EMP_HIRE_DT <= :XDT)


     --Sort the detail entries by employee name and number.
     --Sort the employee positions by Position Priority Order.
     ORDER BY
             EMP_NAME,
             EMP_NBR,
             POS_SEQ


     --In order to insure that the employee meets the necessary FTE level,
     --the "GROUP BY" expression is utilized.
     GROUP BY
             EMP_NBR
             HAVING SUM(FTE_ASGN) >= :XFT


     INITIAL
             SET :XTP = 0
             SET :XSAL = 0


     --For each employee, the information printed includes: employee number,
     --name, social security number, birth date,employee status, wrk status,
     --home department, annual salary, projected salary, and projected life
     --insurance premium.
     DETAIL
        SET :XSAL = RATES_LINK@ANNUAL_SALARY
        WRITE
             EMP_NBR HEADING '' COLUMN 1,
             HD_DEMO_LINK@EMP_NAME HEADING '' COLUMN 13,
             HD_DEMO_LINK@SSN HEADING '' COLUMN 52,
             HD_DEMO_LINK@EMP_BIRTHDATE HEADING '' COLUMN 65,
             LOCATION_LINK@EMP_STATUS_CD HEADING '' COLUMN 75,
             LOCATION_LINK@WORK_STATUS_CD HEADING '' COLUMN 79,
             LOCATION_LINK@HOME_DEPT_NBR HEADING '' COLUMN 83,
             :XSAL HEADING '' COLUMN 95,
             CASE
                WHEN ROUND(:XSAL/1000)*1000 > :XBR THEN :XBR
                WHEN ROUND(:XSAL/1000)*1000 < :XBR THEN
                     ROUND(:XSAL/1000)*1000
             END AS NEW_BASE HEADING '' COLUMN 108,
             NEW_BASE/1000*:XLP AS LIFE_PREM HEADING '' Column 121
        SET :XTP = :XTP + LIFE_PREM
```

```
HEADER
        WRITE ENT_NAME CENTER 130
        WRITE 'Employee Life Insurance Premium Report' CENTER 130
        WRITE 'Printed on ' | TODAY | ' at ' | NOW CENTER 130
        WRITE ' '
        WRITE 'Selected Reporting Date: ' | :XDT |
              ' *Life Ins Rate: ' | :XLP |
              ' *Annual Salary Basis: ' | :XBR |
              ' *FTE Basis: ' | :XFT
        WRITE ' '
        WRITE
                'EMPL NBR' COLUMN 1,
                'EMPLOYEE NAME' COLUMN 13,
                'SOC SEC NBR' COLUMN 52,
                'BIRTH DT' COLUMN 65,
                'ES' COLUMN 75,
                'WS' COLUMN 79,
                'HOME DEPT' COLUMN 83,
                'ANNUAL BASE' COLUMN 95,
                'NEW BASE RT' COLUMN 108,
                'LIFE PREM' COLUMN 121


FINAL
     WRITE ' '

     WRITE '*** TOTAL LIFE INSURANCE PREMIUM PAYMENT: ' | :XTP COLUMN 5
End>
```

Figure 6.25 PR/PE Employee Life Insurance Premium Report

```
                                  COUNTY GENERAL
                           Employee Life Insurance Premium Report
                               Printed on 10/08/92 at 9:51 AM

Selected Reporting Date: 01/01/92 *Life Ins Rate: 0.10 *Annual Salary Basis: 50000.00 *FTE Basis: 0.40

  EMPL NBR    EMPLOYEE NAME                     SOC SEC NBR  BIRTH DT  ES  WS  HOME DEPT   ANNUAL BASE  NEW BASE RT  LIFE PREM

-----------------------------------------------------------------------------------------------------------------------
      2008    Adams,John Q                      123-98-7654  10/10/88  A   F   0000008076    27580.80    28000.00     2.80
      2040    Adams,Joseph                      888-88-8888  03/22/67  A   P   0000008050    10088.00    10000.00     1.00
9999999999    Allan,Mary Jane                   999-99-9999  10/18/62  A   F   0000008076     8058.96     8000.00     0.80
 ALPHACHAR    AlphaNumeric,Employee             001-23-0011  05/16/65  20  F   0000008050    20800.00    21000.00     2.10
      2041    Ashley,Frederick                  019-28-3746            A   F   0000008050    13000.00    13000.00     1.30
      2114    Brown-Smith,Robert B              333-99-6667  08/09/45  D   F   0000008060    31990.40    32000.00     3.20
1000000007    Campbell,Laura Kay                392-83-8575  11/22/30  20  F   0000006140    34170.00    34000.00     3.40
      2017    Doe,James                         222-44-6666  04/12/76  A   F   0000008050    37024.00    37000.00     3.70
      4002    Doe,Robert John                   000-00-0000  04/16/50  A   P   0000008090                    0.00     0.00
      2012    Dunne,Uriah                       123-45-6789  09/21/62  A   P   0000006020    10670.40    11000.00     1.10
      2010    Freeman,Albert T                  555-00-9999  02/08/49  A   F   0000001012    26520.00    27000.00     2.70
      2014    Garder,Gerald B                   345-76-7878  04/15/58  A   F   0000008076     5335.20     5000.00     0.50
 415116040    Hardy,Tiffany                     415-11-6040  04/21/57  A   F   0000009312                    0.00     0.00
      2005    Harris,Henry H                    111-33-5555  01/01/47  A   F   0000008076    17680.00    18000.00     1.80
 012123487    JAMES,JOHN                        012-12-3487            A   F   0000008076    15600.00    16000.00     1.60
      2011    JINGLE-HEIMER,JOHN JACOB          333-66-9999  06/11/38  A   R   0000009314    34320.00    34000.00     3.40
      2036    Johnson,Ben                       098-76-5432  08/03/41  A   F   0000008090    15995.20    16000.00     1.60
      2022    Johnson,Lydell Barnes             123-45-6789  09/06/62  A   F   0000008076    14393.60    14000.00     1.40
      2020    Jones,Darlene Marie               234-56-7890  01/02/43  A   P   0000008050    16307.20    16000.00     1.60
      2015    Jordan,James R                    543-54-2433  12/25/62  A   F   0000006123    54600.00    50000.00     5.00
      2031    Kempton,David J                   455-87-9303  04/15/47  20  F   0000006230    10670.40    11000.00     1.10
      2009    Kugle,Barney                      555-88-6666  07/23/62  A   A   0000001012     6396.00     6000.00     0.60
 987654321    McEntyre,Susan K                  453-13-5222  04/17/56  A   F   0000006140    21320.00    21000.00     2.10
                                                    .
                                                    .
                                                    .

       *** TOTAL LIFE INSURANCE PREMIUM PAYMENT: 85.30
End (62/108)>
```

PR/PE JOB CLASS REPORT

Query Description

Report Name: PR/PE Job Class Report

Query Name: QHP_JOB_CLASS_RPT

Selection Criteria: Entity Code

Print Hourly Rates (Suppression Parameter)

Sort(s):   Position Entity

Position Job Class

Employee Hire Date

Employee Name

Employee Number

Description:

This Personnel report provides a list of all active hospital employees, by position job class and ordered by hire date for seniority purposes. The report does not show non-hospital employees nor inactive positions. The report does sort and page break by position entity, for multientity environments.

The report gives a total count of employees, average hourly rate, and FTEs for each job class. If an employee has multiple positions, that employee may appear multiple times on the report.

Sample Query

```
   Query Name: QHP_JOB_CLASS_RPT                  Routine:
       Printed: 10/09/92 at 11:06 AM
  Description: PR/PE Job Class Report (ALL)
    Last edit: 02/25/92 at 6:25 PM
Last compile: 09/17/92 at 11:14 AM

SQL Text
========
--This report is intended to provide a listing of all active hospital
--employees, by position job class and ordered by hire date for
--seniority purposes. The report does not show non-hospital employees.
--The report sorts the employee information by Position Entity (for
--multientity environments).

SET RMARGIN = 132
DECLARE :XECNT INTEGER(4)
DECLARE :XCNT INTEGER(4)
DECLARE :XJCR NUMERIC(13,4)
DECLARE :XFTE NUMERIC(8,4)
DECLARE :XAVG NUMERIC(8,4)

--Prompt the user for the Entity Code and decide if the employee hourly
--rate should be printed or suppressed on the report.
READ :XEC CHAR(2) HEADING 'Please enter desired entity code-- '
READ :XHR CHAR(1) HEADING 'Print detail employee hrly rates? (Y/N)
[N]-- '
        DEFAULT 'N'

--Since the detail positions are being printed from the "DETAIL" event
--block, the "SELECT" statement is null, for convention.
SELECT NULL
FROM   HE_EMP_POS_BASIC

--Report is to display only the "Hospital" employees and "Active"
--positions for the selected entity. If you remove the '--', you may
--also limit the report to only the selected entity for the positions.
WHERE
        ENT = :XEC
        AND BASIC_LINK@EMP_TYPE IN ('H','h')
        AND ACT_FLAG IN ('A','1')
--      AND POS_ENT = :XEC
```

```
--Report sorts the employee data by job class, employee hire date, and
--employee name (and number, in cases of like names)
ORDER BY
        POS_ENT,
        JOB_CLASS_CD,
        LOCATION_LINK@EMP_HIRE_DT,
        EMP_NAME,
        EMP_NBR


INITIAL
        SET :XECNT = 0
        SET :XCNT = 0
        SET :XJCR = 0
        SET :XFTE = 0
        SET :XAVG = 0


--For each detail print line, the report shows the employee number,
--employee name, hire date, hire year, home department, employee
--status, employee work status, position department, position entry
--date (Effective From Date), pay grade, pay step, hourly rate (if not
--suppressed), etc.


DETAIL
   WRITE
        EMP_NBR HEADING '' LEFT COLUMN 1,
        EMP_NAME HEADING '' LEFT 25 COLUMN 12,
        LOCATION_LINK@HOME_DEPT_NBR HEADING '' RIGHT COLUMN 38,
        LOCATION_LINK@EMP_HIRE_DT HEADING '' COLUMN 49,
        TO_DATE(LOCATION_LINK@EMP_HIRE_DT,'YYYY') HEADING '' COLUMN 58,
        LOCATION_LINK@EMP_STATUS_CD HEADING '' RIGHT COLUMN 63,
        LOCATION_LINK@WORK_STATUS_CD HEADING '' RIGHT COLUMN 66,
        POS_SEQ HEADING '' RIGHT COLUMN 69,
        POS_ENT HEADING '' COLUMN 73,
        GL_DPT_CD HEADING '' RIGHT COLUMN 76,
        JOB_CLASS_CD HEADING '' LEFT COLUMN 87,
        POS_NBR HEADING '' RIGHT COLUMN 92,
        RATES_LINK@SH_RATE_CD HEADING '' COLUMN 97,
        JOB_CLS_MSTR_LINK@PAY_GRADE HEADING '' RIGHT COLUMN 102,
        RATES_LINK@PAY_STEP HEADING '' RIGHT COLUMN 107,
        POS_EFF_FR_DT HEADING '' COLUMN 112,
        CASE
```

```
             WHEN :XHR = 'Y' THEN RATES_LINK@HOURLY_RATE
             ELSE '*********' END HEADING '' COLUMN 121
     SET :XECNT = :XECNT + 1
     SET :XCNT = :XCNT + 1
     SET :XJCR = :XJCR + RATES_LINK@HOURLY_RATE
     SET :XFTE = :XFTE + FTE_ASGN


HEADER
         WRITE ENT_NAME CENTER 130
         WRITE 'JOB CLASS REPORT' CENTER 130
         WRITE 'Printed on '|TODAY|' at '|NOW CENTER 130
         WRITE ' '
         WRITE
                 'EMPL NBR' COLUMN 1,
                 'EMPLOYEE NAME' COLUMN 12,
                 'HOME DEPT' COLUMN 38,
                 'HIRE DT' COLUMN 49,
                 'YEAR' COLUMN 58,
                 'ES' COLUMN 63,
                 'WS' COLUMN 66,
                 'SEQ' COLUMN 69,
                 'EC' COLUMN 73,
                 'POS DEPT' COLUMN 76,
                 'JC' COLUMN 87,
                 'POS' COLUMN 92,
                 'SRC' COLUMN 97,
                 'PGd' COLUMN 102,
                 'PSp' COLUMN 107,
                 'ENTRY DT' COLUMN 112,
                 'HRLY RATE' COLUMN 121

--Provide for Position Entity Totals
BREAK AFTER POS_ENT
         WRITE ' ' PAGE
         WRITE ' *** ' | POS_ENT | ' ->  POSITION ENTITY TOTALS: ' |
                 'Employee Position Count: ' | :XECNT
         SET :XECNT = 0
--Provide for Job Class Totals
BREAK AFTER JOB_CLASS_CD
         WRITE ' '
         SET :XAVG = :XJCR/:XCNT
         WRITE 'JOB CLASS TOTALS: ' |
```

```
                    ' Employee Count: ' | :XCNT |
                    ' Avg Hourly Rate: ' | :XAVG |
                    ' FTEs Count: ' | :XFTE COLUMN 5
              SET :XCNT = 0
              SET :XJCR = 0
              SET :XFTE = 0
              SET :XAVG = 0


    --Provide for Job Class Header. The report page breaks for each new job
    --class.
    BREAK AT JOB_CLASS_CD
              WRITE ' ' PAGE
              WRITE 'JOB CLASS:  ' | JOB_CLASS_CD |
                    ' - ' | JOB_CLS_MSTR_LINK@JOB_CLASS_DESC
              WRITE ' '


    End>
```

Figure 6.26 PR/PE Job Class Report

```
                                    COUNTY GENERAL
                                   JOB CLASS REPORT
                              Printed on 10/08/92 at 9:54 AM

 EMPL NBR   EMPLOYEE NAME            HOME DEPT  HIRE DT  YEAR ES WS SEQ EC POS DEPT   JC   POS  SRC  PGd  PSp  ENTRY DT HRLY RATE

                                                                                    RATES_LINK@SH_RATE_CD
 --------------------------------------------------------------------------------------------------------------------------------
JOB CLASS:  9170 - Diet Aide

 2008       Adams,John Q             0000008076 01/09/86 1986  A F  2   DP       8050 9170 003  01   90S  MIN  09/15/92 2.5000

     JOB CLASS TOTALS:  Employee Count: 1 Avg Hourly Rate: 3.00 FTEs Count: 0.00
                                                                                                                  page 2
                                    COUNTY GENERAL
                                   JOB CLASS REPORT
                              Printed on 10/08/92 at 9:54 AM

 EMPL NBR   EMPLOYEE NAME            HOME DEPT  HIRE DT  YEAR ES WS SEQ EC POS DEPT   JC   POS  SRC  PGd  PSp  ENTRY DT HRLY RATE

                                                                                    RATES_LINK@SH_RATE_CD
 --------------------------------------------------------------------------------------------------------------------------------
 *** DP ->  POSITION ENTITY TOTALS: Employee Position Count: 1
End (43/63)>
```

PR/PE JOB CLASS REPORT (SELECT)

Query Description

Report Name: PR/PE Job Class Report (Select)

Query Name: QHP_JOB_CLASS_SEL_RPT

Selection Criteria: Entity Code

Job Class

Print Hourly Rates (Suppression Parameter)

Sort(s):   Position Entity

Position Job Class

Employee Hire Date

Employee Name

Employee Number

Description:

This Personnel report provides a list of all active hospital employees for a select job class and ordered by hire date for seniority purposes. The report does not show non-hospital employees nor inactive positions. The report does sort and page break by position entity, for multientity environments.

The report gives a total count of employees, average hourly rate, and FTEs for the select job class.

Sample Query

```
   Query Name: QHP_JOB_CLASS_SEL_RPT              Routine:
       Printed: 10/09/92 at 11:06 AM
  Description: PR/PE Job Class Report (Select)
    Last edit: 02/25/92 at 6:25 PM
Last compile: 09/17/92 at 11:23 AM

SQL Text
========
--This report is intended to provide a listing of all active hospital
--employees for a specific, user-supplied position job class and
--ordered by  hire  date  for  seniority purposes. The report does not
--show non-hospital  employees.  The report sorts the employee
--information by Position  Entity (for  multientity environments).

SET RMARGIN = 132
DECLARE :XECNT INTEGER(4)
DECLARE :XCNT INTEGER(4)
DECLARE :XJCR NUMERIC(13,4)
DECLARE :XFTE NUMERIC(8,4)
DECLARE :XAVG NUMERIC(8,4)

--Prompt the user for the Entity Code, Job Class Code,  and decide if
--the employee  hourly rate should be printed or suppressed on the --report.
READ :XEC CHAR(2) HEADING 'Please enter desired entity code-- '
READ :XJC CHAR(4) HEADING 'Enter desired job class code-- '
READ :XHR CHAR(1) HEADING 'Print detail employee hrly rates? (Y/N) [N]-- '
        DEFAULT 'N'

--Since the detail positions are being printed from the "DETAIL" event
--block, the "SELECT" statement is null, for convention.
SELECT NULL
FROM   HE_EMP_POS_BASIC

--Report is to display only the "Hospital" employees and "Active"
--positions for the selected entity. If you remove the '--', you may
--also limit the report to only the selected entity and selected job --class.
WHERE
        ENT = :XEC
        AND JOB_CLASS_CD = :XJC
        AND BASIC_LINK@EMP_TYPE IN ('H','h')
```

```
            AND ACT_FLAG IN ('A','1')
--          AND POS_ENT = :XEC


--Report sorts the employee data by job class, employee hire date, and
--employee name (and number, in cases of like names)
ORDER BY
            POS_ENT,
            JOB_CLASS_CD,
            LOCATION_LINK@EMP_HIRE_DT,
            EMP_NAME,
            EMP_NBR


INITIAL
            SET :XECNT = 0
            SET :XCNT = 0
            SET :XJCR = 0
            SET :XFTE = 0
            SET :XAVG = 0


--For each detail print line, the report shows the employee number,
--employee name, hire date, hire year, home department, employee
--status, employee work status, position department, position entry
--date (Effective From Date), pay grade, pay step, hourly rate (if not
--suppressed), etc.


DETAIL
   WRITE
            EMP_NBR HEADING '' LEFT COLUMN 1,
            EMP_NAME HEADING '' LEFT 25 COLUMN 12,
            LOCATION_LINK@HOME_DEPT_NBR HEADING '' RIGHT COLUMN 38,
            LOCATION_LINK@EMP_HIRE_DT HEADING '' COLUMN 49,
            TO_DATE(LOCATION_LINK@EMP_HIRE_DT,'YYYY') HEADING '' COLUMN 58,
            LOCATION_LINK@EMP_STATUS_CD HEADING '' RIGHT COLUMN 63,
            LOCATION_LINK@WORK_STATUS_CD HEADING '' RIGHT COLUMN 66,
            POS_SEQ HEADING '' RIGHT COLUMN 69,
            POS_ENT HEADING '' COLUMN 73,
            GL_DPT_CD HEADING '' RIGHT COLUMN 76,
            JOB_CLASS_CD HEADING '' LEFT COLUMN 87,
            POS_NBR HEADING '' RIGHT COLUMN 92,
            RATES_LINK@SH_RATE_CD HEADING '' COLUMN 97,
            JOB_CLS_MSTR_LINK@PAY_GRADE HEADING '' RIGHT COLUMN 102,
            RATES_LINK@PAY_STEP HEADING '' RIGHT COLUMN 107,
```

```
            POS_EFF_FR_DT HEADING '' COLUMN 112,
        CASE
            WHEN :XHR = 'Y' THEN RATES_LINK@HOURLY_RATE
            ELSE '*********' END HEADING '' COLUMN 121


    SET :XECNT = :XECNT + 1
    SET :XCNT = :XCNT + 1
    SET :XJCR = :XJCR + RATES_LINK@HOURLY_RATE
    SET :XFTE = :XFTE + FTE_ASGN


HEADER
        WRITE ENT_NAME CENTER 130
        WRITE 'JOB CLASS (SELECT) REPORT' CENTER 130
        WRITE 'Printed on '|TODAY|' at '|NOW CENTER 130
        WRITE ' '
        WRITE
                'EMPL NBR' COLUMN 1,
                'EMPLOYEE NAME' COLUMN 12,
                'HOME DEPT' COLUMN 38,
                'HIRE DT' COLUMN 49,
                'YEAR' COLUMN 58,
                'ES' COLUMN 63,
                'WS' COLUMN 66,
                'SEQ' COLUMN 69,
                'EC' COLUMN 73,
                'POS DEPT' COLUMN 76,
                'JC' COLUMN 87,
                'POS' COLUMN 92,
                'SRC' COLUMN 97,
                'PGd' COLUMN 102,
                'PSp' COLUMN 107,
                'ENTRY DT' COLUMN 112,
                'HRLY RATE' COLUMN 121


    --Provide for Position Entity Totals
    BREAK AFTER POS_ENT
        WRITE ' ' PAGE
        WRITE ' *** ' | POS_ENT | ' ->  POSITION ENTITY TOTALS: ' |
              'Employee Position Count: ' | :XECNT
        SET :XECNT = 0


    --Provide for Job Class Totals
```

```
BREAK AFTER JOB_CLASS_CD
        WRITE ' '
        SET :XAVG = :XJCR/:XCNT
        WRITE 'JOB CLASS TOTALS: ' |
                ' Employee Count: ' | :XCNT |
                ' Avg Hourly Rate: ' | :XAVG |
                ' FTEs Count: ' | :XFTE COLUMN 5
        SET :XCNT = 0
        SET :XJCR = 0
        SET :XFTE = 0
        SET :XAVG = 0


--Provide for Job Class Header. The report page breaks for each new job
--class.
BREAK AT JOB_CLASS_CD
        WRITE ' ' PAGE
        WRITE 'JOB CLASS:  ' | JOB_CLASS_CD |
                ' - ' | JOB_CLS_MSTR_LINK@JOB_CLASS_DESC
        WRITE ' '


End>
```

Figure 6.27 PR/PE Job Class Report (Select)

```
                                    COUNTY GENERAL
                                 JOB CLASS (SELECT) REPORT
                                 Printed on 10/08/92 at 9:56 AM

 EMPL NBR    EMPLOYEE NAME              HOME DEPT  HIRE DT  YEAR ES WS SEQ EC POS DEPT   JC   POS  SRC  PGd  PSp  ENTRY DT HRLY RATE

                                                                                        RATES_LINK@SH_RATE_CD
 ----------------------------------------------------------------------------------------------------------------------------------

 JOB CLASS:  803 - Cook

 2020       Jones,Darlene Marie        0000008050 09/03/67 1967  A P  1    FW 0000008050 803  001  01   80   MAX  09/05/67 *********
 2034       Wilson,Barbara J           0000008090 03/10/85 1985  A F  1    FW 0000008050 803  001  01   80        12/15/91 *********
 ALPHATHREE Roosevelt,Frank David      0000008060 01/01/87 1987  T F  1    FW 0000008050 803  001  01   80   MAX  07/20/89 *********
 987654321  McEntyre,Susan K           0000006140 10/30/89 1989  A F  1    FW 0000008050 803  001       80        10/31/89 *********
 2014       Garder,Gerald B            0000008076 12/07/89 1989  A F  1    FW 0000008050 803  001  01   80   MIN  12/08/89 *********
 2017       Doe,James                  0000008050 12/20/89 1989  A F  1    FW 0000008050 803  001       80   MAX  12/21/89 *********

    JOB CLASS TOTALS:  Employee Count: 6 Avg Hourly Rate: 9.00 FTEs Count: 4.00

                                                                                                                 page 2
                                    COUNTY GENERAL
                                 JOB CLASS (SELECT) REPORT
                                 Printed on 10/08/92 at 9:56 AM

 EMPL NBR    EMPLOYEE NAME              HOME DEPT  HIRE DT  YEAR ES WS SEQ EC POS DEPT   JC   POS  SRC  PGd  PSp  ENTRY DT HRLY RATE

                                                                                        RATES_LINK@SH_RATE_CD
 ----------------------------------------------------------------------------------------------------------------------------------

 *** FW ->  POSITION ENTITY TOTALS: Employee Position Count: 6
End (6/63)>
```

PR/PE JOB CLASS DOWNLOAD

Query Description

Report Name: PR/PE Job Class Download

Query Name: QHP_JOB_CLASS_DOWNLOAD

Selection Criteria: Entity Code

Sort(s):   Job Class

Description:

This report provides a consolidated download of all job classes, within a select entity, to a DIF file (on the PC) for use and import to a spreadsheet (i.e., Lotus 1-2-3). In the query itself, the specific PC file name and file type or format are declared. Overall, this file includes the total count of employees for the job class, the total annual wages, and the average hourly rate.

Sample Query

```
   Query Name: QHP_JOB_CLASS_DOWNLOAD                Routine:
        Printed: 10/09/92 at 11:07 AM
  Description: PR/PE Job Class Download (DIF Format)
    Last edit: 02/25/92 at 6:25 PM
Last compile: 09/17/92 at 11:08 AM
SQL Text
========
--This report is intended to provide a file listing of all job
--classes, with active hospital employees, showing the total number of
--employees assigned, the total annual wages projected, the total FTE
--count, and the  average hourly rate. This file is intended to
--download to a  PC for  use  with LOTUS 1-2-3 (in a "DIF" file --format).

--Define the output file name and data format for the PC
--(Note: remember to set up Download variables (DL) outside of SQL)
SET FILE = 'C:\SQL\JCDL.DAT'
SET FILE_TYPE = 'DIF'

DECLARE :XCNT INTEGER(4)
DECLARE :XJCR NUMERIC(13,4)
DECLARE :XFTE NUMERIC(8,4)
DECLARE :XAVG NUMERIC(8,4)
DECLARE :XSAL NUMERIC(14,2)

--Prompt the user for the Entity Code
READ :XEC CHAR(2) HEADING 'Please enter desired entity code-- '

--Since the detail positions are being extracted and totaled printed
--from the "DETAIL" event block, the "SELECT" statement is null, for --
convention.
SELECT NULL
FROM   HE_EMP_POS_BASIC

--File is to include only the "Hospital" employees and "Active"
--positions for the selected entity. This file is also limited to only
--those positions defined for the selected entity.
WHERE
        ENT = :XEC
        AND POS_ENT = :XEC
        AND BASIC_LINK@EMP_TYPE IN ('H','h')
```

```
                  AND ACT_FLAG IN ('A','1')
        --File sorts the data by job class
        ORDER BY
                  JOB_CLASS_CD
        INITIAL
                  SET :XCNT = 0
                  SET :XJCR = 0
                  SET :XFTE = 0
                  SET :XAVG = 0
                  SET :XSAL = 0
        --For each detail job class, the program reads through the employee
        --position information and accumulates the totals needed for the
        --download file.
        DETAIL
                  SET :XCNT = :XCNT + 1
                  SET :XJCR = :XJCR + RATES_LINK@HOURLY_RATE
                  SET :XFTE = :XFTE + FTE_ASGN
                  SET :XSAL = :XSAL + RATES_LINK@ANNUAL_SALARY


        HEADER
                  WRITE ENT_NAME CENTER 80
                  WRITE 'JOB CLASS DOWNLOAD REPORT' CENTER 80
                  WRITE 'Created on '|TODAY|' at '|NOW CENTER 80
                  WRITE ' '


        --Provide for Job Class Totals (single line totals)
        BREAK AFTER JOB_CLASS_CD
                  WRITE ' '
                  SET :XAVG = :XJCR/:XCNT
                  WRITE 'JOB CLASS ' | JOB_CLASS_CD | ' - ' |
                          JOB_CLS_MSTR_LINK@JOB_CLASS_DESC COLUMN 1
                  WRITE ' Empl Count: ' | :XCNT |
                          ' Total Salaries: ' | :XSAL |
                          ' Avg Hrly Rate: ' | :XAVG |
                          ' FTEs: ' | :XFTE COLUMN 7
                  SET :XCNT = 0
                  SET :XJCR = 0
                  SET :XFTE = 0
                  SET :XAVG = 0
                  SET :XSAL = 0
        End>
```

PR/PE EMPLOYEE STAFFING REPORT

Query Description

Report Name: PR/PE Employee Staffing Report

Query Name: QHP_EMP_STAFF_RPT

Selection Criteria: Entity Code

Sort(s): Employee Home Department

Employee Name

Employee Number

Employee Position Priority Order

Description:

This Personnel report provides a complete list of employees and their active positions, within each home department. This report provides a visual accounting for the home department manager for all positions, with review information displayed, held by the associated employees. This report includes both hospital and non-hospital type employees.

Sample Query

```
   Query Name: QHP_EMP_STAFF_RPT                    Routine:
       Printed: 10/09/92 at 11:08 AM
  Description: PR/PE Employee Staffing Report
    Last edit: 02/25/92 at 6:25 PM
Last compile: 09/17/92 at 10:50 AM

SQL Text
========
--This report is intended to provide a complete listing of employees
--and their active positions, by home department. This report provides
--a visual accounting for the home department manager of all positions,
--with review information displayed, for their employees. This report
--includes both  Hospital and Non-Hospital Employees.


SET RMARGIN = 132


--Create work variables to collect and report department employee
--count, total scheduled hours per pay period, and FTEs.
DECLARE :XDCNT NUMERIC(4,0)
DECLARE :XHRSTOT NUMERIC(8,2)
DECLARE :XFTETOT NUMERIC(5,2)


--Define and prompt the user for the keys to find the applicable
--employees for the desired entity.
READ :XEC CHAR(2) HEADING 'Please enter the desired Entity Code-- '


--The detail lines of the report are handled via the "DETAIL"
--expression, which ignores any definition of the "SELECT" statement.
--To avoid confusion, the convention is to "SELECT NULL".
SELECT NULL


--The detail information is garnered from a READ from the Employee
--Position Information.
FROM
        HE_EMP_POS_BASIC


--Select only those positions that are active for the defined entity
--If you remove the "--" in front of the Basic Link line, then you
--will report only Hospital Employees (otherwise, you got Hospital and
--Non-Hosp).
```

```
WHERE
        ENT = :XEC
        AND ACT_FLAG IN ('A','1')
--      AND BASIC_LINK@EMP_TYPE IN ('H','h')


--The report is sorted by employee home department, employee name, and
--employee number. The report shows positions by Position Priority Order.


ORDER BY
        LOCATION_LINK@HOME_DEPT_NBR,
        EMP_NAME,
        EMP_NBR,
        POS_SEQ


INITIAL
        SET :XDCNT = 0
        SET :XHRSTOT = 0
        SET :XFTETOT = 0


DETAIL
   WRITE
        POS_SEQ HEADING '' COLUMN 5,
        POS_ENT HEADING '' COLUMN 9,
        GL_DPT_CD HEADING '' COLUMN 13,
        JOB_CLASS_CD HEADING '' COLUMN 25,
        JOB_CLS_MSTR_LINK@JOB_CLASS_DESC HEADING '' COLUMN 30,
        POS_NBR HEADING '' COLUMN 57,
        CASE
            WHEN  JOB_CLS_MSTR_LINK@PAY_STATUS = 'E' THEN 'Exempt     '
            WHEN  JOB_CLS_MSTR_LINK@PAY_STATUS = 'N' THEN 'Non-Exempt'
            ELSE 'Unknown' END HEADING '' COLUMN 62,
        JOB_CLS_MSTR_LINK@PAY_GRADE HEADING '' COLUMN 74,
        RATES_LINK@PAY_STEP HEADING '' COLUMN 80,
        PRI_SHIFT HEADING '' COLUMN 86,
        HRS_ASGN_PP HEADING '' COLUMN 92,
        HRS_SINCE_LST_INCR HEADING '' COLUMN 101,
        PERF_REVW_DT HEADING '' COLUMN 111,
        NXT_PERF_REVW_DT HEADING '' COLUMN 121
      SET :XHRSTOT = :XHRSTOT + HRS_ASGN_PP
      SET :XFTETOT = :XFTETOT + FTE_ASGN


HEADER
```

```
            WRITE ENT_NAME CENTER 130
            WRITE 'EMPLOYEE STAFFING REPORT' CENTER 130
            WRITE 'Printed on '|TODAY|' at '|NOW CENTER 130
            WRITE ' '
    --  Employee Information Header:
            WRITE    'EMPL NUMBER' COLUMN 1,
                     'EMPLOYEE NAME' COLUMN 13,
                     'ES' COLUMN 52,
                     'ESR' COLUMN 55,
                     'WS' COLUMN 60,
                     'WSH' COLUMN 63,
                     'HIRE DT' COLUMN 69,
                     'CONT SRV' COLUMN 79,
                     'TERM DT' COLUMN 89,
                     'PAY IND' COLUMN 99,
                     'PAY CYC' COLUMN 108
    --  Employee Position Header (line 1):
            WRITE
                     'POS' COLUMN 5,
                     'POS' COLUMN 9,
                     'POSITION' COLUMN 13,
                     'POS' COLUMN 57,
                     'PAY' COLUMN 74,
                     'PAY' COLUMN 80,
                     'PRI' COLUMN 86,
                     'HRS-PP' COLUMN 92,
                     'HRS SNCE' COLUMN 101,
                     'LST PERF' COLUMN 111,
                     'NXT PERF' COLUMN 121
    --  Employee Position Header (line 2):
            WRITE
                     'SEQ' COLUMN 5,
                     'ENT' COLUMN 9,
                     'DEPARTMENT' COLUMN 13,
                     'JOB CLASS' COLUMN 25,
                     'NBR' COLUMN 57,
                     'PAY STAT' COLUMN 62,
                     'GRAD' COLUMN 74,
                     'STEP' COLUMN 80,
                     'SHFT' COLUMN 86,
                     'ASSIGN' COLUMN 92,
                     'LAST INC' COLUMN 101,
```

```
                          'REV DATE' COLUMN 111,
                          'REV DATE' COLUMN 121


        BREAK AT EMP_NBR
        -- For each employee, print their employee number, name, employee
        -- status,employee status reason, work status, work status hours code,
        -- hire date, continuous service date, termination date, pay indicator,
        -- and pay cycle.
                SET :XDCNT = :XDCNT + 1
                WRITE   ' '
                WRITE   EMP_NBR COLUMN 1,
                        EMP_NAME COLUMN 13 LEFT,
                        LOCATION_LINK@EMP_STATUS_CD COLUMN 52,
                        LOCATION_LINK@EMP_STAT_REASON_CD COLUMN 55,
                        LOCATION_LINK@WORK_STATUS_CD COLUMN 60,
                        LOCATION_LINK@WORK_STAT_HRS_CD COLUMN 63,
                        LOCATION_LINK@EMP_HIRE_DT COLUMN 69,
                        LOCATION_LINK@CONTINUOUS_SERV_DT COLUMN 79,
                        LOCATION_LINK@EMP_TERM_DT COLUMN 89,
                        LOCATION_LINK@EMP_PAY_IND COLUMN 101,
                        LOCATION_LINK@PAY_CYCLE COLUMN 110


        BREAK AFTER LOCATION_LINK@HOME_DEPT_NBR
                WRITE ' '
                WRITE 'DEPT TOTALS: ' |
                        'Employee Count: ' | :XDCNT |
                      '  Assigned Hours: ' | :XHRSTOT |
                      '  FTE Count : ' | :XFTETOT   COLUMN 1
                SET :XHRSTOT = 0
                SET :XFTETOT = 0
                SET :XDCNT = 0
                WRITE ' '


        BREAK AT LOCATION_LINK@HOME_DEPT_NBR
                WRITE ' ' PAGE
                WRITE '***  DEPARTMENT: ' | LOCATION_LINK@HOME_DEPT_NBR |
                        ' - ' | LOCATION_LINK@HOME_DEPT_NAME COLUMN 1
                WRITE ' '


        End>
```

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Figure 6.28 PR/PE Employee Staffing Report

```
                                              COUNTY GENERAL
                                          EMPLOYEE STAFFING REPORT
                                         Printed on 10/08/92 at 9:57 AM

EMPL NUMBER EMPLOYEE NAME                             ES ESR  WS WSH   HIRE DT   CONT SRV  TERM DT   PAY IND  PAY CYC
   POS POS POSITION                                        POS           PAY  PAY   PRI   HRS-PP    HRS SNCE  LST PERF  NXT PERF
   SEQ ENT DEPARTMENT   JOB CLASS                          NBR  PAY STAT  GRAD STEP  SHFT  ASSIGN    LAST INC  REV DATE  REV DATE
-----------------------------------------------------------------------------------------------------------------------

***  DEPARTMENT: 0000001012 - PAYROLL CASH


    2010  Freeman,Albert T                          A   NH   F  06   10/23/89  10/23/89            YES      W1
  1   FW  0000008090  822  Supply Clerk                  001  Non-Exempt 82   MID   01    80.00     160.00

    2009  Kugle,Barney                               A    A   06   10/23/89  10/23/89  06/02/92  YES      W1
  1   FW  0000008050  804  Counter Person               001  Non-Exempt 80   MAX   00    40.00

DEPT TOTALS: Employee Count: 2.00  Assigned Hours: 120.00  FTE Count : 1.50


                                                                                                      page 2
                                              COUNTY GENERAL
                                          EMPLOYEE STAFFING REPORT
                                         Printed on 10/08/92 at 9:57 AM

EMPL NUMBER EMPLOYEE NAME                             ES ESR  WS WSH   HIRE DT   CONT SRV  TERM DT   PAY IND  PAY CYC
   POS POS POSITION                                        POS           PAY  PAY   PRI   HRS-PP    HRS SNCE  LST PERF  NXT PERF
   SEQ ENT DEPARTMENT   JOB CLASS                          NBR  PAY STAT  GRAD STEP  SHFT  ASSIGN    LAST INC  REV DATE  REV DATE
-----------------------------------------------------------------------------------------------------------------------

***  DEPARTMENT: 0000006010 - NURSING ADMINISTRATION


    2046  Abatemann,Carla                           A   T1   F  01   09/14/92  09/14/92            YES      W1
  1   FW  0000006121  300  1ST YR RESIDENT               001  Exempt     30         08    80.00

    2000  Mitchem,Francoise                        AG   T1   F  03   03/01/88  03/04/88            YES      W1
  1   FW  0000008050  804  Counter Person               001  Non-Exempt 80   MIN   02    40.00      40.00  06/20/89  06/25/90
                                                                                           .
                                                                                           .
                                                                                           .

DEPT TOTALS: Employee Count: 4.00  Assigned Hours: 360.00  FTE Count : 4.50

End (45/63)>
```

Chapter 7 - STAR LABORATORY

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Illustrations

INTRODUCTION

This is the STAR Laboratory section of the *STAR Vista Reporting/SQL Reference Guide*. In the next several pages, you can see the new and modified tables that STAR Vista Reporting uses in the STAR Laboratory product.

This section also briefly discusses functions relative to STAR Laboratory. Refer to the *KB_SQL Database Administrator's Guide* for details of creating and modifying tables and functions.

A few sample queries with their descriptions and results are included. Refer to the *KB_SQL Reference Guide* for information on building, modifying, and running queries.

VIEWS

A *view* is a *virtual table* whose information is defined by a user. Views provide major benefits including:

- **Security**

Users can be given access to the data through views, restricting access to sensitive information.

- *Query Simplicity*

A view can be created from several tables and be presented to the user as only one table (a *virtual table*).

- *User Simplicity*

Views can be tailored to a user's scope or access, defining his/her view of the data.

The EZQ Editor has a limitation of using one table at a time; therefore, views can offer a better variety of information. If your department is using the EQZ Editor more frequently than the SQL Editor, you may find it helpful to create more views. When the EZQ Editor asks for a table name to be entered, you can enter the name of a view for diversified reporting needs.

The McKesson database naming conventions for VIEWS are as follows:

Naming Conventions for Queries Creating VIEWS:

```
Q       _____       V_Description

|       |      |

|       |      |_____VIEW

|       |

|       |_____Product Letter:  G=STAR FINANCIALS Accounts Payable

|     H=STAR FINANCIALS Payroll/Personnel

|     I=STAR FINANCIALS Materials Management

|     J=STAR FINANCIALS General Ledger

|     F=STAR FINANCIALS Patient Accounting

|     A=STAR Allstar
```

| C=STAR Patient Care

| L=STAR Laboratory

| P=STAR Pharmacy

| X=STAR Radiology

|_____Query

EXAMPLE:QLV_LAB_CLINICAL_VIEW

Naming Conventions for VIEWS:

   V_View Name

EXAMPLE:V_LAB_CLINICAL_VIEW

The following pages show sample VIEW descriptions and sample queries to create the VIEWS described. These views are examples of how to create a view. If changes are needed to a view, the SQL user needs to copy the query to another name using his or her hospital's naming convention. The VIEW name itself could be changed as well. This prevents the query and view from being overwritten with an application upgrade. For more information on the creation of VIEWS, please refer to the *KB_SQL Database Administrator's Guide* and the *KB_SQL Reference/User's Guide.*

V_CLINICAL_VIEW_GEN_LAB

Query Name:QLV_CLINICAL_VIEW_GEN_LAB

View Name:V_CLINICAL_VIEW_GEN_LAB

Description:

This query creates a view containing the columns from the major result tables (LG_ABNORMAL_FLAGS, LG_PANIC_VALUES, and LG_RESULTS). Master accession information and test information are also included to provide the appropriate demographic information for the results information. The table LG_ACCN_DATE_INDEX is included to limit, based on accession date range, the size of the database searched. This date range needs to be added to this query prior to creating the VIEW.

This view can be used for creating reports on the clinical information contained in the result file. For example, this view can be used to write reports listing all abnormal results, or all panic values for a specified date range.

Notes:

Always use a limited date range when writing reports using this view.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QLV_CLINICAL_VIEW_GEN_LAB              Routine:
       Printed: 08/03/91 at 11:12 AM
  Description: Clinical Results Info for General Lab tests
     Last edit: 06/21/91 at 10:28 AM by DBA


SQL Text
========


CREATE VIEW V_CLINICAL_VIEW_GEN_LAB
(FAC
,ACCN
,TEST_CD
,TEST_NAME
,INTN
,AN
,TEST_TYPE
,AGE_RELATED_NORM
,BAYS_SECTIONS
,CHRG_RESULT
,COLLECT_REQ
,CROSSLINKS_USED
,DELTA_CHECKS
,HIS_CARDFILE
,INCOMPLETES
,MASTER_TEST_CD
,SECTION_CD
,SECTION_NAME
,SENDOUT_TYPE
,SHORT_NAME
,SPEC_DFLT
,SPEC_DFLT_CD
,SPEC_POS
,MAX_SPEC_AGE
,METHOD_DFLT
,NBR_RES
,NORM_VER
,N_POOL
,ORDERING_TEST_CD
,ORDER_CATG
,PANIC_RELS_SL
```

```
,WKLD_CAPTURE
,ACCN_COLLECT_NBR
,ABB_REQUEST_NBR
,ARCHIVE_DATE
,HIGH_RISK_IND
,INP_OP_IND
,BED
,STATION
,CASE_NBR
,COLLECT_PERIOD
,CONTR_CD
,CONTR_DESC
,CORRECTED_NBR
,CURR_LOC
,ORDERING_DPT
,ORDERING_PHY_CD
,ORDERING_PHY_NAME
,ORDER_DIAGNOSIS
,ORDER_DIAGNOSIS_CD
,ORDER_PRIORITY
,PAT_ACCT_NBR
,PAT_NAME
,PAT_BIRTHDATE
,PAT_SEX
,PAT_TYPE
,PERFORMING_DPT
,PERFORMING_TEST_CD
,NEW_ACCN
,NEW_ORD_NBR
,NORMAL_VER
,NPOOLS
,NUR_COLL_FLG
,ORDERING_CATG
,ORDERING_CATG_CD
,PERFORM_TEST_NAME
,PRECAN_RESULT_CD
,REJ_SPEC_ACCN
,REV_Q_NAME
,SENDOUT_LAB
,SENDOUT_LAB_CD
,SPECIMEN
,SPECIMEN_CD
```

```
                    ,SPECIMEN_MOD

                    ,STATUS

                    ,STATUS_CD

                    ,UNIT_NBR

                    ,VAR_PRC_1

                    ,WORKLOAD_FLAG

                    ,APPROV_TECH_ID

                    ,APPROV_TECH_NAME

                    ,REPORTED_TO

                    ,RESULT_TECH_ID

                    ,NOTICE_CD

                    ,NOTICE_DESC

                    ,RESULT_TECH_NAME

                    ,PANIC_DT

                    ,PANIC_TM

                    ,ABNORMAL_FLAG ,DOC_NBR

                    ,EXTERNAL_INTERNAL

                    ,RESULT_VALUE

                    ,SPEC_PROC

                    ,UNITS)  AS


                    SELECT FAC

                    ,ACCN

                    ,TEST_CD

                    ,TEST_NAME

                    ,INTN

                    ,AN

                    ,TEST_TYPE

                    ,AGE_RELATED_NORM

                    ,BAYS_SECTIONS

                    ,CHRG_RESULT

                    ,COLLECT_REQ

                    ,CROSSLINKS_USED

                    ,DELTA_CHECKS

                    ,HIS_CARDFILE

                    ,INCOMPLETES

                    ,MASTER_TEST_CD

                    ,SECTION_CD

                    ,SECTION_NAME

                    ,SENDOUT_TYPE

                    ,SHORT_NAME

                    ,SPEC_DFLT
```

```
,SPEC_DFLT_CD
,SPEC_POS
,MAX_SPEC_AGE
,METHOD_DFLT
,NBR_RES
,NORM_VER
,N_POOL
,ORDERING_TEST_CD
,ORDER_CATG
,PANIC_RELS_SL
,WKLD_CAPTURE
,ACCN_COLLECT_NBR
,ABB_REQUEST_NBR
,ARCHIVE_DATE
,HIGH_RISK_IND
,INP_OP_IND
,BED
,STATION
,CASE_NBR
,COLLECT_PERIOD
,CONTR_CD
,CONTR_DESC
,CORRECTED_NBR
,CURR_LOC
,ORDERING_DPT
,ORDERING_PHY_CD
,ORDERING_PHY_NAME
,ORDER_DIAGNOSIS
,ORDER_DIAGNOSIS_CD
,ORDER_PRIORITY
,PAT_ACCT_NBR
,PAT_NAME
,PAT_BIRTHDATE
,PAT_SEX
,PAT_TYPE
,PERFORMING_DPT
,PERFORMING_TEST_CD
,NEW_ACCN
,NEW_ORD_NBR
,NORMAL_VER
,NPOOLS
,NUR_COLL_FLG
```

```
                ,ORDERING_CATG

                ,ORDERING_CATG_CD

                ,PERFORM_TEST_NAME

                ,PRECAN_RESULT_CD

                ,REJ_SPEC_ACCN

                ,REV_Q_NAME

                ,SENDOUT_LAB

                ,SENDOUT_LAB_CD

                ,SPECIMEN

                ,SPECIMEN_CD

                ,SPECIMEN_MOD

                ,STATUS

                ,STATUS_CD

                ,UNIT_NBR

                ,VAR_PRC_1

                ,WORKLOAD_FLAG

                ,APPROV_TECH_ID

                ,APPROV_TECH_NAME

                ,REPORTED_TO

                ,RESULT_TECH_ID

                ,NOTICE_CD

                ,NOTICE_DESC

                ,RESULT_TECH_NAME

                ,PANIC_DT

                ,PANIC_TM

                ,B.ABNORMAL_FLAG

                ,DOC_NBR

                ,EXTERNAL_INTERNAL

                ,F.RESULT_VALUE

                ,SPEC_PROC

                ,UNITS



        FROM    LG_TEST_INFO A,

                LG_ABNORMAL_FLAGS B,

                LG_ACCN_DATE_INDEX C,

                LG_MASTER_ACCN D,

                LG_PANIC_VALUES E,

                LG_RESULTS F


        WHERE   A.LAB_DPT=D.PERFORMING_DPT AND

                A.TEST_CD=B.TEST_CD AND
```

```
B.ACCN=C.ACCN AND
B.FAC=C.FAC AND
B.RES_NBR=E.RES_NBR AND
B.TEST_CD=D.TEST_CD AND
C.ACCN=D.ACCN AND
C.FAC=D.FAC AND
D.TEST_CD=E.TEST_CD AND
D.ACCN=E.ACCN AND
D.FAC=E.FAC AND
E.FAC=F.FAC AND
E.ACCN=F.ACCN AND
E.TEST_CD=F.TEST_CD
```

V_ADMINISTRATIVE_DATA_VIEW

SAMPLE VIEW DESCRIPTION

Query Name:QLV_ADMINISTRATIVE_VIEW

View Name:V_ADMINISTRATIVE_DATA_VIEW

Description:

This query creates a view containing selected columns from accession tables for administrative reporting. Included are columns from LG_ACCN_TRACKING, LG_COMMENTS, and LG_RESULTING_IDS. LG_ACCN_DATE_INDEX is included in the view to allow limiting the database search to an accession date range. Selected columns from LG_TEST_INFO and LG_MASTER_ACCN have been included to provide the needed test and accession demographic information.

This view can be used for creating Quality Assurance and/or Administrative reports. Examples include a list of all accessions that were processed as Bad Specimens, a list of accessions ordered for a particular ordering diagnosis, or a list of accessions that were resulted multiple times.

Notes:

As with any report accessing the result database, always use a limited date range.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QLV_ADMINISTRATIVE_VIEW          Routine:
       Printed: 08/03/91 at 11:13 AM
  Description: Administrative information for Lab tests
    Last edit: 07/09/91 at 12:39 PM by DBA
Last compile: 07/05/91 at 3:54 PM

SQL Text
========


CREATE VIEW V_ADMINISTRATIVE_DATA_VIEW AS

SELECT  ACCN_DATE,
        FAC,
        ACCN,
        ACCN_DT_TM,
        ACCN_NAME,
        REJEC_DT_TM,
        REJEC_NAME,
        CANCEL_DT_TM,
        CANCEL_NAME,
        CHARGE_DT_TM,
        COLLECT_DT_TM,
        COLLECT_NAME,
        COMPLETED_NAME,
        COMPLETE_DT_TM,
        CREDIT_DT_TM,
        CREDIT_NAME,
        FIRST_PARTIAL_NAME,
        FRST_PART_DT_TM,
        ORDER_DT_TM,
        ORDER_NAME,
        REQUEST_DT_TM,
        REVIEW_DT_TM,
        REVIEW_NAME,
        SENDOUT_DT_TM,
        SENDOUT_NAME,
        SENDOUT_REQ_NBR,
        TRANSPORT_NAME,
        TRANSPORT_REC_NAME,
        TRANS_DT_TM,
```

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```
TRAN_REC_DT_TM,
ACCN_COMMENT,
REJEC_REASON,
CANCEL_REASON,
CREDIT_REASON,
ORDER_COMMENT,
REVIEW_COMMENT,
SENDOUT_COMMENT,
TRANSPORT_COMMENT,
UNCOLLECTED_REASON,
ARCHIVE_DATE,
BED,
CASE_NBR,
COLLECT_PERIOD,
CURR_LOC,
INP_OP_IND,
NPOOLS,
ORDERING_CATG,
ORDERING_DPT,
ORDERING_PHY_NAME,
ORDER_DIAGNOSIS,
ORDER_PRIORITY,
PAT_ACCT_NBR,
PAT_BIRTHDATE,
PAT_NAME,
PAT_SEX,
PAT_TYPE,
PERFORMING_DPT,
PERFORMING_TEST_CD,
PERFORM_TEST_NAME,
ROOM_AREA,
SECTION_NAME,
SENDOUT_LAB,
SPECIMEN,
STATION,
STATUS,
TEST_CD,
TEST_NAME,
UNIT_NBR,
VAR_PRC_1,
NO_TIMES_RES,
TECH_NAME,
```

```
                    CHRG_RESULT,
                    HIS_CARDFILE,
                    MAX_SPEC_AGE,
                    SHORT_NAME,
                    TEST_TYPE

        FROM    LG_ACCN_DATE_INDEX A,
                    LG_ACCN_TRACKING B,
                    LG_COMMENTS C,
                    LG_MASTER_ACCN D,
                    LG_RESULTING_IDS E,
                    LG_TEST_INFO F

        WHERE   A.ACCN=B.ACCN AND
                    A.FAC=B.FAC AND
                    B.ACCN=C.ACCN AND
                    B.FAC=C.FAC AND
                    B.TEST_CD=C.TEST_CD AND
                    C.ACCN=D.ACCN AND
                    C.FAC=D.FAC AND
                    C.TEST_CD=D.TEST_CD AND
                    D.ACCN=E.ACCN AND
                    D.FAC=E.FAC AND
                    D.TEST_CD=E.TEST_CODE AND
                    E.TEST_CODE=F.TEST_CD AND
                    D.ORDERING_DPT=F.LAB_DPT

        End>
```

V_ADV_MICRO_ORGS_SENS

SAMPLE VIEW DESCRIPTION

Query Name: QLV_ADV_MICRO

View Name: V_ADV_MICRO_ORGS_SENS

Description:

This query creates a view containing the organism and sensitivity information for a culture (accession) using LM_MICRO_ORG_REP AND LM_SENS_DETAIL. Selected columns from LG_MASTER_ACCN and LG_TEST_INFO are included to provide test type, accession demographic information, and some patient demographic information. LG_ACCN_DATE_INDEX was included in the view to allow limiting the database search to an accession date range. This query demonstrates the method of selecting columns from several tables to produce a logical data set.

This view can be used for creating reports of selected organisms and/or sensitivities for infection control or other research and quality assurance purposes.

Notes:

As with any report accessing the result database, always use a limited date range.

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SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QLV_ADV_MICRO                    Routine:
      Printed: 08/03/91 at 11:14 AM
 Description: Organism and Sensitivity Info - Advanced Micro
    Last edit: 07/10/91 at 11:07 AM by DBA


SQL Text
========


CREATE VIEW V_ADV_MICRO_ORGS_SENS AS


SELECT  ACCN,
        FAC,
        ACCN_DATE,
        BED,
        INP_OP_IND,
        NPOOLS,
        ORDER_DIAGNOSIS,
        ORDER_DIAGNOSIS_CD,
        ORDER_PRIORITY,
        PAT_ACCT_NBR,
        PAT_BIRTHDATE,
        PAT_NAME,
        PAT_SEX,
        PAT_TYPE,
        ROOM_AREA,
        SPECIMEN,
        SPECIMEN_CD,
        STATION,
        STATUS,
        TEST_CD,
        TEST_NAME,
        UNIT_NBR,
        MASTER_TEST_CD,
        SHORT_NAME,
        TEST_TYPE,
        ORG_NAME,
        ORG_NBR,
        AB_CD,
        ANTIBIOTIC,
        KB,
```

```
           MBC,

           MBC_V,

           MIC,

           MIC_V,

           NKB,

           NKB_V


   FROM    LG_ACCN_DATE_INDEX A,

           LG_MASTER_ACCN B,

           LG_TEST_INFO C,

           LM_MICRO_ORG_REP D,

           LM_SENS_DETAIL E


   WHERE   A.ACCN=B.ACCN AND

           A.FAC=B.FAC AND

           B.ACCN=D.ACCN AND

           B.FAC=D.FAC AND

           B.TEST_CD=C.TEST_CD AND

           B.TEST_NAME=C.TEST_NAME AND

           B.PERFORMING_DPT=C.LAB_DPT AND

           C.TEST_CD=D.TEST_CD AND

           C.TEST_NAME=D.TEST_NAME AND

           D.ACCN=E.ACCN AND

           D.FAC=E.FAC AND

           D.TEST_CD =E.TEST_CD AND

           D.ORG_NBR=E.ORG_NBR

   End>
```

V_CLINICAL_VIEW_SURG_PATH

SAMPLE VIEW DESCRIPTION

Query Name:QLV_CLINICAL_VIEW_SURG_PATH

View Name:V_CLINICAL_VIEW_SURG_PATH

Description:

This query creates a view containing the histotech processing information (LS_HISTO_BLOCKS) and result information (LG_RESULTS). Selected columns from LG_MASTER_ACCN and LG_TEST_INFO are included to provide test type, accession demographic information, and some patient demographic information. LG_ACCN_DATE_INDEX is included in the view to allow limiting the database search to an accession date range. This query demonstrates the method of selecting columns from several tables to produce a logical data set.

This view can be used for creating reports used in the Pathology laboratory such as a master log, searching for a particular diagnosis and other quality assurance monitors.

Notes:

As with any report accessing the result database, always use a limited date range.

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SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QLV_CLINICAL_VIEW_SURG_PATH          Routine:
      Printed: 08/03/91 at 11:14 AM
  Description: Clinical Results Info for Surgical Pathology Tests
    Last edit: 07/10/91 at 12:57 PM by DBA


SQL Text
========


CREATE VIEW V_CLINICAL_VIEW_SURG_PATH AS


SELECT  ACCN,
        ACCN_DATE,
        FAC,
        BED,
        CASE_NBR,
        INP_OP_IND,
        NPOOLS,
        ORDERING_PHY_NAME,
        ORDER_DIAGNOSIS,
        ORDER_DIAGNOSIS_CD,
        PAT_ACCT_NBR,
        PAT_BIRTHDATE,
        PAT_NAME,
        PAT_SEX,
        PAT_TYPE,
        ROOM_AREA,
        STATION,
        STATUS,
        TEST_CD,
        TEST_NAME,
        UNIT_NBR,
        VAR_PRC_1,
        RESULT_NAME,
        RESULT_VALUE,
        HIS_CARDFILE,
        SHORT_NAME,
        TEST_TYPE,
        BLOCK_ID,
        CASE_BLOCK,
        NBR_REPLICATES,
```

```
                NBR_SLIDES,
                PROCESS,
                PROCESSED,
                SPECIMEN


        FROM    LG_ACCN_DATE_INDEX A,
                LG_MASTER_ACCN B,
                LG_RESULTS C,
                LG_TEST_INFO D,
                LS_HISTO_BLOCKS E



        WHERE   A.ACCN=B.ACCN AND
                A.FAC=B.FAC AND
                B.ACCN=C.ACCN AND
                B.FAC=C.FAC AND
                B.PERFORMING_DPT=D.LAB_DPT AND
                B.TEST_NAME=C.TEST_NAME AND
                B.TEST_CD=C.TEST_CD AND
                C.ACCN=E.ACCN AND
                C.FAC=E.FAC AND
                C.TEST_NAME=D.TEST_NAME AND
                C.TEST_CD=D.TEST_CD AND
                D.TEST_CD=E.TEST_CD AND
                B.CASE_NBR=E.CASE_NBR


        End>
```

V_LAB_INCOMPL_STAT_TESTS

SAMPLE VIEW DESCRIPTION

Query Name:QLV_LAB_INCOMPL_STAT_TEST_VIEW

View Name:V_LAB_INCOMPL_STAT_TESTS

Description:

This query creates a view containing selected columns from LG_INC_MASTER for accessions with incomplete test results and an ordering priority of STAT.

This view can be used for creating Quality Assurance and/or Administrative reports. Examples include a list of all accessions ordered STAT that have incomplete test results.

Notes:

The current VIEW is limited to accessions with an ordering priority of STAT. This can be changed to include all accessions with incomplete test results.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QLV_LAB_INCOMPL_STAT_TEST_VIEW          Routine:
       Printed: 08/03/91 at 11:13 AM
  Description: View of incomplete STAT Lab tests
     Last edit: 07/09/91 at 12:39 PM by DBA
Last compile: 07/05/91 at 3:54 PM
SQL Text
========
-- This query will list the STAT Lab Tests that are Incomplete
CREATE VIEW V_LAB_INCOMPL_STAT_TESTS

(LAB_DPT
 ,SECTION_CD
 ,TEST_CD
 ,TEST_NAME
 ,INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,STATUS
 ,ORDER_PRIORITY_CD
 ,ACCN
 ,ACCN_DT_TM)

AS

SELECT    LAB_DPT
 ,SECTION_CD
 ,TEST_CD
 ,TEST_NAME
 ,INTN
 ,AN
 ,UNIT_NBR
 ,PAT_NAME
 ,STATUS
 ,ORDER_PRIORITY_CD
 ,ACCN
 ,ACCN_DT_TM

FROM     LG_INC_MASTER
WHERE   ORDER_PRIORITY_CD = 'STAT'
```

V_ACCESSION_INFO

SAMPLE VIEW DESCRIPTION

Query Name: QLV_ACCESSION_INFO_VIEW

View Name: V_ACCESSION_INFO

Description:

This query creates a view containing selected columns from accession tables for administrative reporting. Included are columns from LG_ACCN_TRACKING and LG_MASTER_ACCN. LG_ACCN_DATE_INDEX is included in the view to allow limiting the database search to an accession date range.

This view can be used for creating Quality Assurance and/or Administrative reports. Examples include a list of all accessions from last week that were ordered by a given physician, a list of accessions with a particular test code.

Notes:

The current VIEW is limited to last week's accessions. The date range maybe changed.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QLV_ACCESSION_INFO_VIEW          Routine:
      Printed: 08/03/91 at 11:13 AM
  Description: View of Last week's accessions
    Last edit: 07/09/91 at 12:39 PM by DBA
Last compile: 07/05/91 at 3:54 PM

SQL Text
========


-- This query creates a VIEW of the information for the last
-- week's accessions

CREATE VIEW  V_ACCESSION_INFO
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,NRSE_STN
 ,INP_OP_IND
 ,ACCN
 ,ACCN_DATE
 ,TEST_CD
 ,TEST_NAME
 ,SPECIMEN
 ,SECTION_CD
 ,SECTION_NAME
 ,STATUS
 ,ORDERING_PHY_CD
 ,ORDERING_PHY_NAME
 ,ORDER_PRIORITY
 ,ACCN_DT_TM
 ,ORDER_DT_TM
 ,COLLECT_DT_TM
,COMPLETE_DT_TM)

AS

SELECT   B.INTN
,B.AN
,B.PAT_ACCT_NBR
```

```
             ,B.PAT_NAME

             ,B.STATION

             ,B.INP_OP_IND

             ,B.ACCN

             ,A.ACCN_DATE

             ,B.TEST_CD

             ,B.TEST_NAME

             ,B.SPECIMEN

             ,B.SECTION_CD

             ,B.SECTION_NAME

             ,B.STATUS

             ,B.ORDERING_PHY_CD

             ,B.ORDERING_PHY_NAME

             ,B.ORDER_PRIORITY

             ,B.TRACK_LINK@ACCN_DT_TM

             ,B.TRACK_LINK@ORDER_DT_TM

             ,B.TRACK_LINK@COLLECT_DT_TM

             ,B.TRACK_LINK@COMPLETE_DT_TM


     FROM    LG_ACCN_DATE_INDEX AS A
             ,LG_MASTER_ACCN AS B


     WHERE   A.ACCN_DATE BETWEEN (TODAY - 7) AND (TODAY - 1)
        AND  B.ACCN = A.ACCN
        AND  B.TRACK_LINK@ACCN_DT BETWEEN (TODAY-7) AND (TODAY-1)
```

SAMPLE QUERIES, DESCRIPTIONS, RESULTS

List of Incomplete Laboratory Work

QUERY DESCRIPTION

Report Name: List of Incomplete Laboratory Work

Query Name: QLG_INCOMPLETE_REPORT

Selection Criteria: Sections to omit from report

Sort(s): Patient Name

Description:

This report provides a list of incomplete laboratory work for each patient. Work from all laboratory sections can be included in one report. Three sections can be omitted from the report. This management report includes the test priority and can be used to evaluate incomplete work at the department level.

This sample query demonstrates how to produce a 132 column/character report and how to omit up to three sections from the report using prompts. In addition, using a special function, only the first numberpool is printed even when there are multiples. This query is also an example of how to sort the report by specified criteria.

Notes:

This report is not intended to replace the use of the Incomplete Work report available online by laboratory section.

SAMPLE QUERY

```
   Query Name: QLG_INCOMPLETE_REPORT              Routine:
        Printed: 04/15/91 at 1:02 PM
 Description: List of incomplete laboratory work
     Last edit: 04/09/91 at 7:41 AM by DBA
Last compile: 04/09/91 at 7:42 AM
```

SQL Text

```
--  This query produces an incomplete list of Lab tests sorted by
--  patient. Three sections can omitted from the report.


SET     RMARGIN = 132

READ    :XSECT1 CHARACTER HEADING 'ENTER FIRST SECTION TO OMIT'
READ    :XSECT2 CHARACTER HEADING 'ENTER SECOND SECTION TO OMIT'
READ    :XSECT3 CHARACTER HEADING 'ENTER THIRD SECTION TO OMIT'

SELECT  PAT_NAME HEADING 'PATIENT NAME'LEFT 30,
        ACCN HEADING 'ACCN #' LEFT 9,
        ORDER_PRIORITY HEADING 'ORDER|PRIORITY' CENTER 8,
        STATUS HEADING 'STATUS' CENTER 10,
        ACCN_DT_TM HEADING 'ACCN DATE/TIME' CENTER 14,
        SECTION_CD_KEY  HEADING 'SECTION' CENTER 7,
        TEST_NAME HEADING 'TEST NAME' LEFT 30,
        PIECE (NPOOLS,'/',1) HEADING 'NUMBER|POOL' LEFT 6

FROM    LG_INC_MASTER I,
        LG_MASTER_ACCN M

WHERE   I.TEST_CD = M.TEST_CD AND
        I.ACCN = M.ACCN AND
        NOT (SECTION_CD_KEY IN (:XSECT1, :XSECT2, :XSECT3))

ORDER BY PAT_NAME

HEADER WRITE  'LABORATORY  INCOMPLETE  LIST' CENTER 132
       WRITE 'Printed on ' |TODAY| ' at ' |NOW| CENTER 132


End>
```

Figure 7.1 List of Incomplete Laboratory Work

```
                              LABORATORY   INCOMPLETE   LIST
                              Printed on 04/23/91 at 5:41 PM


                        ORDER                                                        NUMBER
PATIENT NAME            ACCN #   PRIORITY    STATUS     ACCN DATE/TIME   SECTION   TEST NAME                          POOL
---------------------------------------------------------------------------------------------------------------------
ANDREWS,ANDY            1111     Routine    Spec Recd   04/01/91 1503    BBL       ANTIBODY SCREEN
BOUDENS,ANN             1262     Today       Partial    02/04/91 1159    BBL       CROSSMATCH BLOOD 8 UNITS
BROWN,LEE              1260     Today      Spec Recd   02/04/91 1150    CHE       GLUCOSE FASTING                    CHEM39
BROWN,LEE              1542     Routine    Spec Recd   04/05/91 1446    CYT       SURG PATH GROSS/MICRO              AU29
BROWN,LEE              1095     Today       Partial    12/04/90 1036    HEM       CBC W DIFF                         CHEM3
BROWN,LEE              1260     Today      Spec Recd   02/04/91 1150    HEM       CBC W DIFF                         CHEM39
BROWN,LEE              1261     Pre-Op     Spec Recd   02/04/91 1226    SPT       GROSS AND MICRO                    SP6
BROWN,LEE              1542     Routine    Spec Recd   04/05/91 1446    SPT       SURG PATH GROSS/MICRO              AU29
BROWN,LEE              1577     Today      Spec Recd   04/10/91 1138    SPT       GROSS AND MICRO
ELBERT,CHARLIE         1227     STAT       Spec Recd   01/29/91 0927    CHE       GLUCOSE RANDOM                     CHEM29
ELBERT,CHARLIE         1229     STAT        Partial    01/29/91 0937    CHE       GLUCOSE RANDOM                     CHEM31
ELBERT,CHARLIE         1230     STAT       Spec Recd   01/29/91 0937    CHE       GLUCOSE (AM POST PRANDIAL)         CHEM32
ELBERT,CHARLIE         1233     Routine     Partial    01/29/91 1421    CHE       GLUCOSE TOLERANCE 2 HR             CHEM35
ELBERT,CHARLIE         1250     Today      Spec Recd   02/01/91 0914    CHE       ELECTROLYTES
ELBERT,CHARLIE         1277     Today      Spec Recd   02/07/91 0926    CHE       ELECTROLYTES/24                    CHEM47
ELBERT,CHARLIE         1277     Today      Spec Recd   02/07/91 0926    CHE       GGPT(GGT)                          CHEM47
ELBERT,CHARLIE         1277     Today      Spec Recd   02/07/91 0926    CHE       URIC ACID SERUM                    CHEM47
ELBERT,CHARLIE         1298     Today       Partial    02/25/91 1405    CHE       ELECTROLYTES                       CHEM52
ELBERT,CHARLIE         1371     Routine    Spec Recd   03/25/91 1904    CHE       ELECTROLYTES
End (271/559)>
```

Laboratory Order Utilization Report by Order Category

QUERY DESCRIPTION

Report Name:Laboratory Order Utilization Report by Order Category

Query Name:QLG_ORDER_UTIL

Selection Criteria: Facility

                              Accession Date Range

Sort(s):   Section

           Test Code

Description:

This report tabulates the number of orders by category for a selected facility and accession date range. It is sorted by section and test to provide the following information: total orders, number by ordering category, and percentage by ordering category. Section totals are printed at the end of each section. This report would be used to evaluate ordering patterns for the laboratory.

This sample query demonstrates how to define the facility and accession date range using prompts. The format of the report header and the column headers have been defined using event block processing. This query uses numeric functions to count, sum, and perform other calculations. Special functions have been used to print section totals lines and to center the data within the column. An "End of Report" message also prints.

SAMPLE QUERY

```
  Query Name: QLG_ORDER_UTIL                        Routine:
      Printed: 04/15/91 at 1:02 PM
  Description: LAB ORDER UTILIZATION BY ORDER CATEGORY
    Last edit: 04/06/91 at 4:41 PM by DBA
Last compile: 04/06/91 at 4:42 PM
```

SQL Text

```
-- Laboratory Order Utilization Report By Category ordered by section
-- and test code.

READ    :XFAC CHARACTER(1) HEADING 'Enter Facility Code',
        :XBD DATE HEADING 'Enter Begin Accession Date',
        :XED DATE HEADING 'Enter End Accession Date'


SELECT  NULL


FROM    LG_ACCN_DATE_INDEX A,
        LG_MASTER_ACCN M


WHERE   :XFAC = A.FAC AND
        ACCN_DATE BETWEEN :XBD AND :XED AND
        A.FAC = M.FAC AND
        A.ACCN = M.ACCN


GROUP BY SECTION_NAME, TEST_CD


ORDER BY SECTION_NAME


HEADER
        WRITE 'Laboratory Order Category Utilization Report'
        CENTER 79,
                'For Accessions from '|:XBD|' to '|:XED| CENTER 79


DETAIL
WRITE   SECTION_NAME HEADING 'SECTION' CHANGED SKIP 2,
        TEST_CD HEADING 'CODE' CHANGED RIGHT 5 SKIP 1,
        TEST_NAME HEADING 'TEST NAME' CHANGED COLUMN 7 LEFT 30,
        -- The following section counts the number of orders using
        -- each order category per test code.
        COUNT (WHEN ORDERING_CATG = '*STAT*' THEN 1) AS STAT
        COLUMN 40 CENTER 10,
        COUNT (WHEN ORDERING_CATG = '*ASAP*' THEN 1) AS ASAP
```

```
         COLUMN 50 CENTER  10,

         COUNT (WHEN ORDERING_CATG = 'Routine' THEN 1) AS ROUTINE

         COLUMN 60 CENTER 10,

         COUNT (*) AS TOTAL COLUMN 70 CENTER 5,

         -- The following section calculates the percentage of ordered

         -- category utilized per test code.

         '('|STAT*100/TOTAL|')' HEADING '%' COLUMN 40 CENTER 10,

         '('|ASAP*100/TOTAL|')' HEADING '%' COLUMN 50 CENTER 10,

         '('|ROUTINE*100/TOTAL|')' HEADING '%' COLUMN 60 CENTER 10

   --The following aggregates the data to produce the section totals
BREAK AFTER 1

         SKIP 1

         WRITE  '* Section Totals for '|SECTION_NAME|' *',

                SUM(STAT BY 1) COLUMN 40 CENTER 10,

                SUM(ASAP BY 1) COLUMN 50 CENTER 10,

                SUM(ROUTINE BY 1) COLUMN 60 CENTER 10,

                SUM(TOTAL BY 1) COLUMN 70 CENTER 5,

                '('|(SUM(STAT BY 1))*100/(SUM(TOTAL BY 1))|')'

                   COLUMN 40 CENTER 10,

                '('|(SUM(ASAP BY 1))*100/(SUM(TOTAL BY 1))|')'

                   COLUMN 50 CENTER 10,

                '('|(SUM(ROUTINE BY 1))*100/(SUM(TOTAL BY 1))|')'

                   COLUMN 60 CENTER 10

FINAL

         SKIP 2

         WRITE 'End of Report' CENTER 79

End>
```

Figure 7.2 Laboratory Order Category Utilization Report

```
                 Laboratory Order Category Utilization Report
                     For Accessions from 04/01/91 to 04/30/91

SECTION
 CODE   TEST NAME                        STAT     ASAP    ROUTINE   TOTAL
                                          %        %        %
--------------------------------------------------------------------------------
Blood Bank
 4732  ANTIBODY TITER                      1        4        1        6
                                        (16.67)  (66.67)  (16.67)

* Section Totals for Blood Bank *          1        4        1        6
                                        (16.67)  (66.67)  (16.67)

Chemistry
 5384  TEGRETOL                            3        2        2        7
                                        (42.86)  (28.57)  (28.57)

 5074  CALCIUM URINE                       1        3        2        6
                                        (16.67)  (50.00)  (33.33)

 5001  ABL III ON LINE                                       1        1
                                         (0.00)   (0.00)  (100.00)

 5004  ACID PHOSPHATASE                    3        2        2        7
                                        (42.86)  (28.57)  (28.57)

 5166  GLUCOSE FASTING                     2                          2
                                        (100.00)  (0.00)   (0.00)

 5006  A/G RATIO                           1                          1
                                        (100.00)  (0.00)   (0.00)

* Section Totals for Chemistry *          10        7        7       24
                                        (41.67)  (29.17)  (29.17)

                             End of Report
End (51/104)>
```

Panic Value Report

QUERY DESCRIPTION

Report Name: Panic Value Report

Query Name:QLG_PANIC_VALUE_REPORT

Selection Criteria: Date Range

    Section Code

Sort(s): Accession Number

Description:

This report contains a list of accessions that have had panic values reported. It includes the accession number, test, result name, result value, when the result was reported, and to whom and by whom. This report can be used to review exception reporting.

This sample query demonstrates how to produce a 132 column/character report. In addition, the query demonstrates the use of prompts for input of the range of accession dates and for a specific section and then using that input to limit the data reported. Functions to limit the length of data printed are demonstrated as well as the feature to access data not contained in the primary tables - Foreign keys.

Notes:

Specifying a large date range (several months) could impact performance.

SAMPLE QUERY

```
   Query Name: QLG_PANIC_VALUE_REPORT          Routine:
        Printed: 04/15/91 at 1:03 PM
   Description: Panic value report by section
     Last edit: 04/09/91 at 4:41 PM by DBA
Last compile: 04/09/91 at 4:52 PM


SQL Text

-- This report is for all panic values for an accession date range
-- for a user specified laboratory section.

READ    :XSDT DATE HEADING 'Enter starting accession date--'

READ    :XEDT DATE HEADING 'Enter ending accession date--'

READ    :XSEC CHARACTER (4) HEADING 'Enter section code --'

SET     RMARGIN=132

SELECT  ACCN CHANGED HEADING 'Accn #' COLUMN 1 LEFT 9,
        TEST_NAME CHANGED HEADING 'Test' COLUMN 10 LEFT 19,
        RESULT_NAME HEADING 'Result' COLUMN 30 LEFT 19,
        RESULT_VALUE HEADING 'Panic Result' COLUMN 50 CENTER 14,
        PANIC_LINK@PANIC_DT_TM HEADING 'Reported' COLUMN 65 CENTER
        14,
        EXTRACT(PANIC_LINK@REPORTED_TO,1,24) HEADING 'Reported to'
        COLUMN 80  LEFT  24,
        EXTRACT(PANIC_LINK@RESULT_TECH_NAME,1,24) HEADING
        'Reported by' COLUMN  105  LEFT  24

FROM    LG_ACCN_DATE_INDEX D,
        LG_RESULTS R

WHERE   R.FAC=D.FAC AND
        D.ACCN=R.ACCN AND
        PANIC_LINK@TEST_CD=R.TEST_CD AND
        PANIC_LINK@RES_NBR=R.RES_NBR AND
        D.ACCN_DATE BETWEEN :XSDT AND :XEDT AND
        PANIC_LINK@RESULT_VALUE IS NOT NULL AND
        :XSEC=MAST_ACCN_LINK@SECTION_CD
```

```
HEADER  WRITE 'Panic Values Reported for '|
        MAST_ACCN_LINK@SECTION_NAME|
        ' Section'  CENTER  132  SKIP
        WRITE 'Beginning '| :XSDT | ' through ' | :XEDT CENTER 132
        SKIP 2


End>
```

Figure 7.3 Panic Value Report

```
                         Panic Values Reported for Chemistry II Section

                           Beginning 01/01/91 through 03/28/91

Accn #   Test              Result           Panic Result   Reported      Reported to              Reported by
-------------------------------------------------------------------------------------------------------------
 1225    BUN AND ELECTROLYTE Sodium             200        01/29/91 1416  ASD                      Mitchell,Jane
                           Potassium            8.2        01/29/91 1416  ASD                      Mitchell,Jane
 1259    ELECTROLYTES      Potassium            6.5        02/04/91 1152  JJ                       Jones,John
 1276    POTASSIUM SERUM   Potassium            101        02/06/91 1225  JB                       Barrett,Jack
 1277    ELECTROLYTES      Anion Gap            70.5       02/07/91 1033  JB                       Barrett,Jack
 1283    ELECTROLYTES      Anion Gap           -15.5       02/12/91 1448  JB                       Barrett,Jack
 1285    ELECTROLYTES/24   Anion Gap            50         02/12/91 1618  JB                       Barrett,Jack
 1286    ELECTROLYTES      Anion Gap           -16.4       02/12/91 1649  JB                       Barrett,Jack
 1298    ELECTROLYTES      Anion Gap            58.5       02/27/91 1236  JACK BARRETT             Barrett,Jack
         ELECTROLYTES/24   Anion Gap            58.5       02/27/91 1236  JACK BARRETT             Barrett,Jack
 1308    ELECTROLYTES      HCO3                 56         02/28/91 1107  NANCY                    Mitchell,Jane
                           Anion Gap           -41.5       02/28/91 1107  NANCY                    Mitchell,Jane
 1309    ELECTROLYTES      Potassium            8.5        02/28/91 1108  THESE WERE REPORTED TO   Mitchell,Jane
                           Anion Gap            -4.5       02/28/91 1108  THESE WERE REPORTED TO   Mitchell,Jane
 1310    ELECTROLYTES      Potassium            7.5        02/28/91 1108  REPORTED TO NURSE JONES  Mitchell,Jane
                           HCO3                 56         02/28/91 1108  REPORTED TO NURSE JONES  Mitchell,Jane
                           Anion Gap           -15.5       02/28/91 1108  REPORTED TO NURSE JONES  Mitchell,Jane
 1311    ELECTROLYTES      Anion Gap           -0.5        02/28/91 1109  WARD CLERK               Mitchell,Jane
 1320    ELECTROLYTES      Anion Gap            66.5       03/05/91 1435  RWB                      Brown,Richard W
 1352    ELECTROLYTES      Anion Gap            62.5       03/18/91 1711  RWB                      Brown,Richard W
 1372    ELECTROLYTES      Anion Gap            71.5       03/26/91 1048  JB                       Barrett,Jack
End (21/1340)>
```

Corrected Results Listing

QUERY DESCRIPTION

Report Name: Corrected Results Listing

Query Name:QLG_CORRECTED_REPORTS

Selection Criteria: Date Range

Sort(s): Patient Name

Description:

This sample query produces a report for a specified date range containing a list of patients with the accessions and tests that have had results corrected. Columns on the report include patient name, unit number, accession number, test name, corrected date and time, and the name of the tech who corrected the report. If a test has been corrected more than one time, the report includes data for all corrections. This report can be used as a quality assurance tool in monitoring the results that were corrected per patient.

This sample query demonstrates how to produce a 132 column/character report. In addition, the query demonstrates the use of prompts for defining a date range of accessions to search. Special functions are used to format the header of the report. Functions to limit the length of data printed for each column are used as well as the method for defining column placement.

Notes:

Specifying a large date range (several months) could impact system performance.

SAMPLE QUERY

```
   Query Name: QLG_CORRECTED_REPORTS              Routine:
        Printed: 04/15/91 at 1:02 PM
   Description: Corrected Reports per patient
 Last compile: 04/05/91 at 4:48 PM
```

SQL Text

```
--  This query lists the patients, accessions and tests that were
--  corrected for a specific date range.

READ    :XSDT DATE HEADING 'Enter starting accession date --'
READ    :XEDT DATE HEADING 'Enter ending accession date --'

SET RMARGIN=132

SELECT  EXTRACT(MAST_ACCN_LINK@PAT_NAME,1,20) CHANGED HEADING
        'Patient' COLUMN 1 LEFT 20 SKIP 2,
        EXTRACT(MAST_ACCN_LINK@UNIT_NBR,1,12) CHANGED HEADING
        'Unit #' COLUMN 22 CENTER 12,
        ACCN CHANGED HEADING 'Accn #' COLUMN 34 RIGHT 12,
        MAST_ACCN_LINK@TEST_NAME HEADING 'Test Name' COLUMN 57
        LEFT 30,
        CORRECTED_DT_TM HEADING 'Corrected|date&time' COLUMN 88
        LEFT 14,
        EXTRACT(CORRECTED_NAME,1,20) HEADING 'Corrected by'
        COLUMN 103 RIGHT 29

FROM    LG_ACCN_DATE_INDEX D,
        LG_COR_RESULT_MAST M

WHERE   D.ACCN_DATE BETWEEN :XSDT AND :XEDT  AND
        D.FAC=M.FAC AND
        D.ACCN=M.ACCN

ORDER BY MAST_ACCN_LINK@PAT_NAME

HEADER  WRITE 'Patients with corrected reports beginning '
            |:XSDT| ' through '|:XEDT|  CENTER 132
        WRITE 'Printed on '|TODAY| ' at '|NOW CENTER 132 SKIP 2


        End>
```

Figure 7.4 Corrected Results Listing

```
                    Patients with corrected reports beginning 01/01/91 through 04/23/91

                                     Printed on 04/23/91 at 5:48 PM

                                                                     Corrected
Patient                Unit #          Accn #       Test Name        date&time               Corrected by
----------------------------------------------------------------------------------------------------------------
BARNES,CHARLIE P      A0000000507      1139         CBC W DIFF       01/11/91 1006           Hill,Robert

                                                    CBC W DIFF       02/01/91 1410           Jones,Bonnie

                                       1146         CBC W DIFF       01/14/91 1042           Meadows,Susan

                                                    CBC W DIFF       02/05/91 1631           Miller,Howard

                                       1286         ELECTROLYTES     02/27/91 1119           Miller,Howard

LONG,ANDREA           A0000000552      1157         BUN AND CREATININE 02/01/91 0952         Murphy,Jackie

LONG,JOSEPH           A0000000517      1224         BUN AND ELECTROLYTES 01/29/91 1412       White,Sally

MITCHELL,JANE         A0000000657      1343         GLUCOSE RANDOM   03/18/91 1000           White,Sally

                                       1351         GLUCOSE FASTING  03/18/91 2115           Hayes,J. Michael

                                                    GLUCOSE FASTING  03/18/91 2119           Hayes,J. Michael

                                                    GLUCOSE FASTING  03/19/91 0711           Hayes,J. Michael
```

List of Cultures with Supplemental Reports

QUERY DESCRIPTION

Report Name: List of Cultures with Supplemental Reports

Query Name:QLM_SUPP_REPORTS

Selection Criteria: Date Range

   Facility

Sort(s): Patient Name

Description:

This report contains a list of the Advanced Microbiology accessions that have had Supplemental reports produced. This report could be used as a QA monitor to evaluate why and how often Supplemental reports are generated.

This sample query demonstrates accessing laboratory accessions for a specified date range using prompts and selecting specific completed Advanced Microbiology cultures. In addition, functions are used to define location of the columns, limit the number of characters per column, and define whether the data is left-justified or centered. A report footer is also used in this query.

Notes:

Do not generate this query for a large date range.

SAMPLE QUERY

```
   Query Name: QLM_SUPP_REPORTS                   Routine:
       Printed: 04/15/91 at 1:04 PM
  Description: List of Cultures with Supplemental Reports
     Last edit: 04/08/91 at 5:19 PM by DBA
Last compile: 04/08/91 at 5:14 PM
SQL Text
--  This query produces a list of Advanced Micro accessions that have
--  had Supplemental reports generated.
READ :XBD DATE HEADING 'Enter Beginning Date--'
READ :XED DATE HEADING 'Enter Ending Date--'
READ :XFAC CHARACTER(1) HEADING 'Enter Facility Code--' DEFAULT 'A'
SELECT  ACCN HEADING 'Accn #' RIGHT 8,
        MAST_ACCN_LINK@PAT_NAME HEADING 'Patient Name' CHANGED COLUMN
        10 LEFT  15,
        MAST_ACCN_LINK@UNIT_NBR HEADING 'Unit #' CHANGED COLUMN 27
        LEFT 10,
        MAST_ACCN_LINK@TEST_NAME HEADING 'Test Name' COLUMN 40
        LEFT 15,
        MAST_ACCN_LINK@SPECIMEN HEADING 'Specimen' COLUMN 57
        LEFT 10,
        NBR_SUPPLE HEADING '# Supp' COLUMN 70 CENTER 5

FROM    LG_ACCN_DATE_INDEX A,
        LM_REP_STATUS_SUM S
WHERE   A.ACCN_DATE BETWEEN :XBD AND :XED AND
        FAC=:XFAC AND
        A.FAC=S.FAC AND
        A.ACCN=S.ACCN AND
        MAST_ACCN_LINK@STATUS='Done' AND
        NBR_SUPPLE IS NOT NULL

ORDER BY MAST_ACCN_LINK@PAT_NAME

HEADER
        WRITE 'Supplemental Reports From '|:XBD|' to '|:XED CENTER 79
        WRITE 'Printed on '|TODAY|' at '|NOW| CENTER 79

FINAL
        SKIP
        WRITE 'End of Report' CENTER 79
End>
```

Figure 7.5 List of Cultures with Supplemental Reports

```
                Supplemental Reports From 01/01/91 to 04/23/91
                        Printed on 04/23/91 at 5:48 PM

  Accn #  Patient Name      Unit #          Test Name        Specimen      # Supp
-------------------------------------------------------------------------------
   1268   ZELWINS,ZIGGY     A000000049      CULTURE-AEROBIC  Blood            1
   1296                                     CULTURE-AEROBIC  Blood            2

                                 End of Report
End (2/492)>
```

Positive Cultures

QUERY DESCRIPTION

Report Name: Positive Cultures

Query Name:QLM_POS_CULTS

Selection Criteria: Date Range

Sort(s): Patient Name

Description:

This report contains a list of positive cultures sorted alphabetically by patient name. This report could be used as an Infection Control tool or could be used by the Microbiology laboratory to check for duplicate cultures.

This sample query demonstrates accessing laboratory accessions for a specified date range using prompts and selecting only positive Advanced Microbiology cultures. This query also shows how to set up a 132 column/character report. It also uses special functions to limit the number of characters per column, suppress duplicate information, and define specific column placement.

Notes:

None.

SAMPLE QUERY

```
   Query Name: QLM_POS_CULTS                    Routine:
       Printed: 04/15/91 at 1:03 PM
  Description: List of Positive Advanced Microbiology Cultures
    Last edit: 04/09/91 at 7:55 PM by DBA
Last compile: 04/09/91 at 7:57 PM
```

SQL Text

```
--This query produces a list of all positive cultures for the
--specified date range sorted by patient name.

READ :XBD DATE HEADING 'Enter Beginning Date--'
READ :XED DATE HEADING 'Enter Ending Date--'

SET RMARGIN = 132,DISPLAY_HEADING='NO'

SELECT  NULL

FROM    LG_ACCN_DATE_INDEX A,
        LM_MICRO_ORG_REP O

WHERE   :XBD<=ACCN_DATE AND :XED>=ACCN_DATE AND
        A.FAC=O.FAC AND
        A.ACCN=O.ACCN AND
        MAST_ACCN_LINK@TEST_LINK@TEST_TYPE='AM' AND
        ORG_NAME_DATA IS NOT NULL AND
        ORG_NAME_DATA NOT LIKE '^'

ORDER BY PAT_NAME,ACCN,TEST_CD,ORG_NBR

HEADER
        WRITE 'Positive Cultures From '|:XBD|' to '|:XED CENTER 131
        WRITE 'Printed on '|TODAY|' at '|NOW CENTER 131
        WRITE ''
        WRITE 'Patient Name' COLUMN 1,
              ' Unit #   ' COLUMN 23,
              'Sta' COLUMN 37,
              'Rm' COLUMN 41,
        WRITE 'Accn #' COLUMN 15,
              ' Accn D/T  ' COLUMN 24,
              'Test Name' COLUMN 39,
              'Specimen' COLUMN 61,
```

```
                    'Organism' COLUMN 78


     DETAIL


     BREAK AT 1
             WRITE PAT_NAME COLUMN 1 LEFT 20 SKIP 2,
                   MAST_ACCN_LINK@UNIT_NBR COLUMN 23 LEFT 12,
                   MAST_ACCN_LINK@MED_LINK@STATION COLUMN 37 CENTER  3,
                   MAST_ACCN_LINK@MED_LINK@ROOM_NBR_OR_STATUS COLUMN 41 CENTER 4
     BREAK AT 4
             WRITE ACCN COLUMN 47 LEFT 7,
                   MAST_ACCN_LINK@TRACK_LINK@ACCN_DT_TM COLUMN 24 RIGHT 13,
                   MAST_ACCN_LINK@TEST_NAME COLUMN 39 LEFT 20,
                   MAST_ACCN_LINK@SPECIMEN COLUMN 61 LEFT 15,
                   LAST_ORG_NAME_DATA 78 LEFT 22


     FINAL
             SKIP 2
             WRITE 'End of Report' CENTER 79
     End>
```

Figure 7.6 Positive Cultures

```
                        Positive Cultures From 03/31/96 to 05/30/96
                              Printed on 06/29/96 at 8:49 AM

Patient Name             Unit #         Sta Rm
              Accn #    Accn D/T        Test Name              Specimen       Organism


------------------------------------------------------------------------------------------------------

  TEST,PAT               A000000529     LAA 100
              4320      05/22/96@7:06   CULTURE, URINE         Urine          Org 1


  TEST,GIRL              A000000663     ICU  13
              3418      04/24/96@1:05   CULTURE, SPUTUM        Sputum Expector ANAEROBIC POSITIVE COC


  TEST, GIRL             A000000943       I/P
              3954      05/09/96@9:58   CULTURE, BLOOD         Blood          STAPHYLOCOCCUS SPECIES
              3954      05/09/96@9:58   CULTURE, BLOOD         Blood          STAPHYLOCOCCUS AUREUS


  TEST, JANE             A000000943       I/P
              4018      05/10/96@10:5   CULTURE, BLOOD         Blood          Org 1
              4297      05/20/96@4:43   OVA AND PARASITE EXA   Stool          TAENIA SAGINAIA
              4297      05/20/96@4:43   OVA AND PARASITE EXA   Stool          TAENIA SOLIUM



                            End of Report
End (33/483)>
```

Search by Advanced Microbiology Microcode

QUERY DESCRIPTION

Report Name: Search by Advanced Microbiology Microcode

Query Name: QLM_AM_SEARCH

Selection Criteria: Date Range

                        Advanced Microbiology Microcode

Sort(s): Ordering Location

Description:

This report contains a list of cultures within the specified date range that contain the entered microcode in the organism log(s). This report could be used as a Quality Assurance tool or could be used for research.

This sample query demonstrates accessing laboratory accessions for a specified date range and searching for a specific microcode using prompts. This query demonstrates how to include the entered microcode and its description in the header of the report as well as to limit the search to just the defined microcode. To obtain the information on the report four tables were used along with accessing data from tables other than the primary tables.

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SAMPLE QUERY

```
  Query Name: QLM_AM_SEARCH                        Routine:
     Printed: 04/15/91 at 1:03 PM
 Description: Search by Advanced Microbiology microcode
   Last edit: 04/08/91 at 1:24 PM by DBA
Last compile: 04/08/91 at 4:30 PM
```

SQL Text

```
--This query produces a list of Advanced Microbiology cultures
--containing the defined result in the organism log.  The search
--is based on the microcode for the result.

READ :XBD DATE HEADING 'Enter Beginning Date--'
READ :XED DATE HEADING 'Enter Ending Date--'
READ :XMC CHARACTER(3) HEADING 'Enter microcode to search--'

SELECT  PAT_NAME HEADING 'Patient Name' CHANGED LEFT 12,
        ACCN HEADING 'Accn #' CHANGED COLUMN 14 RIGHT 7,
        MAST_ACCN_LINK@TEST_NAME HEADING 'Test Name' CHANGED
        COLUMN 23 LEFT 15,
        MAST_ACCN_LINK@SPECIMEN HEADING 'Specimen' CHANGED COLUMN 40
        LEFT 10,
        REPORT HEADING 'Report' CHANGED COLUMN 52 LEFT 8,
        ORG_NAME HEADING 'Organism' COLUMN 62 LEFT 15
FROM    LG_ACCN_DATE_INDEX A,
        LM_ORG_LOG L,
        LM_INT_LOG I,
        LM_MICRO_ORG_REP O
WHERE   ACCN_DATE BETWEEN :XBD AND :XED AND
        A.FAC=L.FAC AND
        A.ACCN=L.ACCN AND
        L.FAC=I.FAC AND
        L.ACCN=I.ACCN AND
        L.TEST_CD=I.TEST_CD AND
        L.LOG=I.INT_LOG_NBR AND
        I.FAC=O.FAC AND
        I.ACCN=O.ACCN AND
        I.TEST_CD=O.TEST_CD AND
        O.ORG_NBR=L.ORG_NBR AND
        O.INT_LOG_NBR=L.LOG AND
```

```
                :XMC=MICRO_CD


        ORDER BY MAST_ACCN_LINK@ROOM_AREA


        HEADER
                WRITE 'Organism Log Search' CENTER 79
                WRITE 'For '|:XMC|' - '|MICRO_CD_DESC CENTER 79
                WRITE 'For Period '|:XBD|' to '|:XED CENTER 79
                WRITE 'Printed on '|TODAY|' at '|NOW CENTER 79


        FINAL
                SKIP
                WRITE 'End of Report' CENTER 79


        End>
```

Figure 7.7 Search by Advanced Microbiology Microcode

```
                          Organism Log Search
       For U"} - Beta-lactamase positive, presumpt. Resistence to Penicillin
                        For Period 04/04/91 to 04/04/91
                        Printed on 05/01/91 at 12:05 PM

Patient Name    Accn #  Test Name        Specimen    Report     Organism
--------------------------------------------------------------------------
ZELWINS,ZIGG    1543  CULTURE SPUTUM    Sputum      Prelim 1  STREP PNEUMONIA
                                                    Prelim 2  BRANHAMELLA CAT
TRAVIS,LENORE   1544  CULTURE THROAT    Throat      Prelim 2  HAEMOPHILUS INF
HARRIS,OTTO     1546  CULTURE WOUND D   Skin Bx     Prelim 3  STAPH AUREUS
BARNES,BRIT     1545  CULTURE GENITAL   Cervix      Final     NEISSERIA GONOR


                              End of Report
End (7/51)>
```

List of Histotech Processes

QUERY DESCRIPTION

Report Name: List of Histotech Processes

Query Name:QLS_HISTOWKSHEET

Selection Criteria: Date Range

Sort(s): Case Number

Description:

This report contains information from Histotech Processing that can be used as a daily worksheet for the Histology section. This report contains all histotech processes for a given date range and the status of each process.

This sample query demonstrates accessing laboratory accessions for a specified date range using prompts, and how to produce a 132 column/character report. Special functions are used to limit the number of characters that print for each column and also to specify whether the column is left-justified or centered. The query is an example of how to sort the report by specified criteria.

Notes:

None.

SAMPLE QUERY

```
  Query Name: QLS_HISTOWKSHEET                Routine:
      Printed: 04/15/91 at 1:04 PM
 Description: List of histotech processes for given date range
   Last edit: 04/08/91 at 3:03 PM by DBA
Last compile: 04/08/91 at 3:14 PM
```

SQL Text

```
-- This query is used to produce a list of histotech processes for a
-- given date range.

SET     RMARGIN = 132

READ    :XBD DATE HEADING 'ENTER BEGINNING ACCESSION DATE'
READ    :XED DATE HEADING 'ENTER ENDING ACCESSION DATE'

SELECT  H.CASE_NBR HEADING ' CASE #'LEFT 12,
        ACCN LEFT 12,
        EXTRACT(PAT_NAME,1,20) HEADING 'PATIENT NAME' LEFT 20,
        EXTRACT (SPECIMEN,1,20) HEADING 'SPECIMEN' LEFT 20,
        EXTRACT (PROCESS,1,20) HEADING 'PROCESS' LEFT 20,
        BLOCK_ID HEADING 'BLK#',
        NBR_REPLICATES HEADING 'R',
        NBR_SLIDES HEADING 'SLD' CENTER 3,
        PROCESSED HEADING 'S' CENTER 3

FROM    LS_HISTO_BLOCKS H,
        LG_ACCN_DATE_INDEX A,
        LG_MASTER_ACCN M

WHERE   A.ACCN_DATE BETWEEN :XBD AND :XED AND
        A.FAC = M.FAC AND
        A.ACCN = M.ACCN AND
        M.FAC = H.FAC AND
        M.ACCN = H.ACCN AND
        H.TEST_CD=M.TEST_CD AND
        H.SPECIMEN = M.SPECIMEN
ORDER BY H.CASE_NBR
HEADER  WRITE 'HISTOTECH PROCESSING REPORT' CENTER 132
        WRITE 'BEGINING '|:XBD|  ' THROUGH '|:XED| CENTER 132 SKIP
        WRITE 'Printed on '|TODAY|' at '|NOW| CENTER 132
End>
```

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Figure 7.8 List of Histotech Processes

```
                      HISTOTECH PROCESSING REPORT
                    BEGINING 04/23/91 THROUGH 04/23/91
                      Printed on 04/23/91 at 5:51 PM


 CASE #      ACCN        PATIENT NAME        SPECIMEN        PROCESS           BLK#   R  SLD   S

 ------------------------------------------------------------------------------------------------
 S91-180     1130        SMITH,LEE           Aspirate        Cyto smr, from fluid  A   1   1   YES
 S91-181     1164        BENSON,MARK         Appendix        Cyto smr, from fluid  A   1   2   YES
 S91-181     1164        BENSON,MARK         Appendix        H & E Stain           A   1   1   YES
 S91-181     1164        BENSON,MARK         Appendix        Giemsa Stain          A   1   1   NO
 S91-181     1164        BENSON,MARK         Appendix        H & E Stain           A   1   1   NO
 S91-181     1164        BENSON,MARK         Appendix        Giemsa Stain          B   1   1   NO
 S91-181     1164        BENSON,MARK         Appendix        H & E Stain           B   1   1   NO
 S91-182     1173        ZELWINS,ZIGGY       Aspirate        Cyto smr, from fluid  A   1   1   YES
 S91-183     1261        SMITH,LEE           Pleural         Cyto smr, from fluid  A   1   1   YES
 S91-184     1288        JOHNSON,CAROLE      Bronchial       Cyto smr, from fluid  A   1   1   YES
 S91-184     1288        JOHNSON,CAROLE      Bronchial       FILTER PREPARATION    A   1   1   YES
 S91-185     1289        BROWN,BRITTANY      Aspirate        Cyto smr, from fluid  A   1   2   YES
 S91-185     1289        BROWN,BRITTANY      Aspirate        H & E Stain           A   1   1   YES
```

Specimen Rejection Report

QUERY DESCRIPTION

Report Name: Specimen Rejection Report

Query Name:QLG_SPECIMEN_REJEC_REPORT

Selection Criteria: Facility

                              Department

                              Specimen Rejection Date Range

Sort(s):(Defaults to Reject Date/Time)

Description:

This report displays information concerning all rejected tests for a specified facility, department, and date range. It is sorted by Specimen Rejection Date and Time and provides the following information: Reject date and time, rejected accession number, rejected test code and name, accession number of the automatically reordered test, who rejected the specimen and the reason, and the time between the rejection and when the test was actually recollected.

This report demonstrates how to define a 132 column report searching upon a date/ time range (moment) instead of just date. A "CASE" statement is used within the "SELECT" clause to determine what to print in the "Recollect TAT" field. Within the "CASE" statement is a calculation to convert a DATE/TIME to hours and concatenate "Hrs" to the value. Since there is no sort defined for the report, the report is sorted by how the file is actually stored on disk, which is by REJECT_DATE_TIME, REJEC_ACCN, REJECT_TEST_CD.

Notes:

-   This report is not intended to replace use of the Specimen Rejection report available online through the Special Reports Processor.

-   Once the Retention Period specified by the Retention Parameter option in Specimen Rejection Flags has been surpassed, data is no longer accessible through this table. At that point, all specimen rejection information has to be retrieved using the LG_ACCN_TRACKING table.

SAMPLE QUERY

```
   Query Name: QLG_SPECIMEN_REJEC_REPORT            Routine:
       Printed: 08/21/92 at 10:56 AM
   Description: SPECIMEN REJECTION REPORT
     Last edit: 06/15/92 at 3:28 PM by DBA
Last compile: 06/16/92 at 9:29 AM
SQL Text
--      This query produces a list on rejected specimens sorted by
--      the date and time the specimen was rejected.
SET     RMARGIN=132
READ    :XFAC CHARACTER(1) HEADING 'Enter Facility Code',
        :XDPT CHARACTER(3) HEADING 'Enter Laboratory Department',
        :XBD MOMENT HEADING 'Enter Beginning Date',
        :XED MOMENT HEADING 'Enter Ending Date'
SELECT  REJEC_DT_TM HEADING 'Reject date/time' SKIP 2,
        REJEC_ACCN HEADING 'Rej \#',
        REJEC_TEST_CD HEADING 'Test',
        TEST_NAME HEADING 'Test Name',
        AUTO_ORDER_ACCN HEADING 'RO Accn#' COLUMN 61 DEFAULT  'None',
        REJEC_ID HEADING 'Rejected By',
        REJEC_REASON HEADING 'Reason',
        CASE
                WHEN
        AUTO_ORDER_ACCN IS NULL THEN 'Not Reordered'
                WHEN
        AUTO_ORDER_COLLECT_DT_TM - REJEC_DT_TM >0 THEN
        (AUTO_ORDER_COLLECT_DT_TM - REJEC_DT_TM)/3660|' Hrs'
                ELSE 'Not Collected'
        END
        HEADING 'Recollect TAT' COLUMN 111
FROM    LG_REJEC R,
        LG_TEST_INFO T
WHERE   R.LAB_DPT = T.LAB_DPT AND
        R.REJEC_TEST_CD = T.TEST_CD AND
        :XFAC = FAC AND
        :XDPT = LAB_DPT AND
        REJEC_DT_TM BETWEEN :XBD AND :XED
HEADER  WRITE SYS_NAME CENTER 132
        WRITE 'Specimen Rejection Report sorted by Date/time' CENTER 132
        WRITE 'For '|:XBD|' - '|:XED CENTER 132
End>
```

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Figure 7.9 Specimen Rejection Report

```
                        For 08/11/92@4:00 PM - 08/21/92@4:00 PM

Reject date/time            Rej Accn#     Test   Test Name
                                                          RO Accn#  Rejected By  Reason                    Recollect TAT
-----------------------------------------------------------------------------------------------------------------------
08/12/92@9:42 AM              1496        5136   ELECTROLYTES/24     1726  #13385       TESTING                   Not Collected

08/12/92@9:43 AM              1728        5136   ELECTROLYTES/24     None  #13385       REJECT                    Not Reordered

08/12/92@9:47 AM              1752        5136   ELECTROLYTES/24     1753  #13385       MAX SPEC AGE EXCEEDED! 0.05 Hrs

08/12/92@10:19 AM             1658        5136   ELECTROLYTES/24     1730  #13385       INACTIVE ACCT             Not Collected

08/12/92@10:21 AM             1029        5170   GLUCOSE RANDOM      None  #13385       INACTIVE PT               Not Reordered

08/12/92@3:49 PM              1752        5727   CBC W DIFF          1753  #02157       MAX SPEC AGE EXCEEDED! 0.05 Hrs
                                                                      •
                                                                      •
                                                                      •

End (77/77)>
```

Chapter 8 - STAR PATIENT CARE

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Illustrations

INTRODUCTION

This is the STAR Patient Care section of the *STAR Vista Reporting/SQL Reference Guide*. In the following pages, you can see the new and modified tables that STAR Vista Reporting uses in the STAR Patient Care product.

This section also briefly discusses functions relative to STAR Patient Care. Refer to the *KB_SQL Database Administrator's Guide* for details on creating and modifying tables and functions.

A few sample queries with their descriptions and results are included. Refer to the *KB_SQL Reference Guide* for information on building, modifying, and running queries.

VIEWS

A *view* is a *virtual table* whose information is defined by a user. Views provide major benefits including:

- Security

Users can be given access to the data through views, restricting access to sensitive information.

- Query Simplicity

A view can be created from several tables and be presented to the user as only one table (a virtual table).

- User Simplicity

Views can be tailored to a user's scope or access, defining his/her view of the data.

The EZQ Editor has a limitation of using one table at a time; therefore, views can offer a better variety of information. If your department is using the EZQ Editor more frequently than the SQL Editor, you may find it helpful to create more views. When the EZQ Editor asks for a table name to be entered, you can enter the name of a view for diversified reporting needs.

The McKesson database naming conventions for VIEWS are as follows:

Naming Conventions for Queries Creating VIEWS:

Q   _____   V_Description

| | |

| | |_____VIEW

| |

| |_____Product Letter: G=STAR FINANCIALS Accounts Payable

| H=STAR FINANCIALS Payroll/Personnel

| I=STAR FINANCIALS Materials Management

| J=STAR FINANCIALS General Ledger

| F=STAR FINANCIALS Patient Accounting

| A=STAR Allstar

| C=STAR Patient Care

| L=STAR Laboratory

| P=STAR Pharmacy

| X=STAR Radiology

|_____Query

EXAMPLE:QLV_LAB_CLINICAL_VIEW

Naming Conventions for VIEWS:

V_View Name

EXAMPLE:V_LAB_CLINICAL_VIEW

The following pages show sample VIEW descriptions and sample queries to create the VIEWS described. These views are examples of how to create a view. If changes are needed to a view, the SQL user needs to copy the query to another name using his or her hospital's naming convention. The VIEW name itself could be changed as well. This prevents the query and view from being overwritten with an application upgrade. For more information on the creation of VIEWS, please refer to the *KB_SQL Database Administrator's Guide* and the *KB_SQL Reference/User's Guide.*

V_PAT_COMMON

SAMPLE VIEW DESCRIPTION

Query Name: QAV_PAT_COMMON

View Name: V_PAT_COMMON

Description:

This query creates of view of commonly reported on patient information. This view (or a variation of it) could be the only table needed for many queries.

This query joins AG_DEMOG, AG_MEDICAL and AG_MISC_VISIT to give the user access to patient-level data as well as visit-specific data. Refer to the table documentation of the source tables for more information on their contents.

Notes:

None.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QAV_PAT_COMMON                        Routine:
        Printed: 08/02/91 at 4:55 PM
 Description: Common patient data view
SQL Text
========
--      This query creates a View of common patient data by joining
--      AG_DEMOG, AG_MEDICAL and AG_MISC_VISIT tables.


--DROP VIEW  V_PAT_COMMON
CREATE VIEW V_PAT_COMMON
(INTN,AN, PAT_NAME,BIRTHDATE, CHR_NTFY, CHURCH_CD, CHURCH_NM, CLASS_CD,
CLASS_DESC, DENOM_CD, DENOM_DESC, DIABETIC_IND, DRIV_LIC_NBR, EXPIRED_DT,
FATHERS_NM, GUAR_IND, HC_EXP_DT, HC_PROV, HC_VERSION, LANG_CD, LANG_DESC,
MARITAL_STATUS, MEDICAID_NBR, MEDICARE_NBR, LAST_UNIT_NBR, MOTHERS_NM,
NATION_CD, NATION_DESC, PATIENT_AGE, PATIENT_AGE_W_IND, PAT_ADDR_1,
PAT_ADDR_2, PAT_CITY, PAT_COUNTRY, PAT_NAME_FIRST, PAT_NAME_LAST,
PAT_NAME_MI, PAT_SSN, PAT_STATE, PAT_ZIP_CODE, PHONE_NBR, PRI_CARE_PHYS_CD,
PRI_CARE_PHYS_NAME, RACE_CD, RACE_DESC, SEX, SPOUSE_NM, TUMR_NBR, VET_IND,
UNIT_NBR,ABN_PLN, ACCOM_CD, ACCOM_DESC, ADM_DIAG_CD, ADM_DIAG_DESC, ADM_DT, ADM_TM,
ADM_DT_TM, ADM_REAS, ATTEND_PHY, ATTEND_PHY_NM,BED_NBR, BILLING_STATUS,
CHRG_TO_FROM_IND,CHRG_TO_FROM_NBR, CHRG_UNTIL_DT, DSCHRG_COND, DSCHRG_COND_DESC,
DSCHRG_DT,DSCHRG_DT_TM, DSCHRG_TM, FAC, FIN_CLASS, INPAT_OUTPAT_IND, ISO_CD,
ISO_DESC, IV_THER_CD, IV_THER_DESC, LEV_OF_CARE, LGTH_OF_STAY,
LOS_HRS_MINS,O2_THER_CD, O2_THER_DESC, ORGAN_DONOR, PAT_ACCT_NBR, PAT_HEIGHT,
PAT_WEIGHT, PAT_TYPE, PREGNANT_IND, PREV_PAT_TYPE, ROOM_NBR, SERVICE_CD,
SERVICE_DESC, SMOKER_IND, STATION, WK_DIAG_CD, WK_DIAG,
ACCT_INIT, ACDT_DATE, ACDT_DT_TM, ACDT_TIME, ACDT_TYPE_CODE, ADM_INIT,
ADM_PHY_CD, ADM_PHY_NM, ADM_SOURCE, ADM_TYPE, BABIES_ACCT_NBRS,
BABIES_BIRTH_IND, CASE_NO, CASE_TEAM, COURTESY_DIS, CUT_CD, CUT_DESC,
ER_PHY_CD, ER_PHY_NM, METHOD_OF_TRANS, MOTHER_INTN_AN, OUTPAT_LOC1,
OUTPAT_LOC2, PREV_NAME, PREV_VISIT_DATE, PREV_VISIT_IND, PRE_ADM_INIT,
REF_FAC_CD, REF_FAC_DESC,REF_PHY_CD, REF_PHY_NM, TRAN_TO, TRAN_FR)
AS
SELECT
INTN,AN, PAT_NAME,BIRTHDATE, CHR_NTFY, CHURCH_CD, CHURCH_NM, CLASS_CD,
CLASS_DESC, DENOM_CD, DENOM_DESC, DIABETIC_IND, DRIV_LIC_NBR, EXPIRED_DT,
FATHERS_NM, GUAR_IND, HC_EXP_DT, HC_PROV, HC_VERSION, LANG_CD, LANG_DESC,
MARITAL_STATUS, MEDICAID_NBR, MEDICARE_NBR, LAST_UNIT_NBR, MOTHERS_NM,
NATION_CD, NATION_DESC, PATIENT_AGE, PATIENT_AGE_W_IND, PAT_ADDR_1,
PAT_ADDR_2, PAT_CITY, PAT_COUNTRY, PAT_NAME_FIRST, PAT_NAME_LAST,
PAT_NAME_MI, PAT_SSN, PAT_STATE, PAT_ZIP_CODE, PHONE_NBR, PRI_CARE_PHYS_CD,
PRI_CARE_PHYS_NAME, RACE_CD, RACE_DESC, SEX, SPOUSE_NM, TUMR_NBR, VET_IND,
UNIT_NBR,ABN_PLN, ACCOM_CD, ACCOM_DESC, ADM_DIAG_CD, ADM_DIAG_DESC, ADM_DT, ADM_TM,
```

```
        ADM_DT_TM, ADM_REAS, ATTEND_PHY, ATTEND_PHY_NM,BED_NBR, BILLING_STATUS,

        CHRG_TO_FROM_IND,CHRG_TO_FROM_NBR, CHRG_UNTIL_DT, DSCHRG_COND, DSCHRG_COND_DESC,
        DSCHRG_DT,DSCHRG_DT_TM, DSCHRG_TM, FAC, FIN_CLASS, INPAT_OUTPAT_IND, ISO_CD,

        ISO_DESC, IV_THER_CD, IV_THER_DESC, LEV_OF_CARE, LGTH_OF_STAY,

        LOS_HRS_MINS,O2_THER_CD, O2_THER_DESC, ORGAN_DONOR, PAT_ACCT_NBR, PAT_HEIGHT,

        PAT_WEIGHT, PAT_TYPE, PREGNANT_IND, PREV_PAT_TYPE, ROOM_NBR, SERVICE_CD,

        SERVICE_DESC, SMOKER_IND, STATION, WK_DIAG_CD, WK_DIAG,

        ACCT_INIT, ACDT_DATE, ACDT_DT_TM, ACDT_TIME, ACDT_TYPE_CODE, ADM_INIT,

        ADM_PHY_CD, ADM_PHY_NM, ADM_SOURCE, ADM_TYPE, BABIES_ACCT_NBRS,

        BABIES_BIRTH_IND, CASE_NO, CASE_TEAM, COURTESY_DIS, CUT_CD, CUT_DESC,

        ER_PHY_CD, ER_PHY_NM, METHOD_OF_TRANS, MOTHER_INTN_AN, OUTPAT_LOC1,

        OUTPAT_LOC2, PREV_NAME, PREV_VISIT_DATE, PREV_VISIT_IND, PRE_ADM_INIT,

        REF_FAC_CD, REF_FAC_DESC,REF_PHY_CD, REF_PHY_NM, TRAN_TO, TRAN_FR


FROM    AG_DEMOG D,
        AG_MEDICAL M,
        AG_MISC_VISIT V


WHERE   D.INTN = M.INTN
        AND M.INTN = V.INTN
        AND M.AN = V.AN
End>
```

V_NO_DRG

SAMPLE VIEW DESCRIPTION

Query Name:QAV_NO_DRG

View Name:V_NO_DRG

Description:

This query creates a view that is a subset of the columns in AG_MEDICAL. To restrict unauthorized users from accessing diagnosis and diagnosis related data, the admitting and working diagnosis code and description columns are not included in the selected columns. Medical comments, isolation code and description, and the precaution code and description columns are also not included in the 'Select' statement.

To further simplify the View that is created by this query, if AG_MEDICAL contained columns for both code and description, just the description column has been included in the 'Select' statement.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QAV_NO_DRG                        Routine:
       Printed: 08/02/91 at 4:57 PM
 Description: Create View of AG_MEDICAL w/ Dx related info restricted

SQL Text
========
--          This query creates a view that is a subset of the AG_MEDICAL
--          table. Diagnosis and diagnosis-related columns are excluded
--          from the columns selected for the resulting view.  When
--          AG_MEDICAL contains columns for both code and description, the
--          description column is included in this view.


CREATE VIEW V_NO_DRG AS


SELECT  ACCOM_DESC,
        ADM_DT,
        ADM_TM,
        AN,
        ATTEND_PHY_NM,
        BED_NBR,
        BED_NBR_OR_AN,
        BILLING_STATUS,
        CHRG_TO_FROM_IND,
        CHRG_TO_FROM_NBR,
        CHRG_UNTIL_DT,
        COND_DESC,
        --CONTRACT_PAT_IND,
        DSCHRG_COND_DESC,
        DSCHRG_DT,
        DSCHRG_TM,
        FAC,
        INHOUSE_IND,
        INPAT_OUTPAT_IND,
        INTN,
        IV_THER_DESC,
        LEV_OF_CARE,
        LGTH_OF_STAY,
        LMP_DATE,
        O2_THER_DESC,
        ONSET_DT_TM,
```

```
                    PAT_ACCT_NBR,
                    PAT_BODY_SURFACE,
                    PAT_HEIGHT,
                    PAT_IDEAL_WT,
                    PAT_NAME,
                    PAT_TYPE,
                    PAT_WEIGHT,
                    PAVILION,
                    PREGNANT_IND,
                    PREV_PAT_TYPE,
                    PUBLICITY,
                    ROOM_NBR,
                    ROOM_NBR_OR_STATUS,
                    SERVICE_DESC,
                    SMOKER_IND,
                    STATION,
                    STATION_OR_NULL,
                    UNIT_NBR
          FROM      AG_MEDICAL
          End>
```

V_SIM_FIM

SAMPLE VIEW DESCRIPTION

Query Name:QAV_SIM_FIM

View Name:V_SIM_FIM

Description:

This query creates a View that contains a number of columns from the SIM file joined with the FIM information for the inpatient FIM code assigned to each SIM item. The columns selected in the view include much of the SIM information (relates to the Service Item Maintenance description, order/ requisition, and pricing screens) and the STAR Financials FIM information.

Notes:

Inpatient FIM information and prices have been selected for this query. If you want to report both inpatient and outpatient information, use either AG_SIM or another view.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QAV_SIM_FIM                          Routine:
        Printed: 08/02/91 at 4:59 PM
  Description: View of SIM and FIM data

SQL Text
========
-- This View combines key columns from AG_SIM and AG_FIM.  The columns
-- necessary for most reporting are included.


CREATE VIEW V_SIM_FIM AS


SELECT   ACTIVE_IND,
         CHARGE_TYPE,
         CHG_ON_ORD_IND,
         DIET_PRIM_IND,
         FIM_CD,
         FIXED_PRICE,
         FIXED_UNITS,
         MAX_CHG,
         MIN_CHG,
         PANEL_PKG_TYPE,
         PCR_CD,
         PREP_INSTR_IND,
         PRICE_ALG,
         PROF_FEE_IND,
         PROF_FEE_PCT,
         PROF_FEE_PHY_CD,
         PROMPT_CD,
         PRT_REQ_IND,
         QUESTION_CLS,
         REQUISTN_CNT,
         RESTRCT_PRIORTS,
         RM_BED_IND,
         SEPAR_REQ_IND,
         SIM_CD,
         SIM_DESC,
         SIM_DPT,
         SUB_DPT_CD,
         SUPPRESS_FLAG,
         VAR_PRC_1,
```

```
                    VAR_PRC_2,
                    VAR_PRC_3,
                    VAR_PRC_4,
                    VAR_UNIT_1,
                    VAR_UNIT_2,
                    VAR_UNIT_3,
                    VAR_UNIT_4,
                    ALT_BILL_SUMM_CD1,
                    ALT_BILL_SUMM_CD2,
                    ALT_BILL_SUMM_CD3,
                    ALT_SERV_CD,
                    ATTACH_CD,
                    DETAIL_REV_CENTERS,
                    FIM_DESC,

                    HCPCS_CD,
                    INV_ITEM_NBR,
                    INV_LOC,
                    PRORATN_SUMM_CD,
                    REL_VALUE,
                    REVENUE_CD,
                    SERV_TYPE_CD,
                    STAT_IND,
                    UB82_REV_CD

        FROM    AG_SIM S, AG_FIM F

        WHERE   S.SIM_DPT = F.FIM_DPT
                AND S.FIM_CD = F.FIM_CD
        End>
```

V_SCHED_INSTR

SAMPLE VIEW DESCRIPTION

Query Name:QCV_SCHED_INSTR

View Name:V_SCHED_INSTR

Description:

This query creates a view consisting of the columns from the following three tables:

- AG_DEMOG

- CK_RES_SCHED_APPT

- CK_SIM_DEPT_INST

EZQ users would find the resulting table useful for creating Scheduling reports that print patient information and/or scheduling instructions for scheduled appointments.

Notes:

The Resource Schedule Instruction List sample query uses the information from these three tables through foreign key assignments. SQL Editor users have the option of using the foreign keys or using the table created through this View.

SAMPLE QUERY TO CREATE VIEW

```
 Query Name: QCV_SCHED_INSTR                          Routine:
      Printed: 08/02/91 at 4:59 PM
 Description: Creates View of Scheduling Instruction Info
SQL Text
========
--      This query creates a view that joins patient demographic
--      information, scheduling appointment information, and
--      appointment scheduling instructions.

CREATE VIEW V_SCHED_INSTR
(INTN,AN, PAT_NAME,BIRTHDATE, CHR_NTFY, CHURCH_CD, CHURCH_NM, CLASS_CD,
CLASS_DESC, DENOM_CD, DENOM_DESC, DIABETIC_IND, DRIV_LIC_NBR,
EXPIRED_DT,FATHERS_NM, GUAR_IND, HC_EXP_DT, HC_PROV, HC_VERSION, LANG_CD,
LANG_DESC,MARITAL_STATUS, MEDICAID_NBR, MEDICARE_NBR, LAST_UNIT_NBR, MOTHERS_NM,
NATION_CD, NATION_DESC, PATIENT_AGE, PATIENT_AGE_W_IND, PAT_ADDR_1,
PAT_ADDR_2, PAT_CITY, PAT_COUNTRY, PAT_NAME_FIRST, PAT_NAME_LAST,
PAT_NAME_MI, PAT_SSN, PAT_STATE, PAT_ZIP_CODE, PHONE_NBR,
PRI_CARE_PHYS_CD,PRI_CARE_PHYS_NAME, RACE_CD, RACE_DESC, SEX, SPOUSE_NM, TUMR_NBR,
VET_IND, UNIT_NBR,ADDL_ITEMS, ADDL_SIM_CDS, APPT_DT, APPT_LGTH,
APPT_ORD_PRIOR,APPT_OVERRIDE, APPT_PRIORITY, APPT_PROC_LGTH, APPT_REASON,
APPT_TM, APPT_TYPE, CHART_PULL_IND, CHART_REQ, CHK_IN_TM, CHK_OUT_TM,
DEPT_CD, DEPT_NM, INT_ORDER_NBR, FAC, EDIT_BY, EDIT_DT_TM, NEW_VISIT,
OUTSIDE_CHK_IN, PAT_ACCT_NBR, REF_DT, REF_PHYS_CD, REF_PHYS_NAME,
REF_SRC_CD, REF_SRC_DESC, RESCHED_DT_TM, RESOURCE_CD, RESOURCE_NBR,
RESOURCE_NM, SIM_CODE, SIM_DESC, SIM_DPT, SPEC_CD, SPEC_NM, STATUS,
TRANS_IND, TRANS_METHOD, VISIT_CHK_IN, WK_DIAG_CD, WK_DIAG_DESC,
INST_TEXT_1_1, INST_TEXT_1_2, INST_TEXT_2_1, INST_TEXT_2_2,
INST_TEXT_3_1, INST_TEXT_3_2, INST_TEXT_4_1, INST_TEXT_4_2,
INST_TEXT_5_1, INST_TEXT_5_2)  AS

SELECT
INTN,AN, PAT_NAME,BIRTHDATE, CHR_NTFY, CHURCH_CD, CHURCH_NM, CLASS_CD,
CLASS_DESC, DENOM_CD, DENOM_DESC, DIABETIC_IND, DRIV_LIC_NBR,
EXPIRED_DT,FATHERS_NM, GUAR_IND, HC_EXP_DT, HC_PROV, HC_VERSION, LANG_CD,
LANG_DESC,MARITAL_STATUS, MEDICAID_NBR, MEDICARE_NBR, LAST_UNIT_NBR, MOTHERS_NM,
NATION_CD, NATION_DESC, PATIENT_AGE, PATIENT_AGE_W_IND, PAT_ADDR_1,
PAT_ADDR_2, PAT_CITY, PAT_COUNTRY, PAT_NAME_FIRST, PAT_NAME_LAST,
PAT_NAME_MI, PAT_SSN, PAT_STATE, PAT_ZIP_CODE, PHONE_NBR,
PRI_CARE_PHYS_CD,PRI_CARE_PHYS_NAME, RACE_CD, RACE_DESC, SEX, SPOUSE_NM, TUMR_NBR,
VET_IND, UNIT_NBR,ADDL_ITEMS, ADDL_SIM_CDS, APPT_DT, APPT_LGTH,
APPT_ORD_PRIOR,APPT_OVERRIDE, APPT_PRIORITY, APPT_PROC_LGTH, APPT_REASON,
APPT_TM, APPT_TYPE, CHART_PULL_IND, CHART_REQ, CHK_IN_TM, CHK_OUT_TM,
DEPT_CD, DEPT_NM, INT_ORDER_NBR, FAC, EDIT_BY, EDIT_DT_TM, NEW_VISIT,
OUTSIDE_CHK_IN, PAT_ACCT_NBR, REF_DT, REF_PHYS_CD, REF_PHYS_NAME,
REF_SRC_CD, REF_SRC_DESC, RESCHED_DT_TM, RESOURCE_CD, RESOURCE_NBR,
RESOURCE_NM, SIM_CODE, SIM_DESC, SIM_DPT, SPEC_CD, SPEC_NM, STATUS,
TRANS_IND, TRANS_METHOD, VISIT_CHK_IN, WK_DIAG_CD, WK_DIAG_DESC,
INST_TEXT_1_1, INST_TEXT_1_2, INST_TEXT_2_1, INST_TEXT_2_2,
INST_TEXT_3_1, INST_TEXT_3_2, INST_TEXT_4_1, INST_TEXT_4_2,
INST_TEXT_5_1, INST_TEXT_5_2


FROM    AG_DEMOG D,
        CK_SIM_DEPT_INST I,
        CK_RES_SCHED_APPT A

WHERE   D.INTN = A.INTN
        AND A.SIM_CODE = I.SIM_CD
        AND A.SIM_DPT = I.DEPT_CD
End>
```

V_NURS_INTERV

SAMPLE VIEW DESCRIPTION

Query Name:QCV_NURS_INTERV

View Name:V_NURS_INTERV

Description:

This query creates a view that is a join of the Nursing Interventions table (CD_INTERV) and the Patient's Medical Information table (AG_MEDICAL). Specific columns have been selected that would be commonly used in queries about nursing interventions. Information about who added the intervention (and when), who updated the intervention (and when) and who completed the intervention (and when) are included to meet typical selection criteria.

Notes:

Nursing intervention information is available for active patients only.

SAMPLE QUERY TO CREATE VIEW

```
  Query Name: QCV_NURS_INTERV                    Routine:
      Printed: 08/02/91 at 5:00 PM
 Description: Creates view of intervention data

SQL Text
========
--      This query creates a view of key intervention data from
--      CD_INTERV and AG_MEDICAL.


CREATE VIEW V_NURS_INTERV AS


SELECT  ADDED_BY,
        ADDED_DT_TM,
        COMPL_BY,
        COMPL_DT_TM,
        GOAL_CD,
        INT_DESC,
        STATUS,
        TEXT_1,
        TEXT_2,
        TEXT_3,
        TEXT_4,
        TEXT_5,
        UPDATED_BY,
        UPDATED_DT_TM,
        PAT_NAME,
        ROOM_NBR,
        STATION


FROM    CD_INTERV I,
        AG_MEDICAL M


WHERE   I.INTN = M.INTN
        AND I.AN = M.AN
End>
```

V_ADMISSION_INFO

SAMPLE VIEW DESCRIPTION

Query Name: QAV_ADMISSION_VIEW

View Name: V_ADMISSION_INFO

Description:

This query creates a view containing selected columns from AG_MEDICAL and AG_DEMOG using the admit date index table, AG_ADM_DT_IDX, to constrain data to yesterday's admissions.

This view can be used for creating Administrative reports with patient demographic and general medical information.

Notes:

This view can be created on both a Clinical and Financial CPU because the data exists on both.

SAMPLE QUERY TO CREATE VIEW

```
Query Name: QAV_ADMISSION_VIEW          Routine:
     Printed: 08/03/00 at 11:13 AM
 Description: This is a view of yesterday's admissions
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- This VIEW has basic information for yesterday's admissions

CREATE VIEW  V_ADMISSION_INFO
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ADM_DT
 ,DSCHRG_DT
 ,FAC
 ,PAT_TYPE
 ,PRI_CARE_PHY_CD
 ,PRI_CARE_PHY_NM
 ,ADM_PHY
 ,ADM_PHY_NM
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,ADM_DX_CD
 ,ADM_DX_DESC
 ,WK_DX_CD
 ,WK_DX_DESC
 ,STATION
 ,MED_SERV
 ,PAT_BIRTHDATE
 ,GENDER
 ,PAT_SSN
 ,PAT_PHONE_NBR
 ,PAT_ADDRESS1
 ,PAT_ADDRESS2
 ,PAT_CITY
 ,PAT_STATE
```

```
,PAT_ZIP
,PAT_AGE)

AS

SELECT   INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ADM_DT
 ,MED_LINK@DSCHRG_DT
 ,FAC
 ,PAT_TYPE
 ,DEMOG_LINK@PRI_CARE_PHYS_CD
 ,DEMOG_LINK@PRI_CARE_PHYS_NAME
 ,VISIT_LINK@ADM_PHY_CD
 ,VISIT_LINK@ADM_PHY_NM
 ,MED_LINK@ATTEND_PHY
 ,MED_LINK@ATTEND_PHY_NM
 ,MED_LINK@ADM_DIAG_CD
 ,MED_LINK@ADM_DIAG_DESC
 ,MED_LINK@WK_DIAG_CD
 ,MED_LINK@WK_DIAG
 ,MED_LINK@STATION
 ,MED_LINK@SERVICE_CD
 ,DEMOG_LINK@BIRTHDATE
 ,DEMOG_LINK@SEX
 ,DEMOG_LINK@PAT_SSN
 ,DEMOG_LINK@PHONE_NBR
 ,DEMOG_LINK@PAT_ADDR_1
 ,DEMOG_LINK@PAT_ADDR_2
 ,DEMOG_LINK@PAT_CITY
 ,DEMOG_LINK@PAT_STATE
 ,DEMOG_LINK@PAT_ZIP_CODE
 ,DEMOG_LINK@PATIENT_AGE

FROM     AG_ADM_DT_IDX
WHERE    ADM_DT = (TODAY-1)
```

V_ADM_FACE_SHEET

SAMPLE VIEW DESCRIPTION

Query Name:QAV_ADM_FACE-SHEET_VIEW

View Name:V_ADM_FACE_SHEET

Description:

This query creates a view containing selected columns from many All STAR tables such as AG_MEDICAL, AG_DEMOG, AG_INSURANCE, and AG_GUARANTOR. The columns selected are those that could be used to reproduce an admission face sheet. The admission date index table, AG_ADM_DT_IDX, is used to constrain the results to yesterday's admissions.

Notes:

This VIEW can be created on both a financial and clinical CPU. The date check may be changes to include more than yesterday's admissions.

SAMPLE QUERY TO CREATE VIEW

```
 Query Name: QAV_ADM_FACE_SHEET_VIEW          Routine:
      Printed: 08/03/00 at 11:13 AM
 Description: View of date for an admission face sheet
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- Create a VIEW of yesterday's admissions face sheet data
-- Can be run on a CPU with STAR Patient Care and/or STAR Financials


CREATE VIEW V_ADM_FACE_SHEET
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ADM_DT
 ,DSCHRG_DT
 ,ADM_PHY
 ,ADM_PHY_NM
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,ADM_DX_CD
 ,ADM_DX_DESC
 ,WK_DX_CD
 ,WK_DX_DESC
 ,STATION
 ,MED_SERV
 ,PAT_BIRTHDATE
 ,PAT_SSN
 ,PAT_PHONE_NBR
 ,PAT_ADDRESS1
 ,PAT_ADDRESS2
 ,PAT_CITY
 ,PAT_STATE
 ,PAT_ZIP
 ,PAT_EMPL
 ,GUAR_NAME
 ,GUAR_SSN
```

```
,GUAR_PHONE
,GUAR_ADDRESS1
,GUAR_ADDRESS2
,GUAR_CITY
,GUAR_STATE
,GUAR_ZIP
,COB1_CD
,COB1_NM
,COB1_ADDRESS1
,COB1_ADDRESS2
,COB1_CITY
,COB1_STATE
,COB1_ZIP
,COB1_PHONE
,COB1_INSURED_NM
,COB1_INSURED_REL_CD
,COB1_SEX
,COB1_SSN
,COB1_POLICY
,COB1_GROUP
,COB2_CD
,COB2_NM
,COB2_ADDRESS1
,COB2_ADDRESS2
,COB2_CITY
,COB2_STATE
,COB2_ZIP
,COB2_PHONE
,COB2_INSURED_NM
,COB2_INSURED_REL_CD
,COB2_SEX
,COB2_SSN
,COB2_POLICY
,COB2_GROUP
,COB3_CD
,COB3_NM
,COB3_ADDRESS1
,COB3_ADDRESS2
,COB3_CITY
,COB3_STATE
,COB3_ZIP
,COB3_PHONE
```

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```
    ,COB3_INSURED_NM
    ,COB3_INSURED_REL_CD
    ,COB3_SEX
    ,COB3_SSN
    ,COB3_POLICY
    ,COB3_GROUP
    ,COB4_CD
    ,COB4_NM
    ,COB4_ADDRESS1
    ,COB4_ADDRESS2
    ,COB4_CITY
    ,COB4_STATE
    ,COB4_ZIP
    ,COB4_PHONE
    ,COB4_INSURED_NM
    ,COB4_INSURED_REL_CD
    ,COB4_SEX
    ,COB4_SSN
    ,COB4_POLICY
    ,COB4_GROUP)
AS

SELECT   INTN
    ,AN
    ,PAT_ACCT_NBR
    ,PAT_NAME
    ,ADM_DT
    ,MED_LINK@DSCHRG_DT
    ,VISIT_LINK@ADM_PHY_CD
    ,VISIT_LINK@ADM_PHY_NM
    ,MED_LINK@ATTEND_PHY
    ,MED_LINK@ATTEND_PHY_NM
    ,MED_LINK@ADM_DIAG_CD
    ,MED_LINK@ADM_DIAG_DESC
    ,MED_LINK@WK_DIAG_CD
    ,MED_LINK@WK_DIAG
    ,MED_LINK@STATION
    ,MED_LINK@SERVICE_CD
    ,DEMOG_LINK@BIRTHDATE
    ,DEMOG_LINK@PAT_SSN
    ,DEMOG_LINK@PHONE_NBR
    ,DEMOG_LINK@PAT_ADDR_1
```

```
,DEMOG_LINK@PAT_ADDR_2
,DEMOG_LINK@PAT_CITY
,DEMOG_LINK@PAT_STATE
,DEMOG_LINK@PAT_ZIP_CODE
,MED_LINK@PAT_EMPLOYER_LINK@EMP_NAME
,MED_LINK@GUARANTOR_LINK@GUAR_NAME
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_SSN
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PHONE_NBR
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_ADDR_1
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_ADDR_2
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_CITY
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_STATE
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_ZIP_CODE
,MED_LINK@INS_COB_1_LINK@CARRIER_CODE
,MED_LINK@INS_COB_1_LINK@CARRIER_NAME
,MED_LINK@INS_COB_1_LINK@CARRIER_ADDRESS_1
,MED_LINK@INS_COB_1_LINK@CARRIER_ADDRESS_2
,MED_LINK@INS_COB_1_LINK@CARRIER_CITY
,MED_LINK@INS_COB_1_LINK@CARRIER_STATE
,MED_LINK@INS_COB_1_LINK@CARRIER_ZIPCODE
,MED_LINK@INS_COB_1_LINK@CARRIER_PHONE_NBR
,MED_LINK@INS_COB_1_LINK@INSURED_NAME
,MED_LINK@INS_COB_1_LINK@INSURED_RELAT_CODE
,MED_LINK@INS_COB_1_LINK@INSURED_SEX
,MED_LINK@INS_COB_1_LINK@INSURED_SSN
,MED_LINK@INS_COB_1_LINK@POLICY_NBR
,MED_LINK@INS_COB_1_LINK@GROUP_NBR
,MED_LINK@INS_COB_2_LINK@CARRIER_CODE
,MED_LINK@INS_COB_2_LINK@CARRIER_NAME
,MED_LINK@INS_COB_2_LINK@CARRIER_ADDRESS_1
,MED_LINK@INS_COB_2_LINK@CARRIER_ADDRESS_2
,MED_LINK@INS_COB_2_LINK@CARRIER_CITY
,MED_LINK@INS_COB_2_LINK@CARRIER_STATE
,MED_LINK@INS_COB_2_LINK@CARRIER_ZIPCODE
,MED_LINK@INS_COB_2_LINK@CARRIER_PHONE_NBR
,MED_LINK@INS_COB_2_LINK@INSURED_NAME
,MED_LINK@INS_COB_2_LINK@INSURED_RELAT_CODE
,MED_LINK@INS_COB_2_LINK@INSURED_SEX
,MED_LINK@INS_COB_2_LINK@INSURED_SSN
,MED_LINK@INS_COB_2_LINK@POLICY_NBR
,MED_LINK@INS_COB_2_LINK@GROUP_NBR
,MED_LINK@INS_COB_3_LINK@CARRIER_CODE
```

```
        ,MED_LINK@INS_COB_3_LINK@CARRIER_NAME
        ,MED_LINK@INS_COB_3_LINK@CARRIER_ADDRESS_1
        ,MED_LINK@INS_COB_3_LINK@CARRIER_ADDRESS_2
        ,MED_LINK@INS_COB_3_LINK@CARRIER_CITY
        ,MED_LINK@INS_COB_3_LINK@CARRIER_STATE
        ,MED_LINK@INS_COB_3_LINK@CARRIER_ZIPCODE
        ,MED_LINK@INS_COB_3_LINK@CARRIER_PHONE_NBR
        ,MED_LINK@INS_COB_3_LINK@INSURED_NAME
        ,MED_LINK@INS_COB_3_LINK@INSURED_RELAT_CODE
        ,MED_LINK@INS_COB_3_LINK@INSURED_SEX
        ,MED_LINK@INS_COB_3_LINK@INSURED_SSN
        ,MED_LINK@INS_COB_3_LINK@POLICY_NBR
        ,MED_LINK@INS_COB_3_LINK@GROUP_NBR
        ,MED_LINK@INS_COB_4_LINK@CARRIER_CODE
        ,MED_LINK@INS_COB_4_LINK@CARRIER_NAME
        ,MED_LINK@INS_COB_4_LINK@CARRIER_ADDRESS_1
        ,MED_LINK@INS_COB_4_LINK@CARRIER_ADDRESS_2
        ,MED_LINK@INS_COB_4_LINK@CARRIER_CITY
        ,MED_LINK@INS_COB_4_LINK@CARRIER_STATE
        ,MED_LINK@INS_COB_4_LINK@CARRIER_ZIPCODE
        ,MED_LINK@INS_COB_4_LINK@CARRIER_PHONE_NBR
        ,MED_LINK@INS_COB_4_LINK@INSURED_NAME
        ,MED_LINK@INS_COB_4_LINK@INSURED_RELAT_CODE
        ,MED_LINK@INS_COB_4_LINK@INSURED_SEX
        ,MED_LINK@INS_COB_4_LINK@INSURED_SSN
        ,MED_LINK@INS_COB_4_LINK@POLICY_NBR
        ,MED_LINK@INS_COB_4_LINK@GROUP_NBR

        FROM     AG_ADM_DT_IDX
        WHERE ADM_DT= (TODAY-1)
```

V_DISCHARGE_INFO

SAMPLE VIEW DESCRIPTION

Query Name: QAV_DISCHARGE_VIEW

View Name: V_DISCHARGE_INFO

Description:

This query creates a view containing selected columns from AG_MEDICAL, AG_DEMOG, and AG_MISC_VISIT using the discharge date index, AG_DSCHRG_DT_IDX, to constrain results to yesterday's discharges.

This view can be used for creating Administrative reports on discharged patients.

Notes:

This view can be created on both a financial and clinical CPU. The data exists on both. The date check can be changed to look at more than just yesterday's discharges.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QAV_DISCHARGE_VIEW              Routine:
      Printed: 08/03/00 at 11:13 AM
 Description: View of yesterday's discharges and basic info
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- Create a View of yesterday's Discharges and Basic Info

CREATE VIEW V_DISCHARGE_INFO
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ADM_DT
 ,DSCHRG_DT
 ,FAC
 ,PAT_TYPE
 ,PRI_CARE_PHY_CD
 ,PRI_CARE_PHY_NM
 ,ADM_PHY
 ,ADM_PHY_NM
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,ADM_DX_CD
 ,ADM_DX_DESC
 ,WK_DX_CD
 ,WK_DX_DESC
 ,PRI_DX_CD
 ,PRI_DX_DESC
 ,STATION
 ,MED_SERV
 ,PAT_BIRTHDATE
 ,GENDER
 ,PAT_SSN
 ,PAT_PHONE_NBR
 ,PAT_ADDRESS1
 ,PAT_ADDRESS2
```

```
                ,PAT_CITY

                ,PAT_STATE

                ,PAT_ZIP

                ,PAT_AGE)


          AS


          SELECT   INTN

           ,AN

           ,PAT_ACCT_NBR

           ,PAT_NAME

           ,MED_LINK@ADM_DT

           ,DSCHRG_DT

           ,FAC

           ,PAT_TYP

           ,DEMOG_LINK@PRI_CARE_PHYS_CD

           ,DEMOG_LINK@PRI_CARE_PHYS_NAME

           ,VISIT_LINK@ADM_PHY_CD

           ,VISIT_LINK@ADM_PHY_NM

           ,MED_LINK@ATTEND_PHY

           ,MED_LINK@ATTEND_PHY_NM

           ,MED_LINK@ADM_DIAG_CD

           ,MED_LINK@ADM_DIAG_DESC

           ,MED_LINK@WK_DIAG_CD

           ,MED_LINK@WK_DIAG

           ,ABST_DIAG_LINK@PR_DIAG_CD

           ,ABST_DIAG_LINK@PR_DIAG_DESC

           ,MED_LINK@STATION

           ,MED_LINK@SERVICE_CD

           ,DEMOG_LINK@BIRTHDATE

           ,DEMOG_LINK@SEX

           ,DEMOG_LINK@PAT_SSN

           ,DEMOG_LINK@PHONE_NBR

           ,DEMOG_LINK@PAT_ADDR_1

           ,DEMOG_LINK@PAT_ADDR_2

           ,DEMOG_LINK@PAT_CITY

           ,DEMOG_LINK@PAT_STATE

           ,DEMOG_LINK@PAT_ZIP_CODE

           ,DEMOG_LINK@PATIENT_AGE


          FROM     AG_DSCHRG_DT_IDX

          WHERE    DSCHRG_DT = (TODAY-1)
```

V_DSCHRGS_W_DIAG

SAMPLE VIEW DESCRIPTION

Query Name: QAV_DSCHRGS_W_DIAG_VIEW

View Name: V_DSCHRGS_W_DIAG

Description:

This query creates a view containing selected columns from CE_ABST_DIAG_SEC, AG_MEDICAL, and AG_DEMOG. The view is looking at year-to-date discharges and the associated primary and secondary diagnosis codes assigned.

This view can be used for creating Administrative reports. Examples include a list of all discharges assigned a particular diagnosis code.

Notes:

This VIEW was intended to be run on an ALL STAR CPU. If the CPU does not have STAR Financials, see the comments in the query for a needed change.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QAV_DSCHRGS_W_DIAG_VIEW            Routine:
       Printed: 08/03/00 at 11:13 AM
  Description: View of current year's discharges and diagnosis codes
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- This is a VIEW of the current year's discharges and the diagnosis
-- codes assigned
-- If this VIEW is to be created on a CPU that does NOT have
-- STAR Financials, comment out the A.FIN_LINK@FIN_CLASS
-- AND uncomment A.MED_LINK@INS_COB_1_LINK@FIN_CLASS_CODE

CREATE VIEW V_DSCHRGS_W_DIAG
(INTN
 ,AN
 ,DSCHRG_DT
 ,ADM_DT
 ,PAT_ACCT_NBR
 ,UNIT_NBR
 ,PAT_NAME
 ,PAT_TYP
 ,FIN_CLASS
 ,PR_DX_CD
 ,PR_DX_DESC
 ,SEC_DX_CD
 ,SEC_DX_DESC)

AS
SELECT   A.INTN
,A.AN
,A.MED_LINK@DSCHRG_DT
,A.MED_LINK@ADM_DT
,A.PAT_ACCT_NBR
,A.DEMOG_LINK@UNIT_NBR
,A.PAT_NAME
,A.MED_LINK@PAT_TYPE
--,A.MED_LINK@INS_COB_1_LINK@FIN_CLASS_CODE
```

```
        ,A.FIN_LINK@FIN_CLASS

        ,A.ABST_DIAG_LINK@PR_DIAG_CD

        ,A.ABST_DIAG_LINK@PR_DIAG_DESC

        ,B.SEC_DIAG_CD

        ,B.SEC_DIAG_DESC


FROM     AG_DSCHRG_DT_IDX AS A

         ,CE_ABST_DIAG_SEC AS B

WHERE

  A.DSCHRG_DT BETWEEN TODAY - (SQL_FN_DAYOFYEAR(TODAY-1)) AND (TODAY-1)

  AND    B.INTN = A.INTN

  AND    B.AN = A.AN
```

V_DSCHRGS_W_PROC

SAMPLE VIEW DESCRIPTION

Query Name:QAV_DSCHRGS_W_PROC_VIEW

View Name:V_DSCHRGS_W_PROC

Description:

This query creates a view containing selected columns from CE_ABST_PROC_DTL, AG_MEDICAL, and AG_DEMOG using the discharge date index table, AG_DSCHRG_DT_IDX to constrain the results to year-to-date discharges with procedure codes assigned.

This view can be used for creating Administrative reports. Examples include a list this years discharged patients with a particular procedure assigned.

Notes:

If this view is being used on a CPU that does not have STAR Financials, see the comments in the query.

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SAMPLE QUERY TO CREATE VIEW

```
 Query Name: QAV_DSCHRGS_W_PROC_VIEW           Routine:
      Printed: 08/03/00 at 11:13 AM
 Description: View of year-to-date discharges with procedure
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- This creates a view of discharges from the current year and
-- the procedures assigned
-- If this view is run on a CPU that does NOT have STAR FINANCILAS
-- change fin_link@fin_class to med_link@INS_COB_1_LINK@FIN_CLASS_CODE

CREATE VIEW V_DSCHRGS_W_PROC
(INTN
,AN
 ,DSCHRG_DT
 ,ADM_DT
 ,PAT_ACCT_NBR
 ,UNIT_NBR
 ,PAT_NAME
 ,PAT_TYP
 ,FIN_CLASS
 ,PR_SURG_CD
 ,PR_SURG_NM
 ,PR_PROC_CD
 ,PR_PROC_DESC
 ,PR_PROC_DT
 ,SEC_SURG_CD
 ,SEC_SURG_NM
 ,SEC_PROC_CD
 ,SEC_PROC_DESC
,SEC_PROC_DT)

AS
SELECT   A.INTN
,A.AN
,A.DSCHRG_DT
,A.MED_LINK@ADM_DT
```

```
                ,A.PAT_ACCT_NBR

                ,A.DEMOG_LINK@UNIT_NBR

                ,A.PAT_NAME

                ,A.PAT_TYP

                ,A.FIN_LINK@FIN_CLASS

                ,B.PR_SURG_CD

                ,B.PR_SURG_NM

                ,B.PR_PROC_CD

                ,PROCDESC(FAC,B.PR_PROC_CD)

                ,A.ABST_PROC_LINK@PR_PROC_DATE

                ,B.SEC_SURG_CD

                ,B.SEC_SURG_NM

                ,B.SEC_PROC_CD

                ,B.SEC_PROC_DESC

                ,B.SEC_PROC_DATE


        FROM      AG_DSCHRG_DT_IDX AS A

                  ,CE_ABST_PROC_DTL AS B


        WHERE
         A.DSCHRG_DT BETWEEN TODAY - (SQL_FN_DAYOFYEAR(TODAY-1)) AND (TODAY - 1)

          AND     B.INTN = A.INTN

          AND     B.AN = A.AN
```

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V_DSCHRGD_ER_PTS

SAMPLE VIEW DESCRIPTION

Query Name: QAV_DSCHRGD_ER_PTS_VIEW

View Name: V_DSCHRGD_ER_PTS

Description:

This query creates a view containing selected columns from AG_MEDICAL, AG_DEMOG, CE_ABST_DIAG and CG_VISIT_HIST. The query is constraining results to be those accounts that at one time had a patient type of 'ER' and were discharged within the current year. The discharge date index, AG_DSCHRG_DT_IDX, is being used to limit the results by discharge date.

This view can be used for creating Administrative reports. Examples include a list of all patients seen in the emergency room during the current year.

Notes:

The view is looking at the current year's discharges and patient type 'ER". This may need to be changed to meet a customer's needs. If this view is run on a CPU that does not have STAR Financials, see the comments at the top of the query for needed changes.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QAV_DSCHRGD_ER_PTS_VIEW          Routine:
      Printed: 08/03/00 at 11:13 AM
 Description: View of current year's discharges ER patients
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- This query creates a VIEW of the current year's discharged E/R
-- patients
-- If this is run on a CPU that does NOT have STAR Financials
-- please comment out TOT_CHGS and FIN_LINK@TOT_CHGS  and change
-- FIN_LINK@FIN_CLASS to MED_LINK@INS_COB_1_LINK@FIN_CLASS_CODE

CREATE VIEW V_DSCHRGD_ER_PTS
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ADM_DT
 ,DSCHRG_DT
 ,LST_PAT_TYPE
 ,FIN_CLASS
 ,ER_PHY
 ,ER_PHY_NM
 ,ADM_DX
 ,ADM_DX_DESC
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,PR_DX
 ,PR_DX_DESC
 ,TOT_CHGS
,STATION)

 AS

 SELECT   DISTINCT
  A.INTN
,A.AN
```

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```
        ,A.PAT_ACCT_NBR

        ,A.PAT_NAME

        ,A.MED_LINK@ADM_DT

        ,A.DSCHRG_DT

        ,A.PAT_TYP

        ,A.FIN_LINK@FIN_CLASS

        ,A.VISIT_LINK@ER_PHY_CD

        ,A.VISIT_LINK@ER_PHY_NM

        ,A.MED_LINK@ADM_DIAG_CD

        ,A.MED_LINK@ADM_DIAG_DESC

        ,A.MED_LINK@ATTEND_PHY

        ,A.MED_LINK@ATTEND_PHY_NM

        ,A.ABST_DIAG_LINK@PR_DIAG_CD,

        A.ABST_DIAG_LINK@PR_DIAG_DESC

        ,A.FIN_LINK@TOT_CHGS

        ,A.MED_LINK@STATION


FROM      AG_DSCHRG_DT_IDX AS A
          ,CG_VISIT_HIST AS B


WHERE     A.DSCHRG_DT BETWEEN TODAY - SQL_FN_DAYOFYEAR(TODAY-1) AND
(TODAY-1)
  AND     B.INTN = A.INTN
  AND     B.AN = A.AN
  AND     B.PAT_TYPE = 'ER'
```

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V_DSCHRGS_W_DISP

SAMPLE VIEW DESCRIPTION

Query Name: QAV_DSCHRGS_W_DISP_VIEW

View Name: V_DSCHRGS_W_DISP

Description:

This query creates a view containing selected columns from AG_MEDICAL, AG_DEMOG, CE_ABST_GEN, and AG_MISC_VISIT. Using the discharge date index, AG_DSCHRG_DT_IDX, to limit the results to last week's discharges, the discharge condition and discharge disposition codes are retrieved.

This view can be used for creating Administrative reports. Examples include a list of patients discharged last week with a certain disposition code.

Notes:

The date range for the discharges may be changed. If this view is being run on a CPU that does not have STAR Financials, see the comments in the query for needed changes.

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SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QAV_DSCHRGS_W_DISP_VIEW          Routine:
      Printed: 08/03/00 at 11:13 AM
  Description: Last week's discharges with disposition codes
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- This query creates a VIEW of last weeks discharges and their
-- disposition codes
-- If this query is being run on a CPU that does NOT have STAR Financials
-- change FIN_LINK@FIN_CLASS to MED_LINK@INS_COB_1_LINK@FIN_CLASS_CODE

CREATE VIEW V_DSCHRGS_W_DISP
(INTN
 ,AN
 ,DSCHRG_DT
 ,ADM_DT
 ,LGTH_OF_STAY
 ,PAT_TYP
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,FIN_CLASS
 ,MED_SERV
 ,LST_NRSE_STATION
 ,PAT_IND
 ,ADM_PHY
 ,ADM_PHY_NM
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,ABST_DSCHRG_DISP
 ,ABST_DSCHRG_DISP_DESC
 ,MED_DSCHRG_DISP
 ,MED_DSCHRG_DISP_DESC)

AS

SELECT   INTN
 ,AN
```

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```
            ,DSCHRG_DT
            ,MED_LINK@ADM_DT
            ,MED_LINK@LGTH_OF_STAY
            ,PAT_TYP
            ,PAT_ACCT_NBR
            ,PAT_NAME
            ,FIN_LINK@FIN_CLASS
            ,MED_LINK@SERVICE_CD
            ,MED_LINK@STATION
            ,MED_LINK@INPAT_OUTPAT_IND
            ,VISIT_LINK@ADM_PHY_CD
            ,VISIT_LINK@ADM_PHY_NM
            ,MED_LINK@ATTEND_PHY
            ,MED_LINK@ATTEND_PHY_NM
            ,ABST_GEN_LINK@DSCHG_DISP
            ,ABST_GEN_LINK@DSCHG_DISP_DESC
            ,MED_LINK@DSCHRG_COND
            ,MED_LINK@DSCHRG_COND_DESC


    FROM      AG_DSCHRG_DT_IDX



    WHERE     DSCHRG_DT BETWEEN (TODAY - 7) AND (TODAY - 1)
```

V_DSCHRGS_W_VISIT_HIST

SAMPLE VIEW DESCRIPTION

Query Name:QAV_DSCHRGS_W_VISIT_HIST_VIEW

View Name:V_DSCHRGS_W_VISIT_HIST

Description:

This query creates a view containing selected columns from AG_MEDICAL, AG_DEMOG, AG_MISC_VIST and CG_VIST_HIST. Using the discharge date index, AG_DSCHRG_DT_IDX, the results are limited to the current year's discharges and their visit history records.

This view can be used for creating Administrative reports. Examples include a list patients who had been on a particular station at one time or another

Notes:

If this view is created on a CPU that does not have STAR Financials, see the comments at the top of the query for needed changes.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QAV_DSCHRGS_W_VISIT_HIST_VIEW          Routine:
      Printed: 08/03/00 at 11:13 AM
  Description: Current year's discharges with visit history
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- This query creates a VIEW of the current year's discharges and
-- includes the visit history
-- If this query is being run on a CPU that does NOT have STAR Financials
-- comment out TOT_CHGS and FIN_LINK@TOT_CHGS  and change
-- FIN_LINK@FIN_CLASS  to MED_LINK@INS_COB_1_LINK@FIN_CLASS_CODE

CREATE VIEW   V_DSCHRGS_W_VISIT_HIST
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ADM_DT
 ,DSCHRG_DT
 ,LST_PAT_TYPE
 ,FIN_CLASS
 ,ER_PHY
 ,ER_PHY_NM
 ,ADM_DX
 ,ADM_DX_DESC
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,PR_DX
 ,PR_DX_DESC
 ,TOT_CHGS
 ,STATION
 ,DATE_TIME_IN
 ,DATE_TIME_OUT
 ,TRAN_PAT_TYPE
 ,TRAN_ROOM_NBR_OR_STATUS
 ,TRAN_STATION
 ,TRAN_TYPE_IN
```

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```
     ,TRAN_TYPE_OUT)


AS


SELECT    A.INTN
,A.AN
,A.PAT_ACCT_NBR
,A.PAT_NAME
,A.MED_LINK@ADM_DT
,A.DSCHRG_DT
,A.PAT_TYP
,A.FIN_LINK@FIN_CLASS
,A.VISIT_LINK@ER_PHY_CD
,A.VISIT_LINK@ER_PHY_NM
,A.MED_LINK@ADM_DIAG_CD
,A.MED_LINK@ADM_DIAG_DESC
,A.MED_LINK@ATTEND_PHY
,A.MED_LINK@ATTEND_PHY_NM
,A.ABST_DIAG_LINK@PR_DIAG_CD
,A.ABST_DIAG_LINK@PR_DIAG_DESC
,A.FIN_LINK@TOT_CHGS
,A.MED_LINK@STATION
,B.DATE_TIME_IN
,B.DATE_TIME_OUT
,B.PAT_TYPE
,B.ROOM_NBR_OR_STAT
,B.STATION_OR_NULL
,B.TRANS_TYPE_IN
,B.TRANS_TYPE_OUT


FROM      AG_DSCHRG_DT_IDX AS A
          ,CG_VISIT_HIST AS B


WHERE     A.DSCHRG_DT BETWEEN TODAY - SQL_FN_DAYOFYEAR(TODAY-1) AND
(TODAY-1)
  AND     B.INTN = A.INTN
  AND     B.AN = A.AN
```

V_CENSUS_W_DIET_DENOM_INFO

SAMPLE VIEW DESCRIPTION

Query Name:QCV_CENSUS_W_DIET_DENOM_VIEW

View Name:V_CENSUS_W_DIET_DENOM_INFO

Description:

This query creates a view containing selected columns from AG_STN_ROOM_BED
and CO_DIET.

This view is looking at in-house patients only.

This view can be used for creating Administrative reports. Examples include a list of
all in-house patients on a particular diet or a list of in-house patients sorted by
denomination, station, and bed number.

Notes:

This view needs to be run on a CPU that has STAR Patient Care.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QCV_CENSUS_W_DIET_DENOM_VIEW Routine:
       Printed: 08/03/00 at 11:13 AM
  Description: Current in-house patients with diet and denomination info
     Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- This query creates a VIEW of the current in-house patients
-- plus gives their Diet and Denomination information



CREATE VIEW V_CENSUS_W_DIET_DENOM_INFO
(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,ADM_DT
 ,PAT_NAME
 ,PAT_SEX
 ,WK_DIAG
 ,WK_DIAG_CD
 ,DENOM_CD
 ,DENOMINATION
 ,STATION
 ,ROOM
 ,BED
 ,ACCOM_CD
 ,ATTD_PHY
 ,ATTD_PHY_NM
 ,DIET_CD
 ,DIET_DESC)

AS

SELECT   INTN
,AN
,PAT_ACCT_NBR
,DATE(ADM_DT_TM)
,PAT_NAME
```

```
            ,PAT_SEX
            ,WK_DIAG
            ,WK_DIAG_CD
            ,DENOM_CD
            ,DENOMINATION
            ,STATION_CD
            ,ROOM_NBR
            ,BED_NBR
            ,ACCOM_CD
            ,ATTEND_PHY_CD
            ,ATTEND_PHY_NM
            ,DIET_LINK@DIET_CD
            ,DIET_LINK@DIET_DESC


       FROM    AG_STN_ROOM_BED


       WHERE   AN IS NOT NULL
```

V_CHARGE_INFO

SAMPLE VIEW DESCRIPTION

Query Name:QCV_CHARGE_VIEW

View Name:V_CHARGE-INFO

Description:

This query creates a view containing selected columns from CO_CHARGE. The results are limited to yesterday's charges. The charge index, CO_CHARGE_IDX, is used for optimization. This view is for CPUs with STAR Patient Care.

This view can be used for creating Administrative reports. Examples include a list of all patients with charges yesterday.

Notes:

The date range may be changed, but the view data is limited by the retention of the data in the CO_CHARGE_IDX table. This data is from the STAR Patient Care charge file.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QCV_CHARGE_VIEW          Routine:
       Printed: 08/03/00 at 11:13 AM
  Description: Yesterday's Charges
    Last edit: 07/09/00 at 12:39 PM by DBA
Last compile: 07/05/00 at 3:54 PM

SQL Text
========


-- This creates a VIEW of Yesterday's charges
-- on a STAR Patient Care CPU

CREATE VIEW V_CHARGE_INFO

(INTN
 ,AN
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,CHG_DT
 ,SIM_DPT
 ,SIM_CD
 ,SIM_DESC
 ,FIM_CD
 ,CHG_LOC
 ,CHG_DX
 ,ORD_PHYS
 ,ORD_PHYS_NM
 ,HCPCS_CD
 ,CHG_AMT
 ,QTY
 ,ORD_NBR
 ,CHG_TM)

AS

SELECT    B.INTN
,B.AN
,B.PAT_ACCT_NBR
,B.PAT_NAME
,B.CHG_DT
```

```
        ,B.SIM_DPT

        ,B.ITEM_CD

        ,B.ITEM_DESC

        ,B.FIM_CD

        ,B.CHG_LOC

        ,B.CHG_DIAG

        ,B.ORD_PHYS_CD

        ,B.ORD_PHYS

        ,B.HCPCS_CD

        ,B.CHG_AMT

        ,B.QTY

        ,B.ORD_NBR

        ,B.CHG_TM


FROM     CO_CHARGE_IDX AS A

         ,CO_CHARGE AS B


WHERE    A.CHRG_DT = (TODAY-1)

  AND    B.INTN = A.INTN

  AND    B.AN = A.AN

  AND    B.CHG_DT = A.CHRG_DT
```

SAMPLE QUERIES, DESCRIPTIONS, RESULTS

Guarantor Employer Report

QUERY DESCRIPTION

Report Name: Guarantor Employer Report

Query Name: QAG_GUAR_EMPLOYER

Selection Criteria:None

Sort(s): Guarantor Employer

Description:

This report contains a list of employers and their associated employees, including the patient name, the relationship of the employee to the patient, and the guarantor's phone number.

Notes:

This query scans the entire active patient file and orders by the employer alphabetically.

This report is 132 characters wide.

SAMPLE QUERY

```
   Query Name: QAG_GUAR_EMPLOYER                Routine:
        Printed: 04/26/91 at 10:27 AM
   Description: Guarantor Employer List
      Last edit: 04/26/91 at 10:03 AM by DBA
Last compile: 04/26/91 at 10:05 AM


SQL Text


--Report of employers and their associated employees (guarantors)
--sorted by patient name, guarantor relationship to the patient, and
--the guarantor phone number.  This report selects active patients only
--per the charge-to date.


SET RMARGIN = 132


SELECT        EMP_NAME CHANGED HEADING 'Guarantor Employer Name',
              GUAR_NAME HEADING 'Guarantor Name',
              GUAR_REL_DESC HEADING 'Relationship',
              PAT_NAME HEADING 'Patient Name',
              EMP_PHONE HEADING 'Guarantor Phone'


FROM          AG_GUAR_EMPLR  E, AG_GUARANTOR G,
              AG_ACCT_IDX_INT A


WHERE         A.INTN=G.INTN
              AND A.AN=G.AN
              AND E.AN = G.AN
               AND E.INTN = G.INTN
               AND MED_LINK@CHRG_UNTIL_DT >= TODAY


ORDER BY           EMP_NAME


HEADER             WRITE 'Guarantor Employer Report' CENTER 132
              WRITE 'Printed on '|TODAY|' AT'|NOW CENTER 132
End>
```

Figure 8.1 Guarantor Employer Report

```
                              Guarantor Employer Report
                              Printed on 04/26/91 AT10:06 AM

Guarantor Employer Name      Guarantor Name          Relationship       Patient Name           Guarantor Phone
-------------------------------------------------------------------------------------------------------------------
;SELF                        BAKER,TERRY J           SPOUSE             BAKER,PATRICIA         (404)555-1262
                             EDMUNDS,SALLY O         SELF               EDMUNDS,SALLY          (404)555-9887
                             GORING,JACK T           SELF               GORING,JACK T          (404)555-2810
                             MITCHELL,DENISE         MOTHER             MITCHELL,BABY BOY      (404)555-9356
                             PETERSON,ALVA R         MOTHER             PETERSON,NORMAN        (404)555-0391
                             SMITH,CARL              SELF               SMITH,CARL             (404)555-2893
                             TOWER,WILMA             SELF               TOWER,WILMA            (404)555-0436
                             YOUNGER,CHUCK           FATHER             YOUNGER,RONNIE         (404)555-2872
ACME DISTRIBUTING            BROWN,SHERRY            SELF               BROWN,SHERRY           (404)555-8245
                             HOWELL,BARNEY           SELF               HOWELL,BARNEY          (404)555-1408
                             WILLIAMS,VAN E          BROTHER            SHARPE,SILVIA          (404)555-1092
ATLANTIC LIGHT&GAS           FLINDERS,GEORGE         SPOUSE             FLINDERS,FAWN          (404)555-9207
                             ROBERTSON,STACY         SISTER             ROBERTSON,TED          (404)555-0194
                             SMITH,STEVEN GEORGE     LEGAL GUARDIAN     HEMPE,BRIAN            (404)555-0312

                                              .
                                              .
                                              .


ZITHERS INTERNATIONAL        UNGER,ALICE             SPOUSE             UNGER,DAVE             (404)555-1224

End (97/419)>
```

Attending Physician Census Detail Report

QUERY DESCRIPTION

Report Name: Attending Physician Census Detail Report

Query Name:QAG_ATTEND_PHY_CEN

Selection Criteria: None

Sort(s): Attending Physician

Description:

This report contains a list of attending physicians with their associated patients. The report is useful in indicating the total dollar amount charged to date for each patient and their length of stay.

Notes:

This query scans the entire active patient file and sorts on the attending physician.

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SAMPLE QUERY

```
   Query Name: QAG_ATTEND_PHY_CEN                    Routine:
        Printed: 05/06/91 at 9:23 AM
   Description: Attending Physician Census Detail Report
     Last edit: 05/03/91 at 4:05 PM by DBA
Last compile: 05/03/91 at 4:07 PM

SQL Text
========
--A report of attending physicians listing patient account number,
--patient name, patient location, total charges to date, and length
--of stay.  This report selects active patients only (per charge-to
--date).


SELECT        MED_LINK@ATTEND_PHY_NM HEADING 'Attending Physician',
              MED_LINK@PAT_ACCT_NBR HEADING 'Pt. Acct. #',
              MED_LINK@PAT_NAME HEADING 'Pt. Name',
              MED_LINK@ROOM_NBR_OR_STATUS HEADING 'Pt.|Loc.',
              SUM(CHG_AMT) HEADING 'Total Charges',
              MED_LINK@LGTH_OF_STAY HEADING 'LOS'


FROM              CO_CHARGE C, AG_ACCT_IDX_INT A

WHERE         A.INTN=C.INTN
               AND A.N=C.AN
               AND MED_LINK@CHRG_UNTIL_DT >= TODAY


GROUP BY          AN

ORDER BY          MED_LINK@ATTEND_PHY_NM

HEADER            WRITE 'Attending Physician Census' CENTER 79
              WRITE 'Printed on '|TODAY|'at'|NOW CENTER 79
End>
```

Figure 8.2 Attending Physician Census Detail Report

```
                              Attending Physician Census
                              Printed on 05/06/91at3:50 PM

                                                         Pt.
Attending Physician          Pt. Acct. #    Pt. Name     Loc.   Total Charges    LOS
--------------------------------------------------------------------------------------
LEES,JACK R                  A9100700003    WILLIAMSON,SUKI      2205       446.85   120
LEES,JACK R                  A9102200001    DAVENPORT,JOHN L     1103     23487.90   105
LEES,JACK R                  A9100900007    SPARROW,ROBERT G     1213       360.60   118
End (201 limited/204)>
```

Insurance Verification Worklist

QUERY DESCRIPTION

Report Name: Insurance Verification Worklist

Query Name:QAG_INSC_VERIF_LIST

Selection Criteria: None

Sort(s): Insurance

Description:

This report contains a listing of patients with their associated insurance company's information. It includes the prenotification indicator (0 = no, 1 = yes) and the verification required indicator (0 = no, 1 = yes). This report is designed to be used as an insurance verification worklist.

Notes:

This query scans the miscellaneous visit node and lists in alphabetical order according to insurance carrier.

This is a 132-character report.

SAMPLE QUERY

```
   Query Name: QAG_INSC_VERIF_LIST              Routine:
       Printed: 04/26/91 at 10:27 AM
  Description: Insurance Verification Report
    Last edit: 04/26/91 at 10:01 AM by DBA
Last compile: 04/26/91 at 10:15 AM
```

SQL Text

```
--This report is a listing of patients with their associated
--insurance company's information.  This report is designed
--to be used as an insurance verification worklist.  This
--report selects active patients only, per the charge-to date.

SET RMARGIN = 132
SELECT        A. CARRIER_CODE CHANGED HEADING 'Ins. Code',
                 A. PAT_NAME HEADING 'Patient Name',
                 A. GROUP_NAME HEADING 'Group Name',
                 A. CARRIER_PHONE_NBR HEADING 'Carrier Phone',
                 A. PRE_NOTIFY_IND HEADING 'Pre/Notif|Ind',
                 A. VERIFICATION_REQD HEADING 'Verify|Ind',
                 A. APPROVAL_DATE HEADING 'Approval Date',
                 A. MED_LINK@PAT_TYPE HEADING 'Type'


FROM             AG_INSURANCE A,
                 AG_ACCT_IDX_INT B


WHERE            A.INS_TYPE_CODE = 'C'
  AND            A.MED_LINK@CHRG_UNTIL_DT >= TODAY
  AND            A.INTN = B.INTN
  AND            A.AN = B.AN


ORDER BY         A.CARRIER_CODE


HEADER       WRITE'Insurance Verification Report' CENTER 132
                 WRITE 'Printed on '|TODAY|' AT '|NOW CENTER 132


End>
```

Figure 8.3 Insurance Verification Report

```
                                  Insurance Verification Report
                                  Printed on 04/26/91 AT 10:16 AM

                                                        Pre/Notif  Verify
Ins. Code  Patient Name          Group Name        Carrier Phone  Ind      Ind    Approval Date  Type
----------------------------------------------------------------------------------------------------------
  030001   JOHNSON,MIKE          GROUP NAME        (404)555-2342  0        0      01/21/91       I/P
           LEWIS,BYRON           GROUP NAME        (404)555-2342  0        0                     I/P
  030002   RAPHELLO,M                              (404)555-3333  1        1                     I/P
           WELK,NAOMI                              (404)555-3333  1        1                     I/P
  200001   MCCOY,BABY BOY        HBO & COMPANY     (404)555-6000  1        1                     I/P
  201500   RUSH,GUY F                              (404)555-1212  1        1                     FIN
           BROWNING,BABY BOY                       (404)555-1212  1        1                     I/P
  249999   ANDREWS,RALPH S                                        1        1                     I/P
  383030   DELANEY,DAN           GROUP NAME        (404)555-7263  1        1                     I/P
           THAP,LENORE           GROUP NAME        (404)555-2272  1        1      01/21/91       I/P
           DORINGER,DAVID L      GROUP NAME        (404)555-3428  1        1                     I/P
           SIMMONS,VAN           GROUP NAME        (404)555-1233  1        1                     I/P
           OLIVIER,THOMAS        GROUP NAME        (404)555-7276  1        1                     I/P
           MILLER,JANE           GROUP NAME        (404)555-0443  1        1                     ADM

           PETERSON,NORMAN       GROUP NAME        (404)555-8263  1        1                     I/P
           EDWARDS,LAWRENCE      GROUP NAME        (404)555-5145  1        1                     OB
           CASE,QUENTIN          GROUP NAME        (404)555-8254  1        1                     O/P
           ANDREWS,BARBARA       GROUP NAME        (404)555-9267  1        1                     I/P
           EVANS,DEBRA           GROUP NAME        (404)555-8743  1        1                     I/P
           ILIANDER,HANK         GROUP NAME        (404)555-3579  1        1      12/21/90       I/P
           JONES,KARL            GROUP NAME        (404)555-1238  1        1                     I/P
  450001   LORING,MARY                                                                           AAA
           OSBORNE,NORMAN                                                                        I/P
  999995   QUAIL,REGGIE                            (404)555-7676  1        1                     FIN
End (28/473)>
```

30-Day Readmission Report

QUERY DESCRIPTION

Report Name:30-Day Readmission Report

Query Name:QAG_PAT_READMIT_REPORT

Selection Criteria: None

Sort(s): Patient Social Security Number

Description:

This report contains a listing of all patients who have been readmitted within 30 days of being discharged. This report is designed to flag all patients who have been readmitted within this time frame for federal regulation purposes.

Notes:

This is a 132-character report.

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SAMPLE QUERY

```
   Query Name: QAG_PAT_READMIT_REPORT          Routine:
        Printed: 06/29/96 at 8:26 AM
  Description: Patient Readmission Report
     Last edit: 09/15/95 at 11:54 AM using SQL Editor
Last compile: 06/26/96 at 11:11 AM


SQL Text


-- This query produces a patient readmission report.  It selects a
-- patient if he/she was admitted twice within "x" days.  It uses the
-- admission date to admission date for the WHERE statement criteria.


-- Note:  If this sample query is copied to a hospital specific query,
-- then the WHERE statement may be modified to select patients from
-- a discharge date to admission date for a readmission report.


-- For this query, the user must enter the beginning admission date
-- from which the previous admission dates will be compared.  This
-- admission date must equal the readmit date.  The user must also specify
-- how many days to check for a readmission date.


-- The report should be printed on 132 column-wide paper.  This query
-- may take several hours to run.


SET     RMARGIN = 132,
        DISPLAY_PAGE = N


READ    :XBEG DATE PROMPT 'From which admission date'  DEFAULT 'T',
        :XDAY INTEGER(2) PROMPT 'Enter number of days readmitted within'
         DEFAULT 30


SELECT  A.MED_LINK@UNIT_NBR HEADING 'Unit Nbr'  LEFT 10,
        SUBSTRING(A.PAT_ACCT_NBR,2) HEADING 'UPat Acct|Nbr' LEFT 10,
        A.PAT_NAME HEADING 'Patient'  LEFT 17,
        (TODAY-A.DEMOG_LINK@BIRTHDATE)\365 AS AGE1 HEADING 'Age' RIGHT 3,
        A.ADM_DT HEADING 'Current|Adm Dt' CENTER 8,
--        A.MED_LINK@ADM_DT HEADING 'Current|Adm Dt'  CENTER 8,
        B.ADM_DT_HEADING 'Previous|Adm Dt'  CENTER 8,
        B.DIS_DATE_HEADING 'Previous|Dis Dt'  CENTER 8,
        A.ADM_DT - B.ADM_DT AS DIFF HEADING 'Days|Differ' CENTER,
```

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```
         A.MED_LINK@ATTEND_PHY_NM HEADING 'Attend|Physician' LEFT 15


FROM     AG_PREV_VISITS A,
         AG_PREV_VISITS B


WHERE    A.PV_CTR = 1
AND      A.INTN = B.INTN
AND      A.FAC = B.FAC
AND      B.PV_CTR = 2
AND      A.ADM_DT = :XBEG
--AND      A.MED_LINK@ADM_DT = :XBEG
AND      A.ADM_DT - B.ADM_DT <= :XDAY


ORDER    BY A.PAT_NAME


HEADER
         WRITE 'QAG_PAT_READMIT_REPORT' CENTER 132
         WRITE :XDAY|' Day Patient Readmission Report' CENTER 132
         WRITE 'from a starting admission date of: '|:XBEG CENTER 132
         WRITE 'Printed on '|TODAY|' AT '|NOW CENTER 132  SKIP 2
End>
```

Figure 8.4 30-Day Readmission Report

```
                                    QAG_PAT_READMIT_REPORT
                                 30-Day Patient Readmission Report
                            from a starting admission date of:  06/28/96

                                 Printed on 06/28/96 at 11:13 AM

                Pat Acct                        Current   Previous  Previous  Days      Attend
Unit Nbr        Nbr          Patient       Age  Adm Dt    Adm Dt    Dis Dt    Differ    Physician
-------------------------------------------------------------------------------------------------
A000000957      9618000002   KING,INPAT    76   06/28/96  06/04/96  06/05/96  24        ADAIR, FRANK K
End (1/681)>
```

Physician List

QUERY DESCRIPTION

Report Name: Physician List

Query Name: QAG_PHY_LIST

Selection Criteria: None

Sort(s): Physician Name

Description:

This report contains a listing of the physician number, name, office address, city, state, zip, office phone number, specialty codes and state license number.

This report would be useful as a mailing list for the physicians.

Notes:

This query prints in alphabetical order and does not include the physician group names.

This is a 132-character report.

SAMPLE QUERY

```
   Query Name: QAG_PHY_LIST                      Routine:
       Printed: 04/26/91 at 10:25 AM
  Description: Physician List
    Last edit: 04/12/91 at 5:02 PM by DBA
Last compile: 04/23/91 at 10:13 AM
```

SQL Text

```
--Report of the physician number, name, office address, city, state,
--ZIP office phone number, specialty codes and state license number,
--sorted by the physician name.
--Please note that the physician may have one primary specialty and up to
--five other specialties.  This report only shows the primary and one
--other.


SET RMARGIN = 132


SELECT        PHYS_NBR CHANGED HEADING 'Phy#',
              PHY_NAME HEADING 'NAME',
              OFFICE_ADDR_1 HEADING 'PHYSICIAN ADDRESS',
              OFFICE_ADDR_2 HEADING '',
              OFFICE_CITY HEADING '',
              OFFICE_ST HEADING '',
              OFFICE_ZIP HEADING '',
              OFFICE_PHONE HEADING 'Phone',
              SPECIALTY_CDS HEADING 'Specialties',
              ST_LICENSE_NBR HEADING 'License #'


FROM             AG_PHYSICIAN


WHERE            PHY_NAME NOT LIKE '*%'


ORDER BY         PHY_NAME


HEADER           WRITE 'Physician Listing' CENTER 132
            WRITE 'Printed on' |TODAY|' AT '|NOW CENTER 132


FOOTER      WRITE 'Confidential Information' CENTER 132


End>
```

Figure 8.5 Physician List

```
                                        Physician Listing
                                  Printed on 04/26/91 AT 10:24 AM

Phy#      NAME                       PHYSICIAN ADDRESS
    Phone               Specialties            License #
--------------------------------------------------------------------------------------------------------
10521    ADAIR,FRANK C               249 CHANCERY ROAD;333 LUCKY ST          ATLANTA        GA    30346
    (404)555-1212;444    PED             GA232768276
32081    BARNETT,PATRICK T           9302 HOSPITAL BLVD                      DECATUR        GA    30503
    (404)298-1093       SGN;CAR           GA402840298
77040    CARNES,JAMES E              1333 TAYLOR STREET;SUITE 1 B            COLUMBIA       SC    29201
    (803)254-6391       CAR;              SC345009431
34093    DUNNIGAN,ANN C              920-B DOCTOR'S BUILDING                 AUGUSTA        GA    39109
    (404)955-5500       PED               GA019838404
65448    GOLDEN,SAMUEL W             108 EAST EIGHTH AVENUE;SUITE 201         HOMESTEAD      PA    15662
    (412)555-1212;1234  OBS;FP            PA4651939812
13841    HORST,NATHANIEL R           390 PERIMETER WAY;SUITE 600             ATLANTA        GA    30346
    (404)393-6090       CON;PT            GA284092820
70934    JONSON,PETER                2920 HOPKINS AVENUE; SUITE 2            STARR          SC    28203
    (803)661-3011       OBS;GYN           SC4267701672
02930    LEWIS,MARTHA J              110-A PHYSICIAN OFFICES                 ATLANTA        GA    39109
    (404)292-4939       CON               GA939014954
82371    MITCHELSON,DWIGHT           222 SOUTH ROXBORO                      ATLANTA        GA    30120
    (412)555-1212;1234  OBS;FP            GA3411029399
19101    MYERS,EDNA                  390 PERIMETER WAY;SUITE 580             ATLANTA        GA    30346
    (404)393-6090       CAR               GA8340985015
                                                  •
                                                  •
                                                  •
17       ZELLER,HECTOR C             900 VERONICA LANE; SUITE A             ALPHARETTA     GA  302011234
    (404)255-2555;6540  ANS;CAR;LAB;PED   GA123456789X
End (194/244)>

                                        Confidential Information
```

Orders by Priority

QUERY DESCRIPTION

Report Name:Orders by Priority

Query Name:QCO_ORDER_BY_PRIORITY

Selection Criteria: Department

    Order Request Date

Sort(s):   Priority

       Patient Name

       Ordering Physician

Description:

This report lists items ordered for a specified department and requested date, sorted by priority, patient name and ordering physician. The ordered date and time and the requested date and time for each item as well as the total number of items ordered at each priority is printed. This report could be used to analyze the number and types of items ordered for each priority in a department.

This query demonstrates accessing the order file and searching for a match on SIM department and order request date.

Notes:

The order file (CO_ORDER) is being joined with AG_ACCT_IDX_INT to give order information for active patients only. For an accurate count of orders, the selected order request date needs to be within the suspense days defined for patients in the hospital.

This query searches for SIM department and order requested date, which are not in the primary key of the order file. This query may appear to execute slowly.

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SAMPLE QUERY

```
  Query Name: QCO_ORDER_BY_PRIORITY          Routine:
     Printed: 04/26/91 at 3:14 PM
 Description: Dept. Orders Sorted by Priority
   Last edit: 04/11/91 at 5:07 PM by DBA
Last compile: 04/15/91 at 5:24 PM
```

SQL Text

```
--  Report of department orders for active patients for selected date
--  sorted by priority.


READ    :XDPT CHARACTER(3) HEADING 'Enter 3-Character Department Code'
READ    :XDATE DATE
        HEADING 'Enter Order Requested Date in MM/DD/YY Format'


SELECT  NULL


FROM    CO_ORDER   C, AG_ACCT_IDX_INT A


WHERE   A.INTN=C.INTN
        AND A.AN=C.AN
        AND UPPER(:XDPT) = SIM_DPT
        AND :XDATE = REQST_DT


ORDER BY PRIORITY, PAT_NAME, INTN, AN, ORD_PHYS


HEADER  WRITE :XDATE │ ' ' │ UPPER(:XDPT) │
        ' Department Orders by Priority' CENTER 80
        WRITE 'Printed on ' │ TODAY CENTER 80
        WRITE ' '
        WRITE 'Patient Name' COLUMN 3,
        'Account No.' COLUMN 28,
        'Code' COLUMN 40,
        'Item Description' COLUMN 48
        WRITE 'Ordering Physician' COLUMN 12,
        'Ordered Dt/Tm' COLUMN 48,
        'Requested Dt/Tm' COLUMN 64


BREAK AT PRIORITY
        WRITE ' '
        WRITE 'Priority: ' │ PRIORITY
```

```
          WRITE ' '


DETAIL

          WRITE PAT_NAME CHANGED HEADING ' ' COLUMN 3 LEFT 25,
          AN CHANGED HEADING ' ' COLUMN 28 LEFT 12,
          ITEM_CD HEADING ' ' COLUMN 40 RIGHT 6,
          ITEM_DESC HEADING ' ' COLUMN 48 LEFT 33
          WRITE ORD_PHYS CHANGED HEADING ' ' COLUMN 12,
          ORDER_DT_TM HEADING ' ' COLUMN 48,
          REQST_DT_TM HEADING ' ' COLUMN 64


BREAK AFTER PRIORITY

          WRITE ' '
          WRITE 'Number of Orders at ' | PRIORITY | ' Priority:  ' |
          COUNT(* BY PRIORITY) COLUMN 5


FINAL   WRITE ' '
          WRITE 'End of Report' CENTER 80
```

Figure 8.6 Orders by Priority

```
                  04/19/91 LAB Department Orders by Priority
                             Printed on 04/26/91

     Patient Name              Account No. Code    Item Description
             Ordering Physician                    Ordered Dt/Tm   Requested Dt/Tm

    --------------------------------------------------------------------------------

    Priority: Routine

          SHANNON,JAMES B        A4890          6625  HAPTOGLOBIN
                ADAIR,FRANK C                         04/18/91 01:00   04/19/91 16:00
                                                7360  HEAVY METALS
                                                      04/18/91 01:00   04/19/91 16:00
                                                5785  HEMATOCRIT
                                                      04/18/91 01:00   04/19/91 16:00
                                                6625  HAPTOGLOBIN
                                                      04/18/91 01:00   04/19/91 13:00
                                                7360  HEAVY METALS
                                                      04/18/91 01:00   04/19/91 13:00
                                                5785  HEMATOCRIT
                                                      04/18/91 01:00   04/19/91 13:00
                                                6625  HAPTOGLOBIN
                                                      04/18/91 01:00   04/19/91 10:00
                                                7360  HEAVY METALS
                                                      04/18/91 01:00   04/19/91 10:00
                                                5785  HEMATOCRIT
                                                      04/18/91 01:00   04/19/91 10:00
                                                6625  HAPTOGLOBIN
                                                      04/18/91 01:00   04/19/91 07:00
                                                7360  HEAVY METALS
                                                      04/18/91 01:00   04/19/91 07:00
                                                5785  HEMATOCRIT
                                                      04/18/91 01:00   04/19/91 07:00
                                                6625  HAPTOGLOBIN
                                                      04/18/91 01:00   04/19/91 04:00
                                                7360  HEAVY METALS
                                                      04/18/91 01:00   04/19/91 04:00
                                                5785  HEMATOCRIT
                                                      04/18/91 01:00   04/19/91 04:00
                                                6625  HAPTOGLOBIN
                                                      04/17/91 08:00   04/19/91 01:00
                                                7360  HEAVY METALS
                                                      04/17/91 08:00   04/19/91 01:00
                                                5785  HEMATOCRIT
                                                      04/17/91 08:00   04/19/91 01:00

          Number of Orders at Routine Priority:  18

                                 End of Report
    End (18/5165)>
```

Physician Charges Report

QUERY DESCRIPTION

Report Name: Physician Charges Report

Query Name: QCO_DLYCHG

Selection Criteria: Physician Number

        Patient Type

        Date Range

Sort(s): Patient Name

    SIM Department (of the charge)

    Charge date and time

Description:

This report lists charges by patient and department for a selected ordering physician, patient type and charge date range. The report also lists the total number of charges and total amount of charges for the physician during the specified date range. This report could be used to evaluate the type, number and amount of charges generated by a specific physician.

This sample query demonstrates accessing the charge table and searching for a match on ordering physician, charge date and patient type. Charges are counted and summed for the 'Totals' line at the end of the report.

Notes:

The charge table (CO_CHARGE) is being joined with the charge index table (CO_CHARGE_IDX) on the primary keys INTN,AN and then restricting the charge date. The CO_CHARGE_IDX table contains a certain number of days of data. To see how far back it goes, SELECT DISTINCT(CHG_DT) FROM CO_CHARGE_IDX displays the dates available. To find charges for a specific ordering physician, all charge records with in the date range must be read. For this reason, this query may execute slowly and needs to be run during off-hours to avoid impacting other system users.

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SAMPLE QUERY

```
   Query Name: QCO_DLYCHG                         Routine:
        Printed: 04/26/91 at 3:12 PM
  Description: Charges by pat & dept for selected phys, dates & pt typ
    Last edit: 04/17/91 at 1:47 PM by DBA
Last compile: 04/19/91 at 8:55 AM

SQL Text
-- Report of charges by patient and department for a selected ordering
--  physician, charge date range and patient type.


READ    :XPHYS INTEGER(6) HEADING 'Enter 6-Character Physician
Number'
READ    :XPTYPE CHARACTER(3) HEADING 'Enter 3-Character Patient Type'
READ    :XBEGDT DATE
        HEADING 'Enter Beginning Charge Date in MM/DD/YY Format'
READ    :XENDDT DATE
        HEADING 'Enter Ending Charge Date in MM/DD/YY Format'


SELECT  NULL


FROM    CO_CHARGE C,
        CO_CHARGE_IDX I,


WHERE   I.CHRG_DT BETWEEN :XBEGDT AND :XENDDT
        AND ORD_PHYS_CD = :XPHYS
        AND C.CHG_DT BETWEEN :XBEGDT AND :XENDDT
        AND MED_LINK@PAT_TYPE = UPPER(:XPTYPE)
        AND C.AN = I.AN
        AND C.INTN = M.INTN


ORDER BY PAT_NAME, INTN, AN, SIM_DPT, CHG_DT_TM


HEADER  WRITE 'Charges for ' | :XBEGDT | ' - ' | :XENDDT CENTER 80
        WRITE 'Ordering Physician Number: ' | :XPHYS |
        '    Patient Type: ' | UPPER(:XPTYPE) CENTER 80
        WRITE ' '
        WRITE 'Patient Name' COLUMN 1,
        'Account No.' COLUMN 27
        WRITE 'Dept' COLUMN 3,
        'Item' COLUMN 9,
        'Description' COLUMN 15,
```

```
               'Chg Date/Time' COLUMN 47,
               'Charge Amt' COLUMN 68


       BREAK AT AN
               WRITE ' '
               WRITE PAT_NAME,
               AN COLUMN 27


       DETAIL  WRITE SIM_DPT CHANGED HEADING ' ' COLUMN 3,
               ITEM_CD HEADING ' ' COLUMN 7,
               ITEM_DESC HEADING ' ' COLUMN 15,
               CHG_DT_TM HEADING ' ' COLUMN 47,
               CHG_AMT HEADING ' ' COLUMN 68

       FINAL   WRITE ' '
               WRITE 'Total Number of Charges: ' | COUNT(*) |
               '    Total Charge Amount: ' | SUM(CHG_AMT) CENTER 80
               WRITE ' '
               WRITE 'End of Report' CENTER 80


       End>
```

Figure 8.7 Physician Charges Report

```
                    Charges for 04/01/91 - 04/30/91
                Ordering Physician Number: 1    Patient Type: I/P

 Patient Name                 Account No.
   Dept  Item  Description                     Chg Date/Time       Charge Amt

--------------------------------------------------------------------------------

DAVENPORT,JOAN L             A1920
   LAB  5074  CALCIUM URINE                    04/01/91 15:01           0.00

HELMS,HOLLY D                A1360
   RXA    813  TYLENOL W/CODEINE # 300-30,TABLE04/11/91 11:08         -15.60
          813  TYLENOL W/CODEINE # 300-30,TABLE04/11/91 11:05          15.60

MASTER,SEAN WALKER           A3960
   MSC  9001  SEMIPRIVATE ROOM CHARGE SIMPLE  04/01/91 23:59          96.00
         9001  SEMIPRIVATE ROOM CHARGE SIMPLE  04/02/91 23:59          96.00
         9001  SEMIPRIVATE ROOM CHARGE SIMPLE  04/06/91 23:59          96.00
         9001  SEMIPRIVATE ROOM CHARGE SIMPLE  04/07/91 23:59          96.00

SIMMONS,ANNETTE E            A5190
   MSC  9000  SEMI-PRIVATE TEST CODE           04/24/91 23:59         215.80
         9000  SEMI-PRIVATE TEST CODE           04/25/91 23:59         215.80
         9000  SEMI-PRIVATE TEST CODE           04/26/91 23:59         215.80
         9000  SEMI-PRIVATE TEST CODE           04/29/91 23:59         215.80
         9000  SEMI-PRIVATE TEST CODE           04/30/91 23:59         215.80



         Total Number of Charges: 114    Total Charge Amount:  5434.30

                            End of Report
End (114/8170)>
```

SIM Items Ordered by Department and Date

QUERY DESCRIPTION

Report Name:SIM Items Ordered by Department and Date

Query Name:QCO_SIM_ITEMS_ORDERED

Selection Criteria: SIM Code

                                 SIM Department

                                 Order Requested Date

Sort(s):   Ordering CRT

                 Patient Name

                 Order Number

Description:

This report lists the ordering CRT, patient name, order number, ordering physician and priority for a selected SIM item ordered for a selected date. The report also prints the total number of the items that were ordered. This report could be used to analyze which nursing units or which physicians ordered an item in case orders need to be re-scheduled or the units need to be notified in some way.

This query demonstrates accessing the order file and searching for a specific SIM item and order requested date.

Notes:

The primary key of the order file does not contain the SIM item, SIM department or the order requested date. Therefore, this query reads the whole order file to find a match on these values. As a result, this query may execute slowly.

Order information is available only for active patients.

SAMPLE QUERY

```
  Query Name: QCO_SIM_ITEMS_ORDERED            Routine:
       Printed: 04/26/91 at 3:15 PM
 Description: Order info for selected SIM item & date
    Last edit: 04/16/91 at 8:55 AM by DBA
Last compile: 04/16/91 at 8:58 AM

SQL Text
--  Report of order information for a selected SIM item and date,
--   sorted by patient within nursing station


READ    :XITEM INTEGER(6) HEADING 'Enter SIM Code'
READ    :XDPT CHAR(3) HEADING 'Enter SIM Department Code'
READ    :XDATE DATE
          HEADING 'Enter Order Requested Date in MM/DD/YY Format'


SELECT  NULL


FROM    CO_ORDER O


WHERE   SIM_DPT = UPPER(:XDPT)
        AND ITEM_CD = :XITEM
        AND ORDER_DT = :XDATE


ORDER BY ORDER_LOC, PAT_NAME, INTN, AN, ORD_NBR


HEADER  WRITE UPPER(:XDPT) │ ' Department, Item '
        │ :XITEM │ ' Ordered for ' │ :XDATE CENTER 80
        WRITE 'Printed on ' │ TODAY CENTER 80
        WRITE ' '
        WRITE 'Ord' COLUMN 1,
        'Order' COLUMN 41
        WRITE 'CRT' COLUMN 1,
        'Patient Name' COLUMN 5,
        'Acct No' COLUMN 30,
        'Num' COLUMN 41,
        'Ordering Physician' COLUMN 47,
        'Priority' COLUMN 70


DETAIL  WRITE ORDER_LOC CHANGED HEADING ' ' COLUMN 1,
        PAT_NAME CHANGED HEADING ' ' COLUMN 5,
```

```
                AN CHANGED HEADING ' ' COLUMN 30,
                ORD_NBR HEADING ' ' COLUMN 41,
                ORD_PHYS HEADING ' ' COLUMN 47,
                PRIORITY HEADING ' ' COLUMN 70


        FINAL   WRITE ' '
                WRITE 'Count of Orders for ' | UPPER(:XDPT) | ' Dept. Item '
                | :XITEM | ' Ordered on ' | :XDATE | ':  ' | COUNT(*) COLUMN 5
                WRITE ' '
                WRITE 'End of Report' CENTER 80
        End>
```

Figure 8.8 SIM Items Ordered by Department and Date

```
             LAB Department, Item 5134 Ordered for 04/16/91
                          Printed on 05/15/91

 Ord                                 Order
 CRT Patient Name            Acct No  Num   Ordering Physician     Priority


--------------------------------------------------------------------------------
 LAB WAYNE,KATHY J           A1450    15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
                                      15    CHERECK,BOB            Timed
     WILLIAMSON,JULIE        A2540    65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed
                                      65    ADAMS,HAROLD R         Timed


     Count of Orders for LAB Dept. Item 5134 Ordered on 04/16/91:  22

                              End of Report
 End (22/5771)>
```

Service Items by Revenue Center

QUERY DESCRIPTION

Report Name: Service Items by Revenue Center

Query Name: QAG_SIM_BY_REV_CTR

Selection Criteria: SIM Department

Sort(s):   Revenue Center

SIM Code

Description:

This report lists SIM items by Revenue Center for a selected SIM department. The report could be used to verify the revenue center assignments in the FIM.

This query demonstrates accessing the SIM file (AG_SIM), using a foreign key to the FIM file (AG_FIM) to access the Revenue Center.

Notes:

Since SIM Department is a primary key to AG_SIM, this query efficiently selects items for a specified SIM department.

SAMPLE QUERY

```
  Query Name: QAG_SIM_BY_REV_CTR                    Routine:
      Printed: 04/26/91 at 3:16 PM
 Description: SIM Info sorted by revenue center
Last compile: 03/21/91 at 8:45 AM
```

SQL Text

```
--  Print of Service Item information for a selected SIM department,
--  sorted by Revenue Center and SIM Item


READ    :XDPT CHARACTER(3) HEADING 'Enter 3-Character Department Code'

SELECT  FIM_LINK@REVENUE_CD CHANGED HEADING 'Rev|Ctr',
        SIM_CD HEADING 'SIM|Code',
        SIM_DESC HEADING 'SIM Item Description',
        FIM_CD HEADING 'FIM|Code'


FROM    AG_SIM


WHERE   SIM_DPT = UPPER(:XDPT)


ORDER BY FIM_LINK@REVENUE_CD, SIM_CD


HEADER  WRITE 'Service Items by Revenue Center for '
        | UPPER(:XDPT) | ' Department'
        CENTER 80


FINAL   WRITE ' '
        WRITE 'End of Report' CENTER 80


End>
```

Figure 8.9 Service Items by Revenue Center

```
           Service Items by Revenue Center for CAR Department

Rev     SIM                                           FIM
Ctr     Code   SIM Item Description                   Code
        --------------------------------------------------------
7200       9   NEW CARDIOLOGY SERVICE ITEM            980508
          11   TEST CAR ITEM                          980714
        1000   ELECTROCARDIOGRAM                      342342
        1001   EKG PROFESSIONAL FEE                   980540
        1111   EKG PROF FEE                           980540
        1112   TEST                                   980664
        1234   NEW SIM LINKED TO NEW FIM                 963
        8050   RT CARDIAC CATH                        980508
        8052   LT CARDIAC CATH                        980524
        8054   SPEC. CARDIAC DIAG TEST                980540
        8056   TEMP TRANSVENOUS PACEMAKER             980565
        8058   PERM TRANSVENOUS PACEMAKER             980581
        8060   EXERCISE STUDY                         980607
        8062   O2 UPTAKE                              980623
        8063   CARDIAC LAB TIMED CHARGE               980649
        8064   CARDIAC LAB 1/2 HR                     980649
        8066   TEST SUPPLIES                          980664
        8067   EMERGENCY PROCEDURE                    980672
        8068   CARDIAC STRESS TEST                    980607
        8070   OXIMETRY SERIES                        980706
        8071   BYPASS GRAFT ANGIO                     980714
        8073   IABP INSERTION                         980730
        8074   ELECTRO-PHYSIO STUDY                   980748
        9996   ANOTHER TEST FOR ANDREA                980565
        9998   PORTABLE CHARGE                        980664
        9999   STAT CHARGE                            980664
7300     305   PANEL ITEM (CAR) PRO FEE = #405        980680
         405   PRO FEE FOR (CAR) #305                 980680
        8069   CORONARY STREPTOKINASE INF.            980698
        8072   ERGONOVINE TEST                        980722


                        End of Report
End (30/4078)>
```

Contract Prices for Department/Contract Level

QUERY DESCRIPTION

Report Name: Contract Prices for Department/Contract Level

Query Name: QAG_SIM_CONTRACT_PR

Selection Criteria: SIM Department

                             Contract Level

Sort(s):   SIM Department

               SIM Code

Description:

This report lists SIM and FIM information for items with contract prices defined for a specified SIM department and contract level. The report can also be requested for "All" departments. This report could be used to review the prices for items defined for a specific contract.

Notes:

You can select a specific SIM department for this report or enter "All" to print the SIM, FIM and price information for all items (across departments) for a specific contract level. When all departments are chosen, the report breaks at SIM department.

This report is 132-characters wide.

SAMPLE QUERY

```
 Query Name: QAG_SIM_CONTRACT_PR              Routine:
     Printed: 04/26/91 at 3:18 PM
 Description: SIM Contract Prices by Contract Level
   Last edit: 04/16/91 at 8:01 AM by DBA
Last compile: 04/19/91 at 9:13 AM
```

SQL Text

```
-- Report of SIM items with contract prices set up for selected
-- department/contract level combinations.


SET     RMARGIN = 132
READ    :XDPT CHARACTER(3) HEADING
        'Enter 3-Character Department Code or All'
READ    :XLEVEL INTEGER(2) HEADING 'Enter Contract Level (1-10)'


SELECT  NULL


FROM    AG_SIM_CONTRACT C,
        AG_SIM S


WHERE   C.SIM_DPT=S.SIM_DPT
        AND C.SIM_CD=S.SIM_CD
        AND CONTR_LVL=:XLEVEL
        AND PRC IS NOT NULL
        AND UPPER(:XDPT) IN ('ALL',SIM_DPT)


ORDER BY SIM_DPT, SIM_CD


HEADER  WRITE 'Prices for Contract Level ' | :XLEVEL | ' for ' |
              UPPER (:XDPT) | ' Department '  CENTER 132
        WRITE 'Printed on ' | TODAY | ' at ' | NOW | CENTER 132


BREAK AT SIM_DPT
        WRITE ' '


DETAIL  IF ACTIVE_IND IS NULL
                SET :XACT = 'Yes'
        ELSE
                SET :XACT = 'No'
        ENDIF
```

```
        WRITE    SIM_DPT CHANGED HEADING 'SIM|Dept' COLUMN 1,
                 SIM_CD HEADING 'SIM|Code' COLUMN 5,
                 SIM_DESC HEADING 'SIM Item Description' COLUMN 14,
                 :XACT HEADING 'Act|Ind' COLUMN 50 LEFT 3,
                 FIM_CD HEADING 'FIM|Code' COLUMN 56,
                 FIM_LINK@FIM_DESC HEADING 'FIM Description' COLUMN 66
                 LEFT 33,
                 PRC HEADING 'Contract|Price' COLUMN 105


FINAL    WRITE ' '
         WRITE 'End of Report' CENTER 132
End>
```

SAMPLE QUERIES, DESCRIPTIONS, RESULTS

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Figure 8.10 Contract Prices for Department/Contract Level

```
                              Prices for Contract Level 1 for ALL Department
                                       Printed on 05/15/91 at 7:58 AM

SIM    SIM                                       Act        FIM                                              Contract
Dept   Code   SIM Item Description               Ind        Code FIM Description                               Price
----------------------------------------------------------------------------------------------------------------------

ANS     1    TEST FINANCIAL INTERFACE -------X   Yes        500110 TEST ANESTHESIA ITEM                         1.00
       3950   3-WAT STOPCOCK - TEST              Yes        939520                                             10.00

CAR     9    NEW CARDIOLOGY SERVICE ITEM         Yes        980508 RT CARDIAC CATH                             40.00
        305   PANEL ITEM (CAR) PRO FEE = #405    Yes           963 TEST ADDITION OF SIM/FIM                   250.00
       8068   CARDIAC STRESS TEST                Yes        980607 EXERCISE STUDY                             110.00

CSR     3    ADAPTER, CATHETER BD                Yes        123456 ADAPTER, CATHETER BD                         1.00
        144   BAG,PAPER #6            EA         Yes        701441 BAG,PAPER #6            EA                  76.54
        153   BAG,PAPER 1/6 BUSHEL    EA         Yes        701532 BAG,PAPER 1/6 BUSHEL    EA                 50.00

DTY     144   CALORIE, HIGH                      Yes             1 GENERAL                                     77.77

EEG     1    EEG SERVICE DESCRIPTION ONE         Yes             1 EEG SERVICE DESCRIPTION ONE             99999.99
        3    EEG STAT CHARGE                     Yes             1 EEG SERVICE DESCRIPTION ONE                 0.00

LAB    4302   VAGINAL PAP SMEAR                  Yes          4302 VAGINAL PAP SMEAR                          35.00
       4314   BUCCAL SMEAR/BARR BODY             Yes          4314 BUCCAL SMEAR/BARR BODY                     60.00
       4600   COLD AGGLUTININ                    Yes          4600 COLD AGGLUTININ                            25.00

RAD    1627   NM MISCELLANEOUS                   Yes        123123 INS BILLING DESC                          160.00

       2106   ADDITIONAL FILM                    Yes        100100 ADDITIONAL FILM                           100.00
       9997   RAD SIM INTERFACE TEST ITEM        Yes      11402262 ZYGOMATIC ARCH                             15.00

ST     5905   ABBREVIATED EVALUATION             Yes             1 ABBREVIATED EVALUATION                      1.11

       5990   COMPREHENSIVE STROKE PROG          Yes        959908 ABBREVIATED EVALUATION                      0.11

                                                  End of Report
End (117/4079)>
```

Care Plan Intervention Status Report

QUERY DESCRIPTION

Report Name: Care Plan Intervention Status Report

Query Name:QCD_INTERV

Selection Criteria: None

Sort(s): Station

Description:

This report contains a list of each patient, by station, with all interventions associated with the Care Plan(s) that have been activated for the patient. The name of the person adding the intervention as well as the date added is reported. The status of the intervention - updated or completed - and the name and date of the person updating or completing the intervention is captured. The description and code of the intervention is also printed.

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SAMPLE QUERY

```
   Query Name: QCD_INTERV                    Routine:
        Printed: 04/26/91 at 1:27 PM
  Description: NURSING QUERY 5
     Last edit: 04/23/91 at 2:24 PM by DBA
Last compile: 04/26/91 at 9:46 AM
```

SQL Text

```
--  Care Plan interventions status with the name of the professional
--  who added the intervention, when updated and when completed and
--  with the name of the professional updating and completing the
--  intervention.


SELECT  STATION HEADING 'Stn',
        PAT_NAME HEADING 'Patient Name',
        INT_CD HEADING 'Code',
        INT_DESC HEADING 'Description',
        STATUS HEADING 'Status',
        ADDED_BY HEADING 'Added By',
        ADDED_DT_TM HEADING 'Added Date & Time',
        UPDATED_BY  HEADING 'Updated By',
        UPDATED_DT_TM HEADING 'Updated Date & Time',
        COMPL_BY HEADING 'Completed By',
        COMPL_DT_TM HEADING 'Completed Date & Time'


FROM    CD_INTERV,
        AG_MEDICAL


WHERE   CD_INTERV.INTN=AG_MEDICAL.INTN
        AND CD_INTERV.AN=AG_MEDICAL.AN


ORDER BY STATION


End>
```

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Figure 8.11 Care Plan Intervention Status Report

```
                               QCD_INTERV
                        Printed on 04/26/91 at 1:27 PM

Stn  Patient Name                   Code  Description
     Status    Added By               Added Date & Time   Updated By
     Updated Date & Time  Completed By        Completed Date & Time
---------------------------------------------------------------------------
1E   BAKKERS,BRITTANY ANNE          1001  ADL'S, ASSIST WITH
     Active    Peterson,Martha      12/13/90            Peterson,Martha
     12/13/90
1E   BAKKERS,BRITTANY ANNE          3002  RESOURCES, COMMUNITY, REFER TO
     Active    Owens,Janice         12/13/90            Crawford,Terri
     12/13/90
3S   CHAMBERS,HARLAND J             3003  ACTIVITY, INCREASE AS TOL
     Active    Simpson,Clarence     12/13/90            Simpson,Clarence
     12/13/90
2E   DOWLING,GREG                   3015  REFERRAL TO CARDIAC REHAB
     Active    Edwards,Tracy        12/13/90            Dixon,Mabel
     12/13/90
1S   FORRESTALL,REGINA              3033  GOALS, DISCH, PT. SET
     Complete  Klaus,Simone         11/29/90            Klaus,Simone
     11/29/90          Klaus,Simone         11/29/90
1W   GARRISON,HOWARD                4017  OXYGEN THERAPY
     Complete  Lauer,Cheryl         11/29/90            Nottingham,Paul
     11/29/90          Nottingham,Paul      11/29/90
1S   JENKINS,PAULINE                4020  AMBULATION, ASSISTIVE DEVICE
     Active    Klaus,Simone         12/13/90            Potter,Stacy
     12/13/90
2S   MERRIWETHER,EDWARD P           4021  TRANSFER, ASSISTIVE DEVICE
     Active    Balkens,Tracy A      12/13/90            Balkens,Tracy A
     12/13/90
1E   POTTERDAM,GROVER               4022  PLAN FOR ACTIVITY, INVOLVE PT
     Active    Fowler,Debra P       12/13/90            Manchester,Cindi
     12/13/90
4N   STAMPER,HANK                   5001  ACTIVITIES, SCHEDULE
     Active    Newton,Brenda        12/13/90            Stanford,Leland
     12/13/90
3W   SUISLAW,JENNY                  6003  ABG, MONITOR
     Active    Evenwrite,Nancy      03/04/91            Bubb,Vivian
     03/04/91
2S   WAKONDA,BRIAN                  6016  MONITOR HEART RHYTHM
     Active    Balkens,Tracy A      12/13/90            Crabtree,Evelyn
     12/13/90

End (87/508)>
```

Inpatient Name and Diagnosis

QUERY DESCRIPTION

Report Name: Inpatient Name and Diagnosis

Query Name: QCD_DIAG

Selection Criteria: None

Sort(s): Patient

Description:

This report contains a list of all inpatients with their diagnosis and the diagnosis code.

SAMPLE QUERY

```
  Query Name: QCD_DIAG                        Routine:
      Printed: 05/06/91 at 2:50 PM
 Description: Patient Name and Diagnosis
   Last edit: 05/06/91 at 1:27 PM by DBA
Last compile: 03/19/91 at 2:45 PM

SQL Text
========
-- Report provides a list of inpatient names and their diagnosis

SELECT  PAT_NAME HEADING 'Patient Name',
        WK_DIAG_CD HEADING 'Diagnosis Code',
        WK_DIAG HEADING 'Diagnosis Description'

FROM    AG_STN_ROOM_BED

WHERE   OCCUPIED = 'YES'

End>
```

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Figure 8.12 Inpatient Name and Diagnosis

```
                              QCD_DIAG
                      Printed on 05/07/91 at 9:03 AM

Patient Name                  Diagnosis Code  Diagnosis Description
-------------------------------------------------------------------------------
RUSE,GUY F                    188             2
BOUDENS,BRITTANY ANNE         8799            879.9-OPN WOUND SITE NOS-COMPL

End (2/2)>
```

Inpatient Name and DRG

QUERY DESCRIPTION

Report Name: Inpatient Name and DRG

Query Name:QCD_DRG

Selection Criteria: None

Sort(s): None

Description:

This report contains a list of all inpatients with their associated DRG and DRG code.

SAMPLE QUERY

```
  Query Name: QCD_DRG                              Routine:
      Printed: 05/06/91 at 2:51 PM
 Description: Patient Name and Associated DRG
   Last edit: 05/06/95 at 1:29 PM by DBA
Last compile: 04/26/95 at 3:24 PM

SQL Text
========
--  List of inpatients with their associated DRG's


SELECT  A.PAT_NAME HEADING 'Patient Name',
        B.DRG_FINAL_NBR HEADING 'DRG Number',
        C.DRG_DESC HEADING 'DRG Description'

FROM    AG_STN_ROOM_BED A,
        CE_ABST_DRG B,
        CE_RATE_MASTER C

WHERE   A.OCCUPIED = 'YES'
  AND   A.INTN = B.INTN
  AND   A.AN = B.AN
  AND   EXTRACT(A.AN,1) = C.FAC
  AND   B.TBL_NBR_DRG_NBR = C.TBL_NBR_DRG_NBR
  AND   B.DRG_PAYOR = C.DRG_PAYOR_CD


End>
```

Figure 8.13 Inpatient Name and DRG

```
                            QCD_DRG
                    Printed on 05/07/91 at 9:11 AM

Patient Name                    DRG Number  DRG Description
-------------------------------------------------------------------
RUSE,GUY F                         188   OTHR DIG DX 18+,W CC MED
BOUDENS,BRITTANY ANNE              8799

End (2/2)>
```

Incomplete History & Physical Report

QUERY DESCRIPTION

Report Name:Incomplete History & Physical Report

Query Name:QCM_INCOMPLETE_HPS_BY_PHYS

Selection Criteria: None

Sort(s):   Physician

Patient Name

Description:

This report contains a list, by physician, of those patients whose chart contains an incomplete History & Physical. The report displays the date the deficiency was assigned, the date the chart is due, and the number of days pass due for the deficiency.

Notes:

The query uses the deficiency code, which varies by facility. If HP is not the deficiency code for History & Physical at your facility, the query needs to be modified. The query can be modified to report on any of the deficiency codes found in your Chart Deficiency Code Table.

SAMPLE QUERY

```
   Query Name: QCM_INCOMPLETE_HPS_BY_PHYS      Routine:
      Printed: 04/27/91 at 1:29 PM
 Description: LIST OF PATIENTS WITH INCOMPLETE HPS BY PHYSICIAN
    Last edit: 03/30/91 at 11:16 AM by DBA
Last compile: 03/30/91 at 11:07 AM

SQL Text
-- This report provides a list of patients, by physician, whose
-- charts contain an incomplete History & Physical.

SELECT  PHY_NAME HEADING 'DOCTOR' CHANGED,
        DEMOG_LINK@PAT_NAME HEADING 'PT NAME' SKIP 2 COLUMN 5,
        MED_LINK@PAT_ACCT_NBR HEADING 'ACCT NUM',
        DUE_DT HEADING 'CHART DUE DATE',
        DEF_TYPE HEADING 'TYPE',
        ASSIGN_DT HEADING 'DEF DUE DATE',
        DAYS_PAST_DUE HEADING 'DAYS OVERDUE'


FROM    CM_DEF_HDR, CM_DEF_INFO


WHERE   COMPL_DT IS NULL AND DEF_CD = 'HP' AND DAYS_PAST_DUE > 0
        AND CM_DEF_HDR.INTN = CM_DEF_INFO.INTN
        AND CM_DEF_HDR.AN = CM_DEF_INFO.AN


ORDER BY PHY_NAME, DEMOG_LINK@PAT_NAME


HEADER  WRITE 'OVERDUE HISTORY & PHYSICALS' CENTER 79


End>
```

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Figure 8.14 Incomplete History & Physical Report

```
                            OVERDUE HISTORY & PHYSICALS

DOCTOR
      PT NAME                         ACCT NUM        CHART DUE DATE
      TYPE                     DEF DUE DATE  DAYS OVERDUE
------------------------------------------------------------------------------
ADAMS,HAROLD R

      PADEN,ANDREA                    A9034600001    02/25/91
      SIGN               12/12/90                 131
CRELUCK,RICHARD K

      ANDREWS,LUCRETIA                A9033700001    12/14/90
      SIGN               12/11/90                 135
End (2/43)>
```

Department Appointment / Visit Length Summary

QUERY DESCRIPTION

Report Name: Department Appointment / Visit Length Summary

Query Name:QCK_APPT_VISIT_LNGTH_COMPARE

Selection Criteria: Facility

Department Code or ALL

Date Range

Sort(s): Department, Resource ALLSTAR ID and Appointment Type

Description:

This report contains a list of resources with appointment information displaying the average appointment length, the average time the patient spent in the department and the variance. This information is reported by appointment type with totals for each resource as well as the department. You can enter one department or enter "ALL" to include all departments on the report. If all departments are printed, the report page breaks at each department change to allow for easy separation and distribution.

The report could be used to show the amount of time that patients spend in the department in excess of the average appointment length.

This sample query demonstrates accessing resource schedule information for a specified date range using read statements, sorting the information in department and resource order as well as averaging calculated totals.

Notes:

Do not generate this query for a large date range.

The average time the patient spent in the department represents the difference between the Check In and Check Out times entered for the appointment.

SAMPLE QUERY

```
   Query Name: QCK_APPT_VISIT_LNGTH_COMPARE        Routine:
       Printed: 04/26/91 at 1:31 PM
  Description: Department Appointment / Visit Length Summary
     Last edit: 04/11/91 at 10:39 AM by DBA
 Last compile: 04/11/91 at 10:44 AM
```

SQL Text

```
--          This report lists the average appointment length, the average
--          visit length and their variance in department, resource  and
--          appointment type order.  The averages are calculated based on
--          appointment type for each resource.  Averages are also summarized
--          for each resource as well each department.  The report provides
--          the capability of entering a department code to access a single
--          department or can be printed for all departments by entering ALL.
--          When printed or all departments, the report page breaks at each
--          department change.


READ    :XFAC CHARACTER(1) HEADING 'Enter Facility'
READ    :XDPT CHARACTER(3) HEADING
                'Enter the Scheduling Department Code or ALL'


READ    :XBD DATE HEADING 'Enter date to begin'
READ    :XED DATE HEADING 'Enter date to end'


SELECT  RESOURCE_CD HEADING 'Resource ID' CHANGED COLUMN 4 LEFT 14
PAGE 5,
        EXTRACT(RESOURCE_NM,1,16) HEADING 'Resource Name' CHANGED
                LEFT 16 COLUMN 20,
        APPT_TYPE HEADING 'Type' COLUMN 38,
        AVG(APPT_LGTH) HEADING 'Avg Appt|Length' COLUMN 44,
        AVG(CHK_OUT_TM - CHK_IN_TM) HEADING 'Avg Vst|Length'
                COLUMN 56,
        AVG((CHK_OUT_TM - CHK_IN_TM) - APPT_LGTH)
                HEADING 'Variance' COLUMN 68


FROM    CK_RES_SCHED_APPT


WHERE   FAC = UPPER(:XFAC)
        AND APPT_DT >= :XBD AND APPT_DT <= :XED
        AND UPPER(:XDPT) IN (DEPT_CD, 'ALL')
```

```
        GROUP BY DEPT_CD, RESOURCE_CD, APPT_TYPE


        ORDER BY DEPT_CD, RESOURCE_CD


        HEADER  WRITE   'STAR Scheduling - Facility ' | UPPER(:XFAC) CENTER
                        80,
               'Appointment / Visit Length Comparison Summary'
        CENTER 80 SKIP 2,
                'For ' | UPPER(:XDPT) | ' From ' | :XBD | ' Thru ' |
        :XED CENTER 80 SKIP,
                    'Printed on ' | TODAY | ' ' | TIME CENTER 80 SKIP


        BREAK AT 1
               WRITE   'Department: ' | DEPT_NM PAGE, '' SKIP 1


        BREAK AFTER 2
               WRITE   'Total' COLUMN 38 SKIP 2,
                       AVG(APPT_LGTH) COLUMN 44,
                       AVG(CHK_OUT_TM - CHK_IN_TM) COLUMN 56,
                       AVG((CHK_OUT_TM - CHK_IN_TM) - APPT_LGTH) COLUMN  68,
                       '' SKIP 1


        BREAK AFTER 1
               WRITE   'Total for ' | EXTRACT(DEPT_NM,1,25) LEFT 25 SKIP 3,
                       AVG(APPT_LGTH) COLUMN 44,
                       AVG(CHK_OUT_TM - CHK_IN_TM) COLUMN 56,
                       AVG((CHK_OUT_TM - CHK_IN_TM) - APPT_LGTH) COLUMN 68


        End>
```

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Figure 8.15 Department Appointment/Visit Length Summary

```
                       STAR Scheduling - Facility A

                 Appointment / Visit Length Comparison Summary
                   For RAD From 05/09/91 Thru 05/09/91
                      Printed on 05/09/91 12:50 PM

                                        Avg Appt     Avg Vst
     Resource ID       Resource Name    Type    Length       Length    Variance
 -------------------------------------------------------------------------------
 Department: RADIOLOGY

    RAD,RAD,10000      CT ROOM 1         ~WI     30.00        27.00      -3.00

                                        Total   30.00        27.00      -3.00

    RAD,RAD,10001      CT ROOM 2         EXAM    30.00        40.00      10.00

                                        Total   30.00        40.00      10.00

    RAD,RAD,800        ULTRASOUND        ~WI     45.00        50.00       5.00

                                        Total   45.00        50.00       5.00

    RAD,RAD,801        MAMMOGRAM         EXAM    30.00        31.00       1.00

                                        Total   30.00        31.00       1.00

 Total for RADIOLOGY                             30.00        31.00       1.00

 End (12/18)>
```

Departmental Clerk Productivity Report

QUERY DESCRIPTION

Report Name: Departmental Clerk Productivity Report

Query Name: QCK_CLERK_PROD

Selection Criteria: Facility

Employee Department Code

Date Range

Sort(s): Department Code, Clerk Name and Appointment Type

Description:

This report contains a list of clerks that entered appointments and walk-ins as well as performed cancellations. It reports the average number of Appointments, Walk-ins and Cancellations as well as the average number of seconds taken. It allows entry of the facility, the employee's department and date ranges. It is sorted by the Employee's Department Code, by Clerk Last Name and Appointment Type (Appointments, Walk-Ins, Cancellations). The report can be printed for only one department by entering the employee's numeric department code or for all departments by entering "9999". Please note that the word "ALL" can not be used in this situation because the Department Code field is numeric. When all departments are printed, each new department begins on a new page to allow for easy separation and distribution.

The report could be used to show the number of transactions occurring for each clerk as well as the amount of time taken. It differs from the Clerk Productivity Report found in the Base Scheduling module in the following ways:

- Allows selection of a department instead of requiring that all clerks be printed

- Sorted by Department order instead of Clerk ALLSTAR ID when printing more than one department

- Averages data for the dates selected instead of listing the data for each date

- Gives the clerk's name in addition to the ID number

- Includes averages on the amount of time taken in addition to the average number

This sample query demonstrates accessing clerk productivity information by facility, department and date range using read statements. It also uses foreign keys to access and print from two tables without using joins.

Notes:

- Do not generate this query for a large date range.

- The Clerk Productivity Information being reported against does not include the clerk's department. For this reason, the department is being determined from the Hospital Employee File in Patient Care. The Department listed represents the employee's current department, not the department they were working in on the day the transaction occurred.

SAMPLE QUERY

```
   Query Name: QCK_CLERK_PROD                    Routine:
       Printed: 04/26/91 at 1:33 PM
  Description: DEPARTMENTAL CLERK PRODUCTIVITY REPORT
    Last edit: 04/22/91 at 9:22 AM by DBA
Last compile: 04/22/91 at 9:26 AM

SQL Text
--      This report lists each clerk using the Scheduling Module in
--      Department Order, which is determined from the Hospital
--      Employee File, not the Scheduling Department.  It lists the
--      clerk in name order followed by the average number and time
--      spent for each appointment type (appointments, cancellations, --
walk ins) for the given date range, department and facility.
--      The one or all departments can be printed.  If the numeric
--      Hospital Employee Department Code is entered, all employees
--      currently in that department as contained in the Hospital
--      Employee Master that  have performed scheduling activity will
--      be printed.  If 9999 is entered, all employees that have
--      performed scheduling activity  will  be printed.


READ    :XFAC CHARACTER(1) HEADING 'Enter Facility'
READ    :XDPT INTEGER(8) HEADING
        'Enter Employee Department Code or 9999 for all departments'
READ    :XBD DATE HEADING 'Enter date to begin'
READ    :XED DATE HEADING 'Enter date to end'


SELECT  CLERK_ID HEADING 'Clerk ID' CHANGED RIGHT 10 COLUMN 3 PAGE 3,
        UPPER(EXTRACT(CLERK_NAME,1,25)) HEADING 'Clerk Name' CHANGED
              LEFT 25 COLUMN 15,
        EXTRACT(APPT_TYPE,1,12) HEADING 'Appt Type' LEFT 12 COLUMN 42,
        AVG(TOT_APPTS) HEADING 'Avg # Apts' COLUMN 56,
        (AVG(TOT_TIME) / 60) HEADING 'Avg Min' COLUMN 68


FROM    CK_CLERK_PROD


WHERE   FAC = UPPER(:XFAC)
        AND APPT_DT >= :XBD
        AND APPT_DT <= :XED
        AND :XDPT IN (CLERK_DEPT_CD,'9999')


GROUP BY CLERK_DEPT_CD, UPPER(CLERK_NAME), APPT_TYP_CD
```

```
        ORDER BY CLERK_DEPT_CD, CLERK_ID


        BREAK AT 1
                WRITE 'Dept: ' | CLERK_DEPT_DESC PAGE, '' SKIP 1


        BREAK AFTER 2 SKIP 1

        HEADER   WRITE    'STAR Patient Care Scheduling - Facility ' |
                             UPPER(:XFAC) CENTER 80,
                      'Department Clerk Productivity Report' CENTER 80 SKIP  2,
                      'For ' | :XBD | ' Thru ' | :XED CENTER 80 SKIP,
                      'Printed on ' | TODAY | ' ' | TIME CENTER 80 SKIP
        End>
```

Figure 8.16 Departmental Clerk Productivity Report

```
                    STAR Patient Care Scheduling - Facility A

                      Department Clerk Productivity Report
                         For 05/09/91 Thru 05/09/91
                         Printed on 05/09/91 1:20 PM

     Clerk ID        Clerk Name          Appt Type              Avg # Apts              Avg Min
-----------------------------------------------------------------------------
Dept: RADIOLOGY

    19535           FRANKLIN,SALLY       Appointment              11.00                 6.73
                                         Cancellation              2.00                 3.00
                                         Walk-In                   5.00                 7.98

    19521           GUY,FRANK            Appointment              11.00                 6.73
                                         Walk-In                   5.00                 7.98

End (5/13)>
```

Resource Schedule Instruction List

QUERY DESCRIPTION

Report Name: Resource Schedule Instruction List

Query Name:QCK_RES_SCHED_INST

Selection Criteria: Facility

                               Resource ALLSTAR ID, Department or ALL

                               Date

Sort(s): Department, Resource ALLSTAR ID and Appointment Time

Description:

This report contains a list of the appointments for the facility, date and department or resource. Each appointment is listed with the associated Department Headers and any Scheduling Instructions built.

One resource's schedule can be printed by entering the Resource ALLSTAR ID (DPT,SPC,######). All the resource's schedules in one department can be printed by entering the Scheduling Department Code. All resource's schedules can be printed for all departments by entering "ALL".

Regardless of the selection options used, each resource's schedule begins on a separate page to allow for easy separation and distribution. In addition, a page eject is done if there are not seventeen (17) lines available to print the next appointment.

This report could be used as a worklist for each resource to insure that necessary preparations have been done prior to the patient arriving for their appointment.

This sample query demonstrates accessing resource schedule information for a specific facility, Resource/Department/ALL and date, sorting information in department, resource and appointment time order. To access the information, three tables are accessed using foreign keys.

SAMPLE QUERY

```
   Query Name: QCK_RES_SCHED_INST              Routine:
        Printed: 04/26/91 at 1:34 PM
   Description: RESOURCE SCHEDULE INSTRUCTION LIST
      Last edit: 04/11/91 at 9:58 AM by DBA
 Last compile: 04/11/91 at 10:09 AM
```

SQL Text

```
-- This report lists all the resource's appointments that have a SIM
-- Code in the Visit Reason field.  If Department Headers have been
-- built, they will be included followed by any SIM Item Scheduling
-- Instructions.  The report is in Department and Resource order.
-- It allows selection of Facility, Resource ALLSTAR ID or Department

-- Code or ALL and the Schedule Date. When the Resource ALLSTAR ID is
-- entered, it must be in the format of (DPT,SPC,999999).  This will
-- generate a list of only that resource's schedule.  If the

-- Scheduling Department Code is entered, you will receive a list for
-- all resource's within that department.  If you enter ALL, you will
-- a list of all resource's schedules for the specific date.

-- The report is in Department order followed by Resource ALLSTAR ID.

-- Each department and resource begins a new page. Each appointment
-- will also page break if there are not 17 lines remaining before
-- the end of the page.

READ    :XFAC CHARACTER(1) HEADING 'Enter Facility'
READ    :XRES CHARACTER(14) HEADING
        'Enter Resource ALLSTAR ID, Department Code or ALL (all
resources)'
READ    :XDATE DATE HEADING 'Enter Schedule Date'

SELECT  APPT_TM HEADING 'Time' PAGE 17 SKIP,
        APPT_TYPE HEADING 'Type' COLUMN 11,
        APPT_LGTH │ ' Min' HEADING 'Length' COLUMN 20,
        EXTRACT(PAT_NAME,1,20) HEADING 'Patient Name' LEFT 20 COLUMN
42,
        DEMOG_LINK@SEX HEADING 'Sex' COLUMN 64,
        DEMOG_LINK@BIRTHDATE HEADING 'Birthdate' COLUMN 69,
```

```
          SIM_CODE HEADING 'Code' COLUMN 4,
        EXTRACT(SIM_DESC,1,30) HEADING 'SIM Description' LEFT 30 COLUMN
11,
          DEMOG_LINK@UNIT_NBR HEADING 'Unit #' COLUMN 42,
          PAT_ACCT_NBR HEADING 'Acct #' COLUMN 64,
          SIM_DEPT_INST_LINK@CK_DEPT_HDR_LINK@HDR_DESC_1
                  HEADING 'Department Header' COLUMN 11,
          SIM_DEPT_INST_LINK@INST_TEXT_1_1
                  HEADING 'Scheduling Instructions' COLUMN 20,
          SIM_DEPT_INST_LINK@INST_TEXT_1_2 HEADING '' COLUMN 20,

          SIM_DEPT_INST_LINK@CK_DEPT_HDR_LINK@HDR_DESC_2 HEADING ''
                  COLUMN 11,
          SIM_DEPT_INST_LINK@INST_TEXT_2_1 HEADING '' COLUMN 20,
          SIM_DEPT_INST_LINK@INST_TEXT_2_2 HEADING '' COLUMN 20,
          SIM_DEPT_INST_LINK@CK_DEPT_HDR_LINK@HDR_DESC_3 HEADING ''
                  COLUMN 11,
          SIM_DEPT_INST_LINK@INST_TEXT_3_1 HEADING '' COLUMN 20,
          SIM_DEPT_INST_LINK@INST_TEXT_3_2 HEADING '' COLUMN 20,
          SIM_DEPT_INST_LINK@CK_DEPT_HDR_LINK@HDR_DESC_4 HEADING ''
                  COLUMN 11,
          SIM_DEPT_INST_LINK@INST_TEXT_4_1 HEADING '' COLUMN 20,
          SIM_DEPT_INST_LINK@INST_TEXT_4_2 HEADING '' COLUMN 20,
          SIM_DEPT_INST_LINK@CK_DEPT_HDR_LINK@HDR_DESC_5 HEADING ''
                  COLUMN 11,
          SIM_DEPT_INST_LINK@INST_TEXT_5_1 HEADING '' COLUMN 20,
          SIM_DEPT_INST_LINK@INST_TEXT_5_2 HEADING '' COLUMN 20

  FROM    CK_RES_SCHED_APPT

  WHERE   FAC = UPPER(:XFAC)
          AND APPT_DT = :XDATE
          AND UPPER(:XRES) IN (RESOURCE_CD, DEPT_CD,'ALL')

  ORDER BY RESOURCE_CD

  BREAK AT 1
          WRITE   'Department: ' | DEPT_NM PAGE,
                  'Resource  : ' | RESOURCE_CD | '  ' | RESOURCE_NM

  HEADER  WRITE
                  'STAR Patient Care Scheduling - Facility ' |
```

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```
                           UPPER(:XFAC) CENTER 80,
                  'Department / Resource Schedule Instruction List'
                           CENTER 80 SKIP 2,
                  'For ' | UPPER(:XRES) | ' on ' | :XDATE CENTER 80 SKIP,
                  'Printed on ' | TODAY | ' ' | TIME CENTER 80 SKIP


         End>
```

Figure 8.17 Resource Schedule Instruction List

```
                        STAR Patient Care Scheduling - Facility A

                        Department / Resource Schedule Instruction List
                                  For RAD,RAD,10000 on 05/09/91
                                   Printed on 05/09/91 2:05 PM

Time            Type     Length             Patient Name            Sex      Birthdate
     Code        SIM Description                 Unit #                      Acct #
                 Department Header
                          Scheduling Instructions
-------------------------------------------------------------------------------
Department: RADIOLOGY
Resource  : RAD,RAD,10000  CT ROOM 1

7:00 AM         EXAM     30 Min             DAVIS,CHARLES             M       12/12/12
     2516         CHEST PORTABLE
                  DEPARTMENT INFORMATION
                          Portable chest procedure requires 5-10 minutes
                          for the equipment to reach the ward.
                  PATIENT INFORMATION

                  PREP INSTRUCTIONS
                          Please ensure that all metallic objects may
                          be removed from the field as needed.
                  POST PROCEDURE INSTRUCTIONS

                  ADDITIONAL INSTRUCTIONS

3:10 PM         ~WI      30 Min             SMITH,BARBARA             F       12/12/12
     2003        CHEST FOR RIBS                 A0000104875
                 DEPARTMENT INFORMATION
                          MAKE SURE PATIENT IS NOT WEARING ANY JEWELRY


                 PATIENT INFORMATION

                 PREP INSTRUCTIONS

                 POST PROCEDURE INSTRUCTIONS

                 ADDITIONAL INSTRUCTIONS
End>
```

Scheduling SIM Item Instructions

QUERY DESCRIPTION

Report Name: Scheduling SIM Item Instructions

Query Name:QCK_SIM_ITEM_INSTRUCTIONS

Selection Criteria: SIM Department Code

SIM Item Code Range

Sort(s):SIM Item Code

Description:

This report contains a list of SIM Items for the SIM Department entered that have SIM Item Scheduling Instructions built. It allows entry of the SIM Department Code and a SIM Item Code to begin with and one to end with. This allows for printing of one or multiple SIM Items from a single department. The report lists the Department Headers defined followed by any SIM Item Scheduling Instructions entered.

This report could be used to review the instructions already identified by the department as well as used as a preparation list given to the patient when a follow-up appointment is scheduled. It could be generated for one SIM Item and attached to the existing Appointment Slip.

This sample query demonstrates accessing Scheduling Instruction information for a specific SIM Department allowing entry of item number ranges. A foreign key is used to access the two tables so that joins are not needed.

Notes:

- During peak system operation, be careful to request small number ranges instead of printing all items in one department.

- In order to insure that all header and instruction information prints on one page together, the report page breaks if there are not sixteen (16) lines remaining before the end of the page. This means that there are a limited number of items that can print on each page.

SAMPLE QUERY

```
   Query Name: QCK_SIM_ITEM_INSTRUCTIONS          Routine:
       Printed: 04/26/91 at 3:05 PM
   Description: Scheduling SIM Item Instructions
     Last edit: 04/11/91 at 2:25 PM by DBA
Last compile: 04/11/91 at 2:36 PM
```

SQL Text

```
--      This report lists the Department Headers defined for the SIM
--      Department entered as well as the SIM Item Scheduling
--      Instructions built for any of the SIM Items in that department
--      between the Beginning and Ending SIM Item numbers entered.
--      Only SIM Items with Scheduling Instructions defined will be
--      printed.  Each SIM Item will begin a new page if there are not
--      16 lines remaining before the end of the page.


READ    :XDPT CHARACTER(3) HEADING 'Enter SIM Department Code'
READ    :XBSIM INTEGER(6) HEADING  'Enter Beginning SIM Item Code'
READ    :XESIM INTEGER(6) HEADING 'Enter Ending SIM Item Code'


SELECT  SIM_CD HEADING 'Code' CHANGED SKIP PAGE 16,
        SIM_DESC HEADING 'SIM Description' COLUMN 8,
        CK_DEPT_HDR_LINK@HDR_DESC_1 HEADING 'Department Information'
                COLUMN 15,
        INST_TEXT_1_1 HEADING 'Item Instructions'COLUMN 20,
        INST_TEXT_1_2 HEADING '' COLUMN 20,
        CK_DEPT_HDR_LINK@HDR_DESC_2 HEADING '' COLUMN 15,
        INST_TEXT_2_1 HEADING '' COLUMN 20,
        INST_TEXT_2_2 HEADING '' COLUMN 20,
        CK_DEPT_HDR_LINK@HDR_DESC_3 HEADING '' COLUMN 15,
        INST_TEXT_3_1 HEADING '' COLUMN 20,
        INST_TEXT_3_2 HEADING '' COLUMN 20,
        CK_DEPT_HDR_LINK@HDR_DESC_4 HEADING '' COLUMN 15,
        INST_TEXT_4_1 HEADING '' COLUMN 20,
        INST_TEXT_4_2 HEADING '' COLUMN 20,
        CK_DEPT_HDR_LINK@HDR_DESC_5 HEADING '' COLUMN 15,
        INST_TEXT_5_1 HEADING '' COLUMN 20,
        INST_TEXT_5_2 HEADING '' COLUMN 20


FROM    CK_SIM_DEPT_INST
```

```
WHERE    UPPER(:XDPT) = DEPT_CD

         AND SIM_CD >= :XBSIM

         AND SIM_CD <= :XESIM


HEADER   WRITE    'STAR Scheduling' CENTER 80,

                  'SIM Item Scheduling Instruction List' CENTER 80 SKIP  2,

                  'For ' | UPPER(DEPT_NAME) | ' From SIM Item #' |
:XBSIM|

                  ' Thru #' | :XESIM CENTER 80 SKIP,

                  'Printed on ' | TODAY | ' on ' | TIME CENTER 80 SKIP

         End>
```

Figure 8.18 Scheduling SIM Item Instructions

```
                              STAR Scheduling

                       SIM Item Scheduling Instruction List
                      For RADIOLOGY From SIM Item #2500 Thru #3000
                             Printed on 05/09/91 at 2:45 PM

Code      SIM Description
                    Department Information
                      Item Instructions
--------------------------------------------------------------------------------

2516      CHEST PORTABLE
                    DEPARTMENT INFORMATION
                        Portable chest procedure requires 5-10 minutes
                        for the equipment to reach the ward.
                    PATIENT INFORMATION

                    PREP INSTRUCTIONS
                        Please ensure that all metallic objects may
                        be removed from the field as needed.
                    POST PROCEDURE INSTRUCTIONS

                    ADDITIONAL INSTRUCTIONS

2915      BARIUM SWALLOW/UGI
                    DEPARTMENT INFORMATION
                       GO TO REGISTRATION AREA FOR INS VERIFICATION

                    PATIENT INFORMATION
                        PATIENT SHOULD BE NPO AFTER MN
                        ARRIVE IN RAD DEPT 1-1.5 HRS. BEFORE TEST
                    PREP INSTRUCTIONS
                        COMPLETE PATIENT PROFILE SHEET
                        ALLOW APPROX. 3 HRS. FOR TOTAL PROC. TIME
                    POST PROCEDURE INSTRUCTIONS
                        CALL PAT. PHYSICIAN FOR OFFICE FOLLOW-UP
                    ADDITIONAL INSTRUCTIONS
End>
```

Diagnosis Index

QUERY DESCRIPTION

Report Name: Diagnosis Index

Query Name:QCE_DIAGNOSIS_INDEX

Selection Criteria: Beginning Discharge Date

                               Ending Discharge Date

                               Facility

Sort(s):Principal Diagnosis

Description:

This report contains a list, by principal diagnosis, of those patients who were discharged with that diagnosis. The patients are listed in alphabetical order under each diagnosis. The report includes the dates of admission and discharge, the sex of the patient, the attending physician number, the discharge disposition, and any secondary diagnoses.

Notes:

The query allows selection of the beginning and ending discharge dates to include in the report, and places these dates in the header information.

SAMPLE QUERY

```
   Query Name: QCE_DIAGNOSIS_INDEX                 Routine:
        Printed: 05/15/91 at 3:14 PM
   Description: COPY OF QCE DIAGNOSIS INDEX FOR DATA PROBLEMS
      Last edit: 05/15/91 at 9:32 AM by DBA
Last compile: 05/15/91 at 9:39 AM


SQL Text
========
READ    :XBDISCHARGE DATE HEADING 'Enter Beginning Discharge Date',
        :XEDISCHARGE DATE HEADING 'Enter Ending Discharge Date',
        :XFAC CHAR(1) HEADING 'Enter Facility'


SET RMARGIN  = 132


SELECT DIAG_LINK@PR_DIAG_DESC HEADING 'PRIN DIAG' COLUMN 1 CHANGED SKIP 1,
        PAT_NAME HEADING 'PATIENT NAME' LEFT 25 COLUMN 5 CHANGED,
        DEMOG_LINK@UNIT_NBR HEADING 'UNIT  NBR' LEFT 12 COLUMN 30 CHANGED,
        PAT_ACCT_NBR HEADING 'ACCT NBR' LEFT 12 COLUMN 45 CHANGED,
        MED_LINK@ADM_DT HEADING 'ADM DATE' LEFT 10 COLUMN 60 CHANGED,
        MED_LINK@DSCHRG_DT HEADING 'DIS DATE' LEFT 10 COLUMN 70 CHANGED,
        MED_LINK@DSCHRG_COND HEADING 'DISP' LEFT 3 COLUMN 80 CHANGED,
        DEMOG_LINK@SEX HEADING 'SEX' LEFT 2 COLUMN 85 CHANGED,
        MED_LINK@ATTEND_PHY HEADING 'DR' LEFT 6 COLUMN 90 CHANGED,
        SEC_DIAG_DESC HEADING 'SECONDARY DIAGNOSES' LEFT 30 COLUMN 100


FROM    CE_ABST_DIAG_SEC D, AG_DSCHRG_DT_IDX A


WHERE   DSCHRG_DT BETWEEN :XBDISCHARGE AND :XEDISCHARGE AND
        FAC = :XFAC AND DEMOG_LINK@UNIT_NBR LIKE 'A%'
        AND A.INTN=D.INTN
        AND A.AN=D.AN


ORDER BY        DIAG_LINK@PR_DIAG_CD, PAT_NAME, PAT_ACCT_NBR


BREAK AT        1
SET             :XPC = 0


BREAK AFTER     3
SET             :XPC = :XPC + 1
```

```
         BREAK AFTER     1
         WRITE    'Total Number of Discharges for ' | DIAG_LINK@PR_DIAG_DESC |
                        ':  ' | :XPC
         WRITE    ' '
         WRITE    ' '


         HEADER  WRITE 'DIAGNOSES INDEX' CENTER 132
                 WRITE 'For ' | :XBDISCHARGE | '-' | :XEDISCHARGE CENTER 132
         End>
```

Figure 8.19 Diagnosis Index

```
                                    DIAGNOSES INDEX
                                  For 02/01/91-02/28/91

 PRIN DIAG
    PATIENT NAME              UNIT  NBR      ACCT NBR      ADM DATE  DIS DATE  DISP SEX  DR      SECONDARY DIAGNOSES
--------------------------------------------------------------------------------------------------------------------
 001.0-CHOLERA D/T VIB CHOLERAE
    AA,BB B                  A0000000631    A9104900002   02/18/91  02/18/91  DIS  M    5236    002.1-PARATYPHOID FEVER A
Total Number of Discharges for 001.0-CHOLERA D/T VIB CHOLERAE:  1


 001.1-CHOLERA D/T VIB EL TOR
    BEINKE,HCCBC             A0000000619    A9104500001   02/14/91  02/15/91  DIS  F    100     002.0-TYPHOID FEVER
Total Number of Discharges for 001.1-CHOLERA D/T VIB EL TOR:  1


 010.02-PRIM TB COMPLEX-EXM UNKN
    LAGER,MIKE              A0000000613    A9104200003   02/11/91  02/12/91  DIS  M    45      001.9-CHOLERA NOS
                                                                                              290.11-PRESENILE DELIRIUM
                                                                                              331.0-ALZHEIMER'S DISEASE
                                                                                              V80.2-SCREENING-EYE COND NEC
                                                                                              872.11-OPEN WOUND AURICLE-COMP
                                                                                              301.51-CHR FACTITIOUS ILLNESS

Total Number of Discharges for 010.02-PRIM TB COMPLEX-EXM UNKN:  1


 013.36-TB BRAIN ABSC-OTH TEST
    BEINKE,HCCBA            A0000000609    A9103700004   02/06/91  02/07/91  DIS  M    5       015.00-TB OF VERTEBRA-UNSPEC
                                                                                              015.02-TB OF VERTEBRA-EXAM UNK
                                                                                              015.03-TB OF VERTEBRA-MICRO DX
                                                                                              015.04-TB OF VERTEBRA-CULT DX
    BEINKE,HCCBE            A0000000626    A9104500010   02/14/91  02/15/91  DIS  F    100     013.36-TB BRAIN ABSC-OTH TEST
                                                                                              013.40-TUBRCLMA SP CORD-UNSPEC
Total Number of Discharges for 013.36-TB BRAIN ABSC-OTH TEST:  2


End>
```

Procedure Index

QUERY DESCRIPTION

Report Name: Procedure Index

Query Name:QCE_PROCEDURE_INDEX

Selection Criteria: Beginning Discharge Date

                              Ending Discharge Date

                              Facility

Sort(s):Principal Procedure

Description:

This report contains a list, by principal procedure, of those patients who were discharged with that procedure. The patients are listed in alphabetical order under each procedure. The report includes the dates of admission and discharge, the sex of the patient, the attending physician number, medical service, length of stay, financial class, discharge disposition, and any secondary procedures. This report also contains detail information for each procedure (i.e., assistants, anesthesia code and tissue code).

Notes:

The query allows selection of the beginning and ending discharge dates to include in the report, and places these dates in the header information.

SAMPLE QUERY

```
  Query Name: QCE_PROCEDURE_INDEX              Routine
      Printed: 05/15/91 at 3:16 PM
  Description: INDEX OF PRINCIPAL AND SECONDARY PROCEDURES
    Last edit: 05/15/91 at 9:59 AM by DBA
Last compile: 05/15/91 at 10:13 AM

SQL Text
========
READ     :XBDISCHARGE DATE HEADING 'Enter Beginning Discharge Date',
         :XEDISCHARGE DATE HEADING 'Enter Ending Discharge Date',
         :XFAC CHAR(1) HEADING 'Enter Facility'
SET      RMARGIN = 132


SELECT   SEC_PROC_DESC HEADING 'SEC PROCEDURES' LEFT 25 COLUMN 10,
         SEC_SURG_CD HEADING 'SURG' LEFT 10 COLUMN 40,
         SEC_PROC_DATE HEADING 'DATE' LEFT 10 COLUMN 50,
         SEC_SURG_ASST_CD1 HEADING '1ST ASSIST' LEFT 10 COLUMN 60,
         SEC_SURG_ASST_CD2 HEADING '2ND ASSIST' LEFT 10 COLUMN 75,
         SEC_ANESTH_CD HEADING 'ANES' LEFT 10 COLUMN 90,
         SEC_TISSUE_CD HEADING 'TISS' LEFT 10 COLUMN 100


FROM     CE_ABST_PROC_DTL P,      AG_DSCHRG_DT_IDX A

WHERE    A.DSCHRG_DT BETWEEN :XBDISCHARGE AND :XEDISCHARGE AND
         A.FAC = :XFAC
         AND A.INTN=P.INTN AND A.AN=P.AN
         AND DEMOG_LINK@UNIT_NBR LIKE 'A%'


ORDER BY PROC_LINK@PR_PROC_CD, PAT_NAME, PAT_ACCT_NBR

BREAK AT   1
SET       :XPC = 0
WRITE PROC_LINK@PR_PROC_DESC HEADING 'PRIN PROCEDURE' ,

BREAK AT 3
WRITE PAT_NAME HEADING 'PATIENT NAME' LEFT 25 COLUMN 5,
         DEMOG_LINK@UNIT_NBR HEADING 'UNIT #' LEFT 12 COLUMN 30,
         PAT_ACCT_NBR HEADING 'ACCOUNT #' LEFT 12 COLUMN 45,
         MED_LINK@ADM_DT HEADING 'ADM DATE' LEFT 10 COLUMN 60,
         MED_LINK@DSCHRG_DT HEADING 'DIS DATE' LEFT 10 COLUMN 70,
         MED_LINK@DSCHRG_COND HEADING 'DISP' LEFT 3 COLUMN 80,
```

```
            DEMOG_LINK@SEX HEADING 'SEX' LEFT 3 COLUMN 85,
            MED_LINK@DSCHRG_DT-MED_LINK@ADM_DT HEADING 'LOS' LEFT 3 COLUMN 90,
            MED_LINK@FIN_CLASS HEADING 'FIN CL' LEFT 6 COLUMN 95,
            MED_LINK@SERVICE_DESC HEADING 'MED SERVICE' LEFT 15 COLUMN 110,
            MED_LINK@ATTEND_PHY HEADING 'ATTEND' LEFT 6 COLUMN 125,
            PROC_LINK@PR_SURG_CD HEADING 'PRIN SURG' LEFT 10 COLUMN 10 SKIP 1 ,
            PROC_LINK@PR_PROC_DATE HEADING 'PROC DATE' LEFT 10 COLUMN 22,
            PROC_LINK@PR_SURG_ASST_CD1 HEADING '1ST ASSIST' LEFT 10 COLUMN 35 ,
            PROC_LINK@PR_SURG_ASST_CD2 HEADING '2ND ASSIST' LEFT 10 COLUMN 50 ,
            PROC_LINK@PR_ANESTH_CD HEADING 'ANES' LEFT 10 COLUMN 65,
            PROC_LINK@PR_TISSUE_CD HEADING 'TISS' LEFT 10 COLUMN 80


BREAK AFTER     3
SET             :XPC = :XPC + 1
BREAK AFTER     1
WRITE ' '
WRITE   'Total Number of Discharges for ' | PROC_LINK@PR_PROC_DESC |
             ':  ' | :XPC
WRITE   ' '
WRITE   ' '
HEADER  WRITE 'PROCEDURE INDEX' CENTER 132
        WRITE 'For ' | :XBDISCHARGE | '-' | :XEDISCHARGE CENTER 132


End>
```

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Figure 8.20 Procedure Index

```
                                    PROCEDURE INDEX
                                 For 02/01/91-02/28/91

PRIN PROCEDURE
    PATIENT NAME            UNIT #         ACCOUNT #      ADM DATE  DIS DATE  DISP SEX  LOS  FIN CL        MED SERVICE    ATTEND
        PRIN SURG   PROC DATE   1ST ASSIST    2ND ASSIST      ANES                TISS
        SEC PROCEDURES                      SURG      DATE      1ST ASSIST     2ND ASSIST      ANES       TISS
------------------------------------------------------------------------------------------------------------------------------
01.01-CISTERNAL PUNCTURE
    ANDERSON,DAD            A0000000568    A9100700002    01/07/91  02/12/91  H    M   36   S             MEDICAL        5236
        1           01/10/91    32            12              O                6
                                           1         01/10/91  32            12             O          6
Total Number of Discharges for 01.01-CISTERNAL PUNCTURE:  1


04.6-PERIPH NERVE TRANSPOSIT
        1           02/07/91    10            45              O                0
        04.6-PERIPH NERVE TRANSPO    1       02/07/91  10            45             O          0

    BEINKE,HCCBA           A0000000609    A9103700004    02/06/91  02/07/91  DIS  M    1

        04.71-HYPOGLOSS-FACIAL AN    1       02/07/91  10            45             O          0

        04.72-ACCESSORY-FACIAL AN    1       02/07/91  10            45             O          0

        04.73-ACCESS-HYPOGLOSS AN    1       02/07/91  10            45             O          0

                                           1         02/07/91  10            45             O          0
Total Number of Discharges for 04.6-PERIPH NERVE TRANSPOSIT:  1


47.0-APPENDECTOMY
    AA,BB B                A0000000631    A9104900002    02/18/91  02/18/91  DIS  M    0   C             MEDICAL        5236
        2           02/18/91    4                             O
                                           2         02/18/91  4                          O
Total Number of Discharges for 47.0-APPENDECTOMY:  1


End>
```

Physician Index

QUERY DESCRIPTION

Report Name: Physician Index

Query Name:QCE_PHYSICIAN_INDEX

Selection Criteria: Beginning Discharge Date

                                 Ending Discharge Date

                                 Facility

Sort(s):Attending Physician

Description:

This report contains a list, by attending physician, of those patients whose abstracts indicate that physician. The patients are listed in alphabetical order under each physician. The report includes the dates of admission and discharge, discharge disposition, and the principal diagnosis.

Notes:

The query allows selection of the beginning and ending discharge dates to include in the report, and places these dates in the header information.

SAMPLE QUERY

```
   Query Name: QCE_PHYSICIAN_INDEX              Routine:
       Printed: 05/15/91 at 3:15 PM
  Description: INDEX OF ATTENDING PHYSICIAN'S PATIENTS
    Last edit: 05/14/91 at 1:00 PM by DBA
Last compile: 05/14/91 at 1:05 PM

SQL Text
========
READ    :XBEGDATE DATE PROMPT 'Enter Beginning Discharge Date'
READ    :XENDDATE DATE PROMPT 'Enter Ending Discharge Date'
READ    :XFAC CHAR(1) HEADING 'Enter Facility'
READ    :XDOCCODE CHAR(5) PROMPT 'Enter Attending Physician or ALL --'


SET     RMARGIN = 132


SELECT PAT_NAME HEADING 'PATIENT NAME' LEFT 20 COLUMN 5,
        PAT_ACCT_NBR HEADING 'ACCT NUMBER' LEFT 10 COLUMN 30,
        UNITNBR(FAC,INTN) HEADING 'UNIT NUMBER' LEFT 10 COLUMN 45 CHANGED,
        MED_LINK@ADM_DT HEADING 'ADM DATE' LEFT 10 COLUMN 60,
        DSCHRG_DT HEADING 'DIS DATE' LEFT 10 COLUMN 70,
        MED_LINK@DSCHRG_COND_DESC HEADING 'DISPOSITION' LEFT 20 COLUMN 80,
        ABST_DIAG_LINK@PR_DIAG_DESC HEADING 'PRIN DX' LEFT 20 COLUMN 102,
        MED_LINK@INPAT_OUTPAT_IND  HEADING 'PAT|IND' COLUMN 126 LEFT 4
FROM AG_DSCHRG_DT_IDX
WHERE   DSCHRG_DT BETWEEN :XBEGDATE AND :XENDDATE
AND     DSCHRG_DT = MED_LINK@DSCHRG_DT
AND     :XFAC = FAC
AND :XDOCCODE IN (MED_LINK@ATTEND_PHY, 'ALL')


ORDER BY MED_LINK@ATTEND_PHY


BREAK AT 1
WRITE ' '
WRITE ' '
WRITE   MED_LINK@ATTEND_PHY  HEADING 'ATTENDING|PHYSICIAN',
      MED_LINK@ATTEND_PHY_NM HEADING ' ' LEFT 33 COLUMN 10
WRITE ' '
BREAK AFTER 1
WRITE 'Total Number Patients this Physician '|MED_LINK@ATTEND_PHY_NM SKIP
2   LEFT 60,         COUNT(DISTINCT AN BY 1)
```

```
FINAL    WRITE    ' '
         WRITE    ' '
         WRITE 'Total Number of Patients '|COUNT(*,0)


HEADER   WRITE 'PHYSICIAN INDEX' CENTER 131

         WRITE 'For  ' | :XBEGDATE | '-' | :XENDDATE CENTER 132


End>
```

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Figure 8.21 Physician Index

```
                                    PHYSICIAN INDEX
                                 For  02/01/91-02/28/91

ATTENDING PHYSICIAN
     PATIENT NAME              ACCT NUMBER    UNIT NUMBER   ADM DATE  DIS DATE  DISPOSITION                  PRIN DX
-----------------------------------------------------------------------------------------------------------------------
100     CHERECK,BOB
        BEINKE,HCCBC           A910450000     A000000061    02/14/91  02/15/91  SYSTEM DISCHARGED            001.1-CHOLERA D/T VIB EL

        BEINKE,HCCBE           A910450001     A000000062    02/14/91  02/15/91  SYSTEM DISCHARGED            013.36-TB BRAIN ABSC-OTH

Total Number of Patients for CHERECK,BOB: 2


2       LEES,JACK R
        HEMPE,OTTO WOLFGANG    A903340000     A000000051    11/30/90  02/19/91  AGAINST MEDICAL ADVICE       006.0-AC AMEBIASIS W/O AB

Total Number of Patients for LEES,JACK R: 1


23      KEIEL,ROBERT T
        EPHUS,GOOZLE           A007774455     A000000070    02/19/91  02/20/91  SENT HOME WITH NOTE FOR H    789.0-ABDOMINAL PAIN

Total Number of Patients for KEIEL,ROBERT T: 1


32      ADAIR,FRANK C
        BARNETT,BABY 1 GIRL    A910570000     A000000064    02/26/91  02/27/91  SYSTEM DISCHARGED            741.01-*SPIN BIF W HYDRCE

        LANE,EMILY             A903300000     A000000052    11/26/90  02/27/91  HOME - SELF CARE             789.0-ABDOMINAL PAIN

        GIG,CK P               A910500000     A000000063    02/19/91  02/19/91  SYSTEM DISCHARGED            346.0-CLASSICAL MIGRAINE

Total Number of Patients for ADAIR,FRANK C: 3


TOTAL NUMBER OF PATIENTS:  7
End (24/142)>
```

Consultant Index

QUERY DESCRIPTION

> **Report Name:**Consultant Index
>
> **Query Name**:QCE_CONSULT_INDEX
>
> **Selection Criteria**:   Beginning Discharge Date
>
>   Ending Discharge Date
>
>   Facility
>
> **Sort(s)**:Consulting Physician
>
> **Description**:
>
> This report contains a list, by consulting physician, of those patients whose abstracts indicate that physician as a consultant. The patients are listed in alphabetical order under each physician. The report includes the dates of admission and discharge, the date of consultation, specialty associated with that physician, the attending physician number and the principal diagnosis.
>
> **Notes:**
>
> The query allows selection of the beginning and ending discharge dates to include in the report, and places these dates in the header information.

SAMPLE QUERY

```
  Query Name: QCE_CONSULT_INDEX                Routine:
       Printed: 05/15/91 at 3:13 PM
  Description: CONSULTING TOTALS
     Last edit: 05/14/91 at 10:59 AM by DBA
Last compile: 05/14/91 at 11:09 AM


SQL Text

========

READ     :XBEGDATE PROMPT 'Enter the Beginning Discharge Date',

READ     :XENDATE DATE PROMPT 'Enter the Ending Discharge Date'

READ     :XFAC CHARACTER(1) PROMPT 'Enter Facility'

READ     :XDOCCODE CHARACTER(6) PROMPT 'Enter Doctor Code or ALL'


SELECT  PHY_NAME HEADING 'PHYS|NAME' CHANGED,

        SPECIALTY HEADING 'PHYS SPECIALTY' CHANGED,

        SVC_DATE HEADING 'CON DATE' LEFT 10 COLUMN 5,

        DEMOG_LINK@PAT_NAME HEADING 'PATIENT NAME' LEFT 20 COLUMN 15,

        MED_LINK@PAT_ACCT_NBR HEADING 'ACCT NUMBER' LEFT 10

          COLUMN 40,

        MED_LINK@UNIT_NBR HEADING 'UNIT NUMBER' LEFT 10 COLUMN 55,

        MED_LINK@ADM_DT HEADING 'ADM DATE' LEFT 10 COLUMN 70,

        DSCHRG_DT HEADING 'DIS DATE' LEFT 10 COLUMN 90,

        MED_LINK@ATTEND_PHY HEADING 'ATTEND' LEFT 10 COLUMN 90,

        ABST_DIAG_LINK@PR_DIAG_DESC HEADING 'PRIN DX' LEFT 25

          COLUMN 100

        MED_LINK@INPAT_OUTPAT_IND HEADING 'PAT|IND' COLUMN 128 LEFT 3


FROM    AG_DSCHRG_DT_IDX AI, CE_ABST_CNSULT CC

WHERE   AI.AN = CC.AN

AND     AI.INTN = CC.INTN

AND     DSCHRG_DT BETWEEN :XBEGDATE AND :XENDDATE

AND     DSCHRG_DT = MED_LINK@DSCHRG_DT

AND     :XFAC = FAC

AND     :XDOCCODE IN (PHY_CD, 'ALL')


ORDER BY PHY_NAME


BREAK AFTER     PHY_NAME

WRITE           ' '

WRITE           'Total Number of Consults for  ' | PHY_NAME | ':  '
```

```
                        | COUNT(*  BY  PHY_NAME)
      WRITE             ' '

      FINAL        WRITE ' '
                   WRITE ' '
                   WRITE ' '
                   WRITE 'Total Number of Consults:  ' | COUNT(*)


      HEADER  WRITE 'CONSULTANT INDEX' CENTER 132
              WRITE 'For  ' | :XBEGDATE | '-' | :XENDDATE CENTER 132
      End>
```

Figure 8.22 Consultant Index

```
                                         CONSULTANT INDEX
                                       For  02/01/91-02/28/91

CONSULT NAME               PHYS SPECIALTY
     CON DATE  PATIENT NAME            ACCT NUMBER   UNIT NUMBER   ADM DATE  DIS DATE  ATTEND   PRIN DX
-----------------------------------------------------------------------------------------------------------
---
ALDEN,JOHN F
             LANE,EMILY               A903300000    A000000052    11/26/90  02/27/91  32       789.0-ABDOMINAL PAIN

Total Number of Consults for  ALDEN,JOHN F:  1


LEES,JACK R                CARDIOLOGY
     02/04/91  HORST,JOHN V           A910350000    A000000060    02/04/91  02/04/91  5236     789.0-ABDOMINAL PAIN

Total Number of Consults for  LEES,JACK R:  1


MCCREARY,MIRIAM K
     02/18/91  AA,BB B                A910490000    A000000063    02/18/91  02/18/91  5236     001.0-CHOLERA D/T VIB CHO

Total Number of Consults for  MCCREARY,MIRIAM K:  1




Total Number of Consults:  3
End (3/39)
```

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Release of Information Invoice Inquiry Report

QUERY DESCRIPTION

Report Name: ROI INVOICE INQUIRY

Query Name: QAG_ROI_INVOICE_INQUIRY

Selection Criteria: Facility, Invoice Number

Sort(s):

Description:

This query provides a method to inquire and display information for a specific invoice number. This query can be run as it is, but it was designed specifically to work with the Vista Reporting Query From a Menu function. It may be added to the ROI menu "armmain."

Notes:

SAMPLE QUERY

```
Query name: QAG_ROI_INVOICE_INQUIRY    Routine:
Description: INVOICE DETAIL
Last edit= 06/04/2003_ At 12:22 PM  By user HBO_DBA
Compiled= 06/04/2003_ At 12:22 PM
Run= 06/04/2003_ At 12:23 PM


SQL Text

========
--QUERY INQUIRY TO GET INVOICE DETAIL FOR A SPECIFIC INVOICE NUMBER
--CAN BE USED TO ASSIST IN ADJUSTMENT AND PAYMENT POSTING
--CAN BE USED WITH VISTA QUERY FROM A MENU FUNCTION
--ADD TO THE ROI MENU armmain
--VISTA ROI QUERIES ADDED WITH STI R4756


SET DISPLAY_HEADING = 'N'
SET DISPLAY_END = 'N'
SET DISPLAY_LINE = 'N'

READ :XFAC CHAR (1)    PROMPT "ENTER FACILITY CODE"
READ :XINVNBR INT(10)  PROMPT "ENTER INVOICE NUMBER"


SELECT NULL

FROM AR_ROI_REQ_INV_NBR_IDX

WHERE FAC = :XFAC
AND INV_NBR = :XINVNBR
DETAIL
 WRITE 'INVOICE NBR: ',INV_NBR LEFT COLUMN 15
 WRITE ''
 WRITE 'INVOICE DATE: ',REQ_BILL_INFO_LINK@INV_DT COLUMN 15
 WRITE ''
 WRITE 'REQUESTER ID:',REQ_DTL_LINK@REQSTR_CD│'  '│REQ_DTL_LINK@REQSTR_DESC
 WRITE ''
 WRITE 'PATIENT NAME: ',REQ_DTL_LINK@PAT_NAME COLUMN 15
 WRITE ''
 WRITE 'REFERENCE NBR: ',REQ_DTL_LINK@REF_NBR  COLUMN 15
 WRITE ''
 WRITE 'TOTAL CHGS: ',REQ_BILL_INFO_LINK@TOT_CHG LEFT COLUMN 15
 WRITE ''
 WRITE 'TOTAL PYMNTS: ',REQ_BILL_INFO_LINK@TOT_PYMNTS LEFT COLUMN 15
 WRITE ''
 WRITE 'BALANCE DUE: ',REQ_BILL_INFO_LINK@BAL_DUE LEFT COLUMN 15

HEADER  'ROI INVOICE INQUIRY PROCESSOR' CENTER 50 ,TODAY│' '│NOW
```

Figure 8.23 ROI Invoice Inquiry Processor

```
ROI INVOICE INQUIRY PROCESSOR              06/10/03 03:33 PM


INVOICE NBR:   1

INVOICE DATE:  04/25/03

REQUESTER ID:  BARN   DAVID BARNETT, ATTORNEY

PATIENT NAME:  CHOVEY,ANN

REFERENCE NBR: Ref 3829347392

TOTAL CHGS:    316.19

TOTAL PYMNTS:

BALANCE DUE:   316.19
```

Release of Information Tax Report

QUERY DESCRIPTION

Report Name: ROI TAX INQUIRY

Query Name: QAG_ROI_TAX_REPORT

Selection Criteria: Facility Code and Invoice dates

Sort(s): Facility, Requester State

Description:

This query provides a record or report of tax amounts by state related to ROI charges. The need for this report may depend on the specific state, but it can be copied and modified for another reporting need.

Notes:

SAMPLE QUERY

```
Query name: QAG_ROI_TAX_REPORT    Routine: BRS2211

Description: QUERY TO REPORT ROI TAX FOR GL

Last edit= 06/04/2003_ At 12:22 PM  By user HBO_DBA

Compiled= 06/04/2003_ At 12:22 PM

Run= 06/04/2003_ At 12:23 PM


SQL Text

========

--QUERY TO REPORT TAX AMOUNTS BY STATE FOR RELEASE OF INFORMATION REQUESTS
--INCLUDES INVOICES WITH TAX AMOUNTS FOR SPECIFIC TIME PERIOD REQUESTED
--THE REPORT INCLUDES DETAIL AS WELL AS SUBTOTALS BY STATE
--ADDED WITH STI R4756


 SET DISPLAY_END = N
 READ :XFAC CHAR(1) PROMPT "ENTER FACILITY CODE"
 READ :XBEG DATE    PROMPT "ENTER BEGIN DATE"
 READ :XEND DATE    PROMPT "ENTER END DATE"


 SELECT NULL


 FROM AR_ROI_REQ_INV_NBR_IDX


 WHERE FAC = :XFAC
   AND REQ_BILL_INFO_LINK@TAX IS NOT NULL
   AND REQ_BILL_INFO_LINK@INV_DT IS NOT NULL
   AND REQ_BILL_INFO_LINK@INV_DT BETWEEN :XBEG AND :XEND


 ORDER BY FAC,REQ_DTL_LINK@REQSTR_ST


 HEADER WRITE 'RELEASE OF INFORMATION TAX REPORT' CENTER 80
        WRITE 'FOR' CENTER 80
        WRITE :XBEG|' THRU '|:XEND CENTER 80
 DETAIL
        WRITE FAC                   HEADING 'FACILITY'
         ,REQ_DTL_LINK@REQSTR_ST   HEADING 'STATE'
         ,INV_NBR                  HEADING 'INVOICE|NBR'
         ,REQ_BILL_INFO_LINK@INV_DT HEADING 'INVOICE|DATE'
         ,REQ_BILL_INFO_LINK@TOT_CHG HEADING 'TOTAL|CHARGES'
         ,REQ_BILL_INFO_LINK@TAX      HEADING 'TAX|AMOUNT'

 BREAK AFTER REQ_DTL_LINK@REQSTR_ST
   WRITE ''
   WRITE REQ_DTL_LINK@REQSTR_ST|'
   '|SUM(REQ_BILL_INFO_LINK@TAX,REQ_DTL_LINK@REQSTR_ST)COLUMN 61
   WRITE ''

 BREAK AFTER FAC
   WRITE ''
   WRITE 'FAC TAX TOTAL: '| SUM(REQ_BILL_INFO_LINK@TAX,FAC)
```

Figure 8.24 Release of Information Tax Report

```
RELEASE OF INFORMATION TAX REPORT
                               FOR
                     01/01/2003 THRU 06/10/2003

                 INVOICE  INVOICE              TOTAL              TAX
FAC   STATE          NBR  DATE               CHARGES           AMOUNT
-----------------------------------------------------------------------------

A     GA             247  05/15/2003         1724.00          1293.00
A     GA             249  05/15/2003         1260.64          1103.06
A     GA             293  05/14/2003           31.10            11.10
A     GA             294  05/14/2003         1308.64          1145.06
A     GA             297  05/14/2003         1308.64          1145.06
A     GA             311  05/20/2003           31.10            11.10
A     GA              53  04/08/2003          183.06            11.98


                                                      GA    4720.36

A     IA IOWA        225  05/29/2003          322.30            29.30
A     IA IOWA         35  03/07/2003          218.36             6.36


                                                      IA IOWA    35.66

A     NJ             199  04/28/2003           67.98             1.98


                                                      NJ    1.98

A     OH OHIO        292  05/14/2003           31.10            11.10
A     OH OHIO        296  05/14/2003           31.10            11.10


                                                      OH OHIO    22.20

A                    256  05/15/2003          261.80            23.80


                                                            23.80


FAC TAX TOTAL: 4804.00
```

Release of Information General Ledger Posting

QUERY DESCRIPTION

Report Name: ROI GL POSTING

Query Name: QAG_ROI_GL_POSTING

Selection Criteria: Facility Code and Invoice dates

Sort(s): Facility, Invoice Number

Description:

This is a summary report that can be used to report total charges, payments and adjustments for a user requested date range. It can be used as a source document for posting to the General Ledger. There are two associated subqueries.

Notes:

SAMPLE QUERY

```
Query name: QAG_ROI_GL_POSTING    Routine:

Description: ROI FINANCIAL ACTIVITY FOR GL POSTING_

Last edit= 06/04/2003_ At 12:22 PM  By user HBO_DBA

Compiled= 06/04/2003_ At 12:22 PM

Run= 06/04/2003_ At 12:23 PM

SQL Text

========
--QUERY TO PROVIDE CHARGE, PAYMENT AND ADJUSTMENT TOTALS FOR GL POSTING
--ENTER APPROPRIATE TIME PERIOD NEEDED FOR POSTING
--BASED ON INVOICE DATES
--THIS WAS ADDED WITH STI R4756


 READ :XFAC CHAR (1) PROMPT "ENTER FACILITY CODE"
 READ :XBEG DATE PROMPT "ENTER BEGIN DATE"
 READ :XEND DATE PROMPT "ENTER END DATE"

 DECLARE VARIABLE :XADJ NUMERIC (15,2)
 DECLARE VARIABLE :XPYMT NUMERIC (15,2)
 DECLARE VARIABLE :XCHG NUMERIC (15,2)

 SET DISPLAY_END = N

SELECT NULL

FROM AR_ROI_REQ_INV_NBR_IDX

WHERE FAC = :XFAC
 AND REQ_BILL_INFO_LINK@INV_DT IS NOT NULL

ORDER BY FAC,INV_NBR

INITIAL SET :XADJ = 0
 SET :XPYMT = 0
 SET :XCHG = 0

BREAK AT FAC

RUN QAG_ROI_GL_POST_SUB_PYMTS

RUN QAG_ROI_GL_POST_SUB_ADJ

BREAK AT INV_NBR
 IF REQ_BILL_INFO_LINK@INV_DT BETWEEN :XBEG AND :XEND
 SET :XCHG = :XCHG + REQ_BILL_INFO_LINK@TOT_CHG
ENDIF

BREAK AFTER FAC
 WRITE :XCHG  HEADING ' TOTAL |CHARGES'
       ,:XADJ HEADING '  TOTAL   |  BALANCE  |ADJUSTMENTS'
       ,:XPYMT HEADING 'TOTAL  |PAYMENTS'
HEADER WRITE  'GL POSTING TOTALS' CENTER 80
 WRITE  'FOR '|:XBEG |' THRU '|:XEND CENTER 80
```

SUBQUERIES FOR QAG_ROI_GL_POSTING

```
QAG_ROI_GL_POST_SUB_ADJ

Query name: QAG_ROI_GL_POST_SUB_ADJ     Routine:

Description: ROI FINANCIAL ACTIVITY FOR GL POSTING_

Last edit= 06/04/2003_ At 12:22 PM  By user HBO_DBA

Compiled= 06/04/2003_ At 12:22 PM

Run= 06/04/2003_ At 12:23 PM

SQL Text

========

--SUB QUERY TO PROVIDE ADJUSTMENT TOTALS FOR GL POSTING
--BASED ON :XBEG AND :XEND DATES ENTERED IN MAIN QUERY
--CALLED FROM MAIN QUERY QAG_ROI_GL_POSTING


SET SUBQUERY = Y
DECLARE VARIABLE :XFAC CHAR (1)
DECLARE VARIABLE :XBEG DATE
DECLARE VARIABLE :XEND DATE
DECLARE VARIABLE :XADJ NUMERIC (15,2)

SELECT NULL

FROM AR_ROI_REQ_ADJ_DT_IDX A
        ,AR_ROI_REQ_BILL_INFO B
WHERE A.FAC = :XFAC
   AND A.ADJ_DT BETWEEN :XBEG AND :XEND
   AND A.ADJ_DT = B.BAL_ADJ_DT
   AND A.FAC = B.FAC
AND A.REQ_NBR = B.REQ_NBR
 DETAIL
 SET :XADJ = :XADJ + BAL_ADJ_AMT




QAG_ROI_GL_POST_SUB_PYMTS

Query name: QAG_ROI_GL_POST_SUB_PYMNTS    Routine:

Description: ROI FINANCIAL ACTIVITY FOR GL POSTING_

Last edit= 06/04/2003_ At 12:22 PM  By user HBO_DBA

Compiled= 06/04/2003_ At 12:22 PM

Run= 06/04/2003_ At 12:23 PM

SQL Text

========

--SUB QUERY TO PROVIDE CHARGE, PAYMENT AND ADJUSTMENT TOTALS FOR GL
--BASED ON :XBEG AND :XEND DATES
--CALLED FROM MAIN QUERY QAG_ROI_GL_POSTING
```

```
SET SUBQUERY = Y

DECLARE VARIABLE :XFAC CHAR(1)
DECLARE VARIABLE :XBEG DATE
DECLARE VARIABLE :XEND DATE
DECLARE VARIABLE :XPYMT NUMERIC (15,2)

SELECT NULL

FROM AR_ROI_REQ_PYMNT_DT_IDX A
     ,AR_ROI_REQ_PYMNTS B

WHERE A.FAC = :XFAC
 AND A.PYMNT_POST_DT BETWEEN :XBEG AND :XEND
 AND A.FAC = B.FAC
 AND A.REQ_NBR = B.REQ_NBR
 AND A.SEQ_NBR = B.SEQ_NBR

DETAIL
 SET :XPYMT = :XPYMT + PYMNT_AMT
```

Figure 8.25 GL Posting Totals

```
                       GL POSTING TOTALS
                   FOR 01/01/03 THRU 06/10/03

                        TOTAL
       TOTAL           BALANCE             TOTAL
      CHARGES        ADJUSTMENTS          PAYMENTS
-------------------------------------------------------------------------------

       509.79            0.00             -29.41
```

Release of Information Average Time By Employee

QUERY DESCRIPTION

Report Name:ROI AVERAGE TIME BY EMPLOYEE

Query Name:QAG_ROI_AVG_TIME_BY_EMP

Selection Criteria: None

Sort(s): Employee ID

Description:

This report can be used to report and track average turnaround times for ROI requests by employee.

Notes:

SAMPLE QUERY

```
Query name: QAG_ROI_AVG_TIME_BY_EMP    Routine:
Description: TURNAROUND TIME ON EMP REQUEST
Last edit= 06/04/2003_ At 12:22 PM  By user HBO_DBA
Compiled= 06/04/2003_ At 12:22 PM
Run= 06/04/2003_ At 12:23 PM


SQL Text
========
--QUERY TO REPORT AVERAGE TURNAROUND TIMES BY EMPLOYEES
--WHERE THE REQUESTER AND PERSON COMPLETING REQUEST IS THE SAME
--ADDED WITH STI R4756


SET DISPLAY_END='N'

SELECT  REQ_ENTRD_APPL|REQ_ENTRD_ID AS REQEMP, COMP_BY_APPL|COMP_BY_ID AS
 COMPEMP


FROM AR_ROI_REQ_DTL

WHERE REQEMP=COMPEMP

ORDER BY REQ_ENTRD_APPL|REQ_ENTRD_ID

BREAK AFTER 1

WRITE REQ_ENTRD_NM  HEADING 'EMP NAME'
 ,(SUM(COMP_DT_TM-REQ_ENTRD_DT_TM BY 1)/COUNT(* BY 1))\86400|'DY'|' '|
 ((SUM(COMP_DT_TM-REQ_ENTRD_DT_TM BY 1) /COUNT(* BY 1))#86400)\3600|'HR'|'
 '|  ' '|
 (((SUM(COMP_DT_TM-REQ_ENTRD_DT_TM BY 1
 )/COUNT(* BY 1))#86400)#3600)\60|'MIN'
 HEADING 'AVG TAT BETWEEN REQ/COMP'

DETAIL
```

Figure 8.26 ROI Average Time By Employee

```
                    QAG_ROI_AVG_TIME_BY_EMP
                    Printed on 06/11/03 at 8:06 AM

EMP NAME                    AVG TAT BETWEEN REQ/COMP
----------------------------------------------------------------
Greenwood,Sal               0DY 10HR 18MIN
```

Chapter 9 - STAR PHARMACY

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Illustrations

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INTRODUCTION

This is the STAR Pharmacy section of the *STAR Vista Reporting/SQL Reference Guide*. In the following pages, you can see the new and modified tables that STAR Vista Reporting uses in the STAR Pharmacy product.

This section also briefly discusses functions relative to STAR Pharmacy. Refer to the *KB_SQL Database Administrator's Guide* for details of creating and modifying tables and functions.

A few sample queries with their descriptions and results are included. Refer to the *KB_SQL Reference Guide* for information on building, modifying, and running queries.

VIEWS

A *view* is a *virtual table* whose information is defined by a user. Views provide major benefits including:

•   Security

Users can be given access to the data through views, restricting access to sensitive information.

•   Query Simplicity

A view can be created from several tables and be presented to the user as only one table (a *virtual table*).

•   User Simplicity

Views can be tailored to a user's scope or access, defining his/her view of the data.

The EZQ Editor has a limitation of using one table at a time; therefore, views can offer a better variety of information. If your department is using the EQZ Editor more frequently than the SQL Editor, you may find it helpful to create more views. When the EZQ Editor asks for a table name to be entered, you can enter the name of a view for diversified reporting needs.

The McKesson database naming conventions for VIEWS are as follows:

Naming Conventions for Queries Creating VIEWS:

```
Q        _____       V_Description
|          |          |
|          |          |_____VIEW
|          |
|          |_____Product Letter:  G=STAR FINANCIALS Accounts Payable
|              H=STAR FINANCIALS Payroll/Personnel
|              I=STAR FINANCIALS Materials Management
|              J=STAR FINANCIALS General Ledger
|              F=STAR FINANCIALS Patient Accounting
|              A=STAR Allstar
|              C=STAR Patient Care
|              L=STAR Laboratory
|              P=STAR Pharmacy
|              X=STAR Radiology
|_____Query
```

EXAMPLE:QPV_FORMULARY_INFO

Naming Conventions for VIEWS:

V_View Name

EXAMPLE:V_FORMULARY_INFO

The following pages show sample VIEW descriptions and sample queries to create the VIEWS described. These views are examples of how to create a view. If changes are needed to a view, the SQL user needs to copy the query to another name using his or her hospital's naming convention. The VIEW name itself could be changed as well. This prevents the query and view from being overwritten with an application upgrade. For more information on the creation of VIEWS, please refer to the *KB_SQL Database Administrator's Guide* and the *KB_SQL Reference/User's Guide*.

V_RX_SATELLITE_USG

SAMPLE VIEW DESCRIPTION

Query Name: QPV_SATELLITE_USG

View Name: V_RX_SATELLITE_USG

Description:

This query creates a view of all of the formulary usage at facility 'A' for satellite locations only. The columns available are FORMULARY_CODE, FAC, and LOCATION_CODE.

Notes:

None.

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SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QPV_SATELLITE_USG                    Routine:
      Printed: 08/03/91 at 11:16 AM
 Description: CREATE VIEW OF SATELLITE LOCATION FORMULARY USAGE


SQL Text

========

--This query creates a view of all of the formulary usage at facility --'A'
for satellite locations only.


CREATE  VIEW V_RX_SATELLITE_USG (FORMULARY_CODE, FAC, LOCATION_CODE) AS
SELECT  FORMULARY_CODE,
        FAC,
        LOCATION_CODE
FROM    PG_FORMULARY U,
        PG_STOCK_LOCATIONS S
WHERE   FAC='A'
        AND S.LOCATION_TYPE_DESC='SAT'
        AND U.LOCATION_CODE = S.LOCATION_CD
End>
```

V_INACT_SOLUTION

SAMPLE VIEW DESCRIPTION

Query Name:QPV_INACT_SOLUTION

View Name:V_INACT_SOLUTION

Description:

This query creates a view of all solution orders that have been historized. All columns that are available through the PG_INACTIVE_ORDERS table are also available through the V_INACT_SOLUTION view.

Notes:

None.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QPV_INACT_SOLUTION                 Routine:
      Printed: 08/03/91 at 11:16 AM
 Description: CREATE VIEW OF HISTORIZED SOLUTION ORDERS

SQL Text
========
-- This query creates a view of all solution orders which have been
-- historized.


CREATE   VIEW V_INACT_SOLUTION AS


SELECT * FROM PG_INACTIVE_ORDERS
WHERE ORDER_TYPE='S'
End>
```

V_FORMULARY_FAC

SAMPLE VIEW DESCRIPTION

Query Name:QPV_FORMULARY_FAC

View Name:V_FORMULARY_FAC

Description:

This query creates a view of the formulary that is specific to a single facility (in this case, facility 'A'). All columns that are defined in the PG_FORMULARY table are available in the V_FORMULARY_FAC view.

Notes:

The PG_FORMULARY table contains all formulary items for all facilities, but generally users only want to query against the formulary items for a single facility. This view creates such a virtual table through the use of a WHERE clause; a READ statement for the facility code could also be used.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QPV_FORMULARY_FAC                    Routine:
        Printed: 08/03/91 at 11:17 AM
 Description: CREATE VIEW OF FORMULARY BY SINGLE FACILITY


SQL Text
========
-- This query creates a view of the formulary that is specific to a
-- single facility (in this case, facility 'A').


CREATE VIEW V_FORMULARY_FAC AS


SELECT * FROM PG_FORMULARY
WHERE FAC='A'
End>
```

V_RX_EXTEMPO_PREDEF

SAMPLE VIEW DESCRIPTION

Query Name:QPV_EXTEMPO_PREDEF

View Name:V_RX_EXTEMPO_PREDEF

Description:

This query creates a view of all predefined order items that are defined as extemporaneous. The columns in the view are FAC, PREDEFINED_ORD_CD, and SEQUENCE_NBR.

Notes:

Predefined orders are specific to a facility. It may be desired to specify a single facility through either a READ statement or a WHERE clause.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QPV_EXTEMPO_PREDEF                    Routine:
       Printed: 08/03/91 at 11:18 AM
 Description: CREATE VIEW OF EXTEMPO PREDEFINED ORDERS


SQL Text
========
-- This query creates a view of all predefined order items which are
-- defined as extemporaneous.


CREATE VIEW V_RX_EXTEMPO_PRED (FAC,PREDEFINED_ORD_CD,SEQUENCE_NBR) AS


SELECT FAC,PREDEFINED_ORD_CD,SEQUENCE_NBR FROM PG_PREDEFINED_ORD
WHERE   EXTEMPO_TYPE IS NOT NULL
End>
```

V_3RD_PTY_ACCTS

SAMPLE VIEW DESCRIPTION

Query Name: QPV_3RD_PTY_ACCTS

View Name: V_3RD_PTY_ACCTS

Description:

This query creates a view of all active accounts that are covered by a third party for Ambulatory Care. The columns are PAT_ACCT_NBR and PAT_NAME.

Notes:

None.

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SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QPV_3RD_PTY_ACCTS                     Routine:
       Printed: 08/03/91 at 11:18 AM
  Description: CREATE VIEW OF ALL ACTIVE ACCTS COVERED BY A THIRD PTY


SQL Text
========
-- This query creates a view of all active accounts which are covered
-- by a third party for Ambulatory Care.


CREATE VIEW V_3RD_PTY_ACCTS (PAT_ACCT_NBR, PAT_NAME) AS


SELECT PAT_ACCT_NBR, PAT_NAME
FROM PA_PAT_DEMOGRAPHIC
WHERE THIRD_PARTY_CODE IS NOT NULL


End>
```

V_FORMULARY

SAMPLE VIEW DESCRIPTION

Query Name:QPV_FORMULARY_VIEW

View Name:V_FORMULARY

Description:

This query creates a view containing selected columns from PG_FORMULARY.

This view can be used for creating Administrative reports on items in the Formulary.

Notes:

The current VIEW has limited columns from PG_FORMULARY.
QPV_FORMULARY_FAC creates a view of all columns in PG_FORMULARY.

SAMPLE QUERY TO CREATE VIEW

```
  Query Name: QPV_FORMULARY_VIEW          Routine:
      Printed: 08/03/91 at 11:13 AM
 Description: View of select columns in PG_FORMULARY
    Last edit: 07/09/91 at 12:39 PM by DBA
Last compile: 07/05/91 at 3:54 PM
SQL Text
-- This query creates a VIEW of some of the data in the Formulary
-- QPV_FORMULARY_FAC gives a View with access to all the columns in
-- PG_FORMULARY for a specific facility.
-- If you want access to all of this data but not limited by
-- facility, copy that query, change the VIEW name and comment out the
-- WHERE clause


CREATE VIEW V_FORMULARY
(FAC
 ,FORMULARY_CD
 ,GENERIC_NAME
 ,ACTIVE_IND
 ,FIM_CD
 ,CURRENT_BRAND_NAME
 ,STRENGTH
 ,DEA_CLASS
 ,DRUG_CLASS
 ,DOSAGE_FORM
 ,NON_FORM_IND)


AS


SELECT   FAC
,FORMULARY_CODE
,GENERIC_NAME
,ACTIVE_IND
,BILL_CODE_IP
,CURRENT_BRAND_NAME
,STRENGTH
,DEA_CLASS
,DRUG_CLASS
,DOSAGE_FORM
,NON_FORMULARY_IND
FROM    PG_FORMULARY
```

V_RX_OP_CNTRLD_SUB_FILL

SAMPLE VIEW DESCRIPTION

Query Name:QPV_RX_OP_CNTRLD_SUB_FILL_VIEW

View Name:V_RX_OP_CNTRLD_SUB_FILL

Description:

This query creates a view containing selected columns from PA_PRESC_LOG.

This view can be used for creating Administrative reports on weekly controlled substance prescriptions filled.

Notes:

The current VIEW is limited to last week's data. This can be changed to include a longer time frame.

SAMPLE QUERY TO CREATE VIEW

```
    Query Name: QPV_RX_OP_CNTRLLD_SUB_FILL_VIEW          Routine:
        Printed: 08/03/91 at 11:13 AM
   Description: View of controlled substance prescription filled
     Last edit: 07/09/91 at 12:39 PM by DBA
Last compile: 07/05/91 at 3:54 PM

SQL Text
========


-- This query creates a VIEW of weekly Controlled Substance
-- Prescriptions fills
CREATE VIEW V_RX_OP_CNTRLD_SUB_FILL
(PRESC_NBR
 ,PAT_NAME
 ,DATE_WRITTEN
 ,ORD_PHYS_NM
 ,RX_INITS
 ,LABEL_NM
 ,FILL_QTY
 ,ORD_PHY_DEA
 ,FILL_NBR)


AS


SELECT    PA_PRESC_FILL_LINK@PRESC_NBR
 ,PA_PRESC_FILL_LINK@PAT_NAME
 ,PA_PRESC_LINK@DATE_WRITTEN
 ,PA_PRESC_LINK@ORDERING_PHYS_NAME
 ,PA_PRESC_FILL_LINK@INITIALS
 ,PA_PRESC_FILL_LINK@LABEL_NAME
 ,PA_PRESC_FILL_LINK@FILL_QTY
 ,PA_PRESC_LINK@ORDERING_PHYS_DEA
 ,PA_PRESC_FILL_LINK@FILL_NBR


FROM      PA_PRESC_LOG


WHERE     TRANS_TYPE IN ('PPM','PRM')
   AND    DATE(DATE_TIME) BETWEEN (TODAY-7) AND (TODAY-1)
   AND    PA_PRESC_LINK@DEA_CLASS IN (2,3,4,5)
   AND    FILL_NBR <> 0
```

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SAMPLE QUERIES, DESCRIPTIONS, RESULTS

Non-Formulary Items Ordered by Physician

QUERY DESCRIPTION

Report Name: Non-Formulary Items Ordered by Physician

Query Name:QPG_NONFORM_ITEMS_BY_PHYS

Selection Criteria: None

Sort(s): Ordering Physician Name

Description:

This report lists all active patient orders that contain non-formulary drug items. The report sorts the information by ordering physician. The patient, order number, brand name of the non-formulary item, and the non-formulary reason are printed.

This query demonstrates the use of Event Blocks. A DETAIL Statement is used to override the SELECT Statement and is another way of defining and formatting your report. The WHERE Statement qualifies the information on the report by including only those items with no formulary code or those items that have the 'On Formulary?' field in Formulary Maintenance set to No.

SAMPLE QUERY

```
   Query Name: QPG_NONFORM_ITEMS_BY_PHYS        Routine:
       Printed: 04/26/91 at 10:56 AM
  Description: Orders with Non-formulary items sorted by Physician
     Last edit: 04/11/91 at 3:13 PM by DBA
Last compile: 04/11/91 at 3:18 PM


SQL Text

--   This report lists all active orders that contain non-formulary
--   drug items.  This report is sorted by the ordering physician.


SELECT          NULL


FROM            PG_ACTIVE_ORDERS


WHERE           FORMULARY_CODE IS NULL
                 OR NON_FORM_ITEM_IND='YES'


ORDER BY        ORDERING_PHYS_NAME


DETAIL    WRITE ORDERING_PHYS_NAME HEADING 'Ord Phys Name' CHANGED,
                PAT_NAME HEADING 'Patient' LEFT 20 COLUMN 5,
                ORDER_NUMBER HEADING 'Order' LEFT 3 COLUMN 30,
                BRAND_NAME│' '│STRENGTH HEADING 'Brand Name' LEFT 19
                    COLUMN  36,
                NON_FORM_RSN_DESC HEADING 'NF Reason'  LEFT 20 COLUMN 58


BREAK AFTER     ORDERING_PHYS_NAME WRITE '  '


HEADER    WRITE 'Non-Formulary Items Ordered by Physicians' CENTER 80
          WRITE 'Printed On ' │TODAY│' at '│NOW  CENTER 80


End>
```

Figure 9.1 Non-Formulary Items Ordered by Physician

```
                    Non-Formulary Items Ordered by Physicians
                       Printed On 04/26/91 at 11:07 AM

Ord Phys Name
    Patient                    Order Brand Name           NF Reason
--------------------------------------------------------------------------------
ADELL,FRANK C
    GREEN,RALPH                1      PROZAC 20 MG         RECOMMEND OF CONSULT
    FOX,CINDY                  3      GLUCOSTIX 100        NO ACCEPTABLE ALTERN

ADAMS,MICHAEL
    MEYERS,LINDA               4      CLEOCIN T 1 %        PREV FAVORABLE EXPER

BLACK,JOHN F
    LITTLE,DAN                 1      HIBICLENS CLEANSER   NO REASON GIVEN

CARNES,RONALD
    SMOKY,MARK                 1      CEFOBID 1GM          NO ACCEPTABLE ALTERN

LEES,LONNIE
    SPICE,EDWARD G             1      PHENAPHEN 325 MG     CONT OF HOME THERAPY
    SPICE,EDWARD G             2      CEFOBID 1GM          NO ACCEPTABLE ALTERN
    BOULDER,CLAY              2      PEPCID               CONT OF HOME THERAPY
    BOND,ANDREA               2      GANTRISIN            CONT OF HOME THERAPY

TOWNS,RICHARD K
    THOMAS,ROBERT             1      DR. ROGERS COAL TAR  NO ACCEPTABLE ALTERN

End (12/113)>
```

Ambulatory Care Third Party Prescription Fills

QUERY DESCRIPTION

Report Name: Ambulatory Care Third Party Prescription Fills

Query Name:QPG_AMB_CARDHOLDER_INFO

Selection Criteria: Third Party Code

Third Party Number (Card Number)

Sort(s): Cardholder

Patient Name

Account Number

Description:

This report lists the prescriptions filled on a specific third party card. The cardholder's name, patient, patient's account number, the prescription number, the fill number if it is a refill, the quantity filled, the date filled, and the generic name of the drug are included on the report. The report also prints a total of the prescriptions filled against the card.

The query demonstrates the use of column modifiers. CHANGED suppresses the print of the same value. PROMPT allows you to print free text as a column header and overrides the column name. LEFT, RIGHT, and CENTER justify the text under the column header. A number is added after these commands to truncate the header and data.

The FINAL Statement is used to total the number of prescriptions by using COUNT.

SAMPLE QUERY

```
   Query Name: QPG_AMB_CARDHOLDER_INFO          Routine:
        Printed: 04/26/91 at 10:57 AM
   Description: Ambulatory Care Cardholder Name and Information
     Last edit: 04/08/91 at 4:25 PM by DBA
Last compile: 04/08/91 at 4:34 PM
SQL Text
--  This report lists the third party cardholder's name and number
--  and then lists all prescriptions filled under this card.


READ       :XTPCD CHARACTER(5) PROMPT 'Enter Third Party Code',
           :XTPCN CHARACTER(30) PROMPT 'Enter Third Party Number'


SELECT    PA_DEMOG_LINK@CARDHOLDER_NAME HEADING 'Cardholder'   CHANGED
COLUMN 1 LEFT 20 SKIP 1,

          PAT_NAME HEADING 'Patient'  CHANGED COLUMN 3 LEFT 20,

       PAT_ACCT_NBR HEADING 'Account#' DEFAULT 'No Acct #'
COLUMN 5 LEFT  12,

          PRESC_NBR HEADING 'Rx' COLUMN 20 LEFT 6,

          FILL_NBR HEADING 'Fill' COLUMN 30 LEFT 3,

          FILL_QTY HEADING 'Qty' COLUMN 37 LEFT 4,

          FILL_DATE HEADING 'Date' COLUMN 43 LEFT 9,

          PA_PRESC_LINK@GENERIC_NAME HEADING 'Generic Name'
           COLUMN 54 LEFT 25

          TOTAL_PRICE HEADING 'Price' COLUMN 7

          CASH_AMOUNT HEADING 'Co-Pay Amt'
FROM       PA_PRESC_FILLS


ORDER BY   PAT_NAME


WHERE      PA_DEMOG_LINK@THIRD_PARTY_NBR=:XTPCN
           AND THIRD_PARTY=:XTPCD
BREAK AFTER 1 SKIP 1


HEADER  WRITE 'Third Party Prescription Cardholder Information'
        CENTER 80
        NEWLINE 2
        WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80
        WRITE 'For Third Party ' |:XTPCD|' No. '|:XTPCN  CENTER 80
FINAL   NEWLINE 2
        WRITE 'Total Number of Prescriptions: '|COUNT(*) CENTER 80
End>
```

Figure 9.2 Ambulatory Care Third Party Prescription Fills

```
              Third Party Prescription Cardholder Information

                     Printed On 04/26/91 at 11:08 AM
                        For Third Party  No. 45389

  Cardholder
    Patient
      Account#       Rx     Fill   Qty     Date      Generic Name
          Price   Co-pay Amt
-------------------------------------------------------------------------
   ROGERS,JOHN ADAM
   No Acct #       10058    0      30    04/09/91   AMOXICILLIN/CLAVULANIC AC
         5.25        5.25
   No Acct #       10059    0      15    04/09/91   CARBINOXAMINE/PSEUDOEPHED
      144.75      144.75

   ROGERS,GLENN MICHAEL
   A9031600012     10054    0      30    04/09/91   AMOXICILLIN
        18.00       18.00
   A9031600012     10055    0      18    04/09/91   CETYLPYRIDINIUM CHLORIDE

   ROGERS,MARY ANN
   No Acct #       10040    0     150    03/27/91   AMOXICILLIN
        18.00       18.00
   No Acct #       10053    1      15    04/09/91   ACETAMINOPHEN
         5.00        5.00

                  Total Number of Prescriptions:  6
End (16/43)>
```

Drug Items in Each Solution Bottle for an Order

QUERY DESCRIPTION

Report Name:Drug Items in Each Solution Bottle for an Order

Query Name:QPG_DRUG_ITEMS_IN_BOTTLE

Selection Criteria: Patient Account Number

Order Number

Sort(s): Bottle Number

Description:

This report contains a list of the drug items in each solution bottle for a specified order. The report includes the bottle number, the brand names, the bottle schedule for each item, the dosage and the administer per dose amount in each bottle.

The query demonstrates the use of the READ Statement that allows you flexibility in choosing different patients and order numbers. The WHERE Statement qualifies the information by linking the READ Statement variables with columns. In the SELECT Statement, foreign keys have been used to link columns in the PG_ACTIVE_ORDERS table. The BREAK AFTER Statement contains the administration time for the bottle.

SAMPLE QUERY

```
  Query Name: QPG_DRUG_ITEMS_IN_BOTTLE          Routine:
      Printed: 04/26/91 at 10:59 AM
 Description: Drug Items in Each Solution Bottle For an Order
    Last edit: 04/09/91 at 3:23 PM by DBA
Last compile: 04/09/91 at 3:30 PM
```

SQL Text

```
-- This report lists the items in each bottle of a solution order for a
-- specific order.

READ     :XPATN CHARACTER(18) PROMPT 'Enter Patient Account No'
READ     :XORDN INTEGER(4) PROMPT 'Enter Order Number'

SELECT   BOTTLE_NUMBER CHANGED HEADING 'Bottle|Number' CENTER,
         PG_ORDER_LINK@BRAND_NAME HEADING 'Brand|Name' LEFT 28,
         PG_ORDER_LINK@BOTTLE_SCHED_CD HEADING 'Schedule',
         PG_ORDER_LINK@DOSAGE HEADING  'Dosage' RIGHT 9,
         PG_ORDER_LINK@ADMIN_PER_DOSE HEADING 'Admin|Per Dose'RIGHT 8,
         PG_ORDER_LINK@SOLUTION_RATE HEADING 'Solution|Rate'

FROM     PG_SOL_BOTTLES

WHERE    PAT_ACCT_NBR=:XPATN
         AND ORDER_NUMBER=:XORDN

ORDER BY RPAD(BOTTLE_NUMBER,4,' ')

HEADER  WRITE 'Solution Bottles' CENTER 80
        WRITE 'Printed On '|TODAY|' at '|NOW CENTER 80
        WRITE 'For Patient '|:XPATN|'  Order No. '|:XORDN CENTER 80

BREAK AFTER RPAD(BOTTLE_NUMBER,4,' ')
          WRITE 'Administer Date and Time '|ADMIN_DT_TM
          WRITE ' '

FINAL   NEWLINE 2
        WRITE 'End of Report' CENTER 80

End>
```

Figure 9.3 Drug Items in Each Solution Bottle for an Order

```
                                Solution Bottles
                            Printed 05/16/91 at 11:25 AM
                         For Patient A9109500002  Order No. 2

Bottle No    Brand              Schedule   Dosage      Admin/Dose
-----------------------------------------------------------------------------------
---
  1      AMINOSYN 10%           QB             10%       500 ML
         M.V.C. 9 + 3           FBD                       10 ML
         NOVOLIN-R INSULIN      Q3B            40 U       0.4 ML
         DEXTROSE               QB             70%       200 ML
         SODIUM ACETATE         QB             2 MEQ       1 ML
         POTASSIUM ACETATE      QB            10 MEQ       5 ML
         POTASSIUM PHOSPHATE    QB            23 MMOL    3.5 ML
         MAGNESIUM SULFATE      QB          4.06 MEQ       1 ML
         CALCIUM GLUCONATE      QB           4.5 MEQ      10 ML
Administer Date and Time 05/16/91 1400

  2      AMINOSYN 10%           QB             10%       500 ML
         DEXTROSE               QB             70%       200 ML
         SODIUM CHLORIDE        QOB           45 MEQ      18 ML
         SODIUM ACETATE         QB             2 MEQ       1 ML
         POTASSIUM ACETATE      QB            10 MEQ       5 ML
         POTASSIUM CHLORIDE     QOB           20 MEQ      10 ML
         POTASSIUM PHOSPHATE    QB            23 MMOL    3.5 ML
         MAGNESIUM SULFATE      QB          4.06 MEQ       1 ML
         CALCIUM GLUCONATE      QB           4.5 MEQ      10 ML
Administer Date and Time 05/16/91 2200

  3       AMINOSYN 10%          QB             10%       500 ML
         DEXTROSE               QB             70%       200 ML
         SODIUM ACETATE         QB             2 MEQ       1 ML
         POTASSIUM ACETATE      QB            10 MEQ       5 ML
         POTASSIUM PHOSPHATE    QB            23 MMOL    3.5 ML
         MAGNESIUM SULFATE      QB          4.06 MEQ       1 ML
         CALCIUM GLUCONATE      QB           4.5 MEQ      10 ML
Administer Date and Time 05/17/91 0600

  4      AMINOSYN 10%           QB             10%       500 ML
         M.V.C. 9 + 3           FBD            10 ML
         NOVOLIN-R INSULIN      Q3B            40 U       0.4 ML
         DEXTROSE               QB             70%       200 ML
         SODIUM CHLORIDE        QOB           45 MEQ      18 ML
         SODIUM ACETATE         QB             2 MEQ       1 ML
         POTASSIUM ACETATE      QB            10 MEQ       5 ML
         POTASSIUM CHLORIDE     QOB           20 MEQ      10 ML
         POTASSIUM PHOSPHATE    QB            23 MMOL    3.5 ML
         MAGNESIUM SULFATE      QB          4.06 MEQ       1 ML
         CALCIUM GLUCONATE      QB           4.5 MEQ      10 ML
Administer Date and Time 05/17/91 1400

                                End of Report
End (41/144)>
```

Charge Inquiry Information for One Day

QUERY DESCRIPTION

Report Name: Charge Inquiry Information for One Day

Query Name: QPG_CHG_INQUIRY

Selection Criteria: Charge Date

　　　　　　　　Patient Account Number

Sort(s): None

Description:

This report lists all pharmacy charges for a patient on a chosen day. The report is very similar to the Charge Inquiry on screen in STAR-Pharmacy. The order number, item description, time the charge occurred, the quantity charged, the patient charge, and the pharmacy cost are included on the report.

The information on the report is from the CO_CHARGE Table and the EXTRACT Command in the WHERE Statement restricts the data to pharmacy SIM information only. If the pharmacy department was not extracted, all hospital charges would print. To limit the charge information further by facility, you can include the facility code after 'RX'. For example, 'RXA'.

The FINAL Statement includes a SUM Command that totals all pharmacy charges for the day.

Notes:

This query is looking through every charge record so the time this report takes to compile depends on the number of charge records at the facility.

SAMPLE QUERY

```
   Query Name: QPG_CHG_INQUIRY                    Routine:
       Printed: 04/26/91 at 11:00 AM
   Description: Charge Inquiry Information for One Day
     Last edit: 04/10/91 at 9:48 AM by DBA
Last compile: 04/10/91 at 9:51 AM
```

SQL Text

```
READ   :XDT DATE HEADING 'Enter charge date',
       :XACCT CHARACTER(25) HEADING 'Enter Patient Account No'


SELECT  C.ORD_NBR HEADING 'Ord' COLUMN 1 LEFT 4,
        C.ITEM_DESC HEADING 'Description' COLUMN 7 LEFT 25,
        C.CHG_TM HEADING 'Time' COLUMN 35 LEFT 5,
        C.QTY HEADING 'Doses' COLUMN 42,
        C.CHG_AMT HEADING 'Amount' COLUMN 50,
        C.HOSP_COST HEADING 'Cost' COLUMN 60


FROM   AG_ACCT_IDX_EXT I,
       CO_CHARGE C


WHERE  I.PAT_ACCT_NBR=:XACCT
       AND I.INTN = C.INTN
       AND I.AN = C.AN
       AND EXTRACT(C.SIM_DPT,1,2)='RX'
       AND C.CHG_DT=:XDT


ORDER BY RPAD(C.ORD_NBR,6,' ')


HEADER WRITE 'Pharmacy Charges For Patient '|:XACCT   CENTER 80
       WRITE 'For '|:XDT CENTER 80


FINAL  NEWLINE 2
       WRITE 'Total Pharmacy Charges: $'|SUM(CHG_AMT)


End>
```

Figure 9.4 Charge Inquiry Information for One Day

```
                   Pharmacy Charges For Patient A9105800003
                                For 05/14/91

      Ord    Description              Time   Doses     Amount   Cost
      -------------------------------------------------------------------------
      10     ZINC OXIDE,30 GM         1059     1         5.00   0.80
      9      NEOSPORIN,30 GM          1058     1         5.00   0.63
      8      HEPARIN LOCK FLUSH 10U/ML 1041    1        12.00   0.40
      7      ZANTAC 150MG,TABLET      1040     1         2.90   0.77
      6      DEXTROSE 5%-NACL 0.45%-K, 1040    1        12.00   1.30
      6      DEXTROSE 5%-NACL 0.45%-K, 1040    1        12.00   1.30
      6      DEXTROSE 5%-NACL 0.45%-K, 1040    1        12.00   1.30
      5      ORETIC 25MG,TABLET       1039     1         2.60   0.02
      4      CAPOTEN 12.5MG,TABLET    1038     2         5.20   0.46
      3      SODIUM CHLORIDE 0.9%,50 M 1037    1        13.52   1.10
      3      ROBAXIN 100MG/ML,6 ML    1037     1         7.54   1.20
      3      SODIUM CHLORIDE 0.9%,50 M 1037    1        13.52   1.10
      3      ROBAXIN 100MG/ML,6 ML    1037     1         7.54   1.20
      2      MOTRIN 400MG,TABLET      1035     3         7.80   0.53

      Total Pharmacy Charges: $ 118.62
      End (14/8419)>
```

Formulary Items with No Revenue Codes

QUERY DESCRIPTION

Report Name: Formulary Items with No Revenue Codes

Query Name: QPG_FORM_INFO_AND_REV_CDS

Selection Criteria: Facility

Sort(s): Formulary Code

Description:

This report lists all formulary items that do not have revenue codes attached. The generic names and brand names are listed. The report can be printed by facility.

The query features the use of RPAD in the ORDER BY Statement. Because the system sorts in ASCII collating sequence, for example: '1,10,100,2,21,3', you can use the RPAD Command to print the formulary codes in ascending order.

SAMPLE QUERY

```
   Query Name: QPG_FORM_INFO_AND_REV_CDS        Routine:
       Printed: 04/26/91 at 11:00 AM
  Description: Formulary Items with no Revenue Codes
     Last edit: 04/06/91 at 9:47 AM by DBA
 Last compile: 04/06/91 at 9:48 AM
```

SQL Text

```
-- This report lists all formulary items that do not have revenue
-- codes attached.


READ    :XFAC CHARACTER (1) HEADING 'Enter facility indicator'

SELECT    FORMULARY_CODE HEADING 'Form Code' RIGHT 9 COLUMN 2,
          GENERIC_NAME HEADING 'Generic Name' COLUMN 17,
          CURRENT_BRAND_NAME HEADING 'Current Brand'  LEFT 25
          COLUMN 50


FROM      PG_FORMULARY


WHERE     REVENUE_CODE_IP IS NULL
          AND FAC=:XFAC


ORDER BY  RPAD(FORMULARY_CODE,5,' ')


HEADER   WRITE 'Formulary Items With No Revenue Codes' CENTER 80
         WRITE 'Facility '|:XFAC  CENTER 80
         WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80


FINAL    NEWLINE 2
         WRITE 'End of Report' CENTER 80


End>
```

Figure 9.5 Formulary Items with no Revenue Codes

```
                    Formulary Items With No Revenue Codes
                                  Facility A
                        Printed On 04/26/91 at 11:37 AM

 Form Code       Generic Name                      Current Brand
-------------------------------------------------------------------------------
         3       HYDROCHLOROTHIAZIDE               HYDROCHLOROTHIAZIDE
        75       CEFAMANDOLE NAFATE                MANDOL
       489       POTASSIUM CHLORIDE                KAOCHLOR S-F
       500       SPIRONOLACTONE/HCTZ              ALDACTAZIDE 25/25
       691       BROMPHENIRAMINE MALEATE           DIMETANE
       801       HALOPERIDOL                       HALDOL
       803       HALOPERIDOL                       HALDOL
      1007       ALUM-MAG HYDROXIDE/SIMETHICONE    MAALOX PLUS
      1008       ALUM-MAG HYDROXIDE/SIMETHICONE    MAALOX PLUS
      1170       CARBINOXAMINE/PSEUDOEPHEDRINE     RONDEC
      1181       ERYTHROMYCIN                      ERY-TABS
      1193       POTASSIUM CHLORIDE                POTASSIUM CHLORIDE
      1218       LEVOTHYROXINE SODIUM              LEVOTHROID
      1373       BETAMETHASONE VALERATE            VALISONE
      1551       ACETEST                           ACETEST
      1681       DEXTROSE                          DEXTROSE
      1688       POTASSIUM CHLORIDE                POTASSIUM CHLORIDE
      1988       ACETAZOLAMIDE SODIUM              DIAMOX STERILE
      2003       ACETAMINOPHEN                     TYLENOL EXTRA STRENGTH
      2008       ASPIRIN                           ASPIRIN
      2009       FERROUS GLUCONATE                 FERGON
      2011       SKIN EMOLLIENT                    VASELINE INTENSIVE CARE
      2022       QUININE SULFATE                   QUININE SULFATE
      2023       COUGH & COLD PREPARATION          CONTAC JR.
      2038       CHLORAMPHENICOL NA SUCCINATE      CHLOROMYCETIN
      2071       ACETAMINOPHEN                     ACETAMINOPHEN
      2085       GLYCERIN                          GLYCERIN
      2108       NAFCILLIN SODIUM                  NAFCIL
      8888       ASPIRIN/OXYCODONE                 ASPIRIN W/OXYCODONE
      8889       ZINC OXIDE                        ZINC OXIDE
      8989       BENZOYL PEROXIDE                  OXY-10
     12345       VITAMIN A/D                       A & D


                                 End of Report
End (32/2490)>
```

Stock Location Information

QUERY DESCRIPTION

Report Name: Stock Location Information

Query Name:QPG_STK_LOC_INFO

Selection Criteria: None

Sort(s): None

Description:

This report lists the floorstock location codes and descriptions as defined in the Stock Locations Table of STAR-Pharmacy. The report lists the facilities that the stock locations cover, the type of stock location, the label print group, and the restock method defined in the Stock Locations Table. All information in this query comes from the PG_STOCK_LOCATIONS Table defined for SQL.

A HEADER is used in this query to print a title for the report and also to print the date and time the report was run. The TODAY and NOW are SQL pseudo columns that are used to report current date and time.

SAMPLE QUERY

```
  Query Name: QPG_STK_LOC_INFO                    Routine:
      Printed: 04/26/91 at 11:01 AM
 Description: Stock Location Information
    Last edit: 04/08/91 at 12:16 PM by DBA
Last compile: 04/09/91 at 12:09 PM


SQL Text

--  This report lists floorstock location codes and descriptions, the
--  facility it covers, the location type, the label print group
--  defined, and the restock method for the stock location.


SELECT   LOCATION_CD HEADING 'Code',
         LOCATION_DESC HEADING 'Description' LEFT 28,
         FACILITY HEADING 'Facil',

             LOCATION_TYPE_DESC  HEADING  'Type',
         LABEL_PRINT_GROUP HEADING 'Lbl Prt' CENTER,
         RESTOCK_METHOD HEADING 'Restock Method' LEFT 12


FROM     PG_STOCK_LOCATIONS


HEADER   WRITE 'Floorstock Location Information' CENTER 80  SKIP
         WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80


FINAL    WRITE 'No More Stock Locations' CENTER 80


End>
```

Figure 9.6 Stock Location Information

```
                    Floorstock Location Information
                    Printed On 04/26/91 at 11:20 AM

Code    Description              Facil  Type  Lbl Prt  Restock Method
-------------------------------------------------------------------------
1E      1E NURSING UNIT          AB     SAT    RXI     Charge Label
1M      1M O/P PHARMACY          AB     O/P    RXO     Charge Label
1N      1N NURSING UNIT          A      SAT    RXN     Daily Usage
1S      1S NURSING UNIT          A             RXS     Charge Label
2C      SECOND FLOOR CONTROLLED DRUG  A        RXI     Daily Usage
2E      2E NURSING UNIT          A             RXI     Charge Label
2NC     SECOND FLOOR NON-CONTROLLED   A        RXI     Daily Usage
2S      2S FLOORSTOCK            A                     Daily Usage
2SS     2 SOUTH SATELLITE        A      SAT    RXT     Reorder List
3E      3E NURSE STATION         A                     Charge Label
3M      3M NURSE STATION         AB            RXI     Demand Usage
3N      3NORTH NURSE STATION     A             RXI     Demand Usage
3S      3 SOUTH NURSE STATION    A             RXI     Demand Usage
4E      4E NURSING UNIT          A             RXI     Charge Label
4N      4N NURSING UNIT          A             RXI     Daily Usage
4M      4M OUTPATIENT SERVICES   B      O/P    RX4     Daily Usage
4S      4S NURSING UNIT          A             RXI     Daily Usage
5C      5C NURSING UNIT          A                     Daily Usage
5E      5E NURSING UNIT          A                     Daily Usage
5PED    5TH FLOOR PEDS           A             RXD     Daily Usage
5R      5R NURSING UNIT          A                     Daily Usage
5SAT    5TH SATELLITE            A      SAT    RXM     Daily Usage
5W      5W NURSING UNIT          A             RXI     Daily Usage
6E      6E NURSING UNIT          A                     Daily Usage
6MNC    6M NON-CONTROLS          B             RXB     Daily Usage
6N      6N NURSING UNIT          A             RXI     Daily Usage
6SAT    6TH SATELLITE            A      SAT    RX6     Daily Usage
6W      6W NURSING UNIT          A             RXI     Daily Usage
CCU     CARDIAC CARE UNIT        A                     Charge Label
ICU     INTENSIVE CARE UNIT      A             RXI     Daily Usage
OBS     OBSTETRICS               A                     Demand Usage
PED     PEDIATRICS               A             RXP     Demand Usage
RXI     INPATIENT PHARMACY       A             RXI     Demand Usage
RXIA    MAIN PHARMACY (A)        A             RXI     Charge Label
RXIB    INPATIENT PHARMACY (B)   B             RXB     Demand Usage
RXIO    INPATIENT OUTPATIENT PHARMAC  A   O/P  RXO     Charge Label
RXO     OUTPATIENT PHARMACY      A      O/P    RXO     Demand Usage
RXOB    OUTPATIENT PHARMACY (B)  B      O/P    RX3     Demand Usage
SATS    SURGERY SATELLITE        A      SAT    RXS     Demand Usage
SAT1    SATELLITE 1              A      SAT    RX1     Daily Usage

                    No More Stock Locations


End (65/65)>
```

Formulary Items with Shelf Bin Location

QUERY DESCRIPTION

Report Name: Formulary Items with Shelf/Bin Location

Query Name:QPG_SHELF_BIN_LOCATION

Selection Criteria: None

Sorts: Formulary Code

Shelf/Bin Locations

Description:

This report lists formulary items with data entered in the free-form "Shelf/Bin" location field on the Floorstock Maintenance screen.

SAMPLE QUERY

```
   Query Name: QPG_SHELF_BIN_LOCATION                    Routine:
       Printed: 03/10/95 at 10:51 AM
  Description: Formulary Items with a Shelf/Bin Location
     Last edit: 03/10/95 at 10:51 AM by DBA
```

SQL Text

```
--   This report lists formulary items with data entered in the free-form
--   "Shelf/Bin Location" field on the Floorstock Maintenance screen.
READ        :XFAC CHARACTER (1) PROMPT 'Enter Facility'

SELECT    FORMULARY CODE CHANGED HEADING 'Formulary|Code' LEFT 4,
          PG_FORM_LINK@GENERIC_NAME HEADING 'Generic|Name' LEFT 28,
          CURRENT_LEVEL HEADING 'Current|Level   '
          MAXIMUM_LEVEL HEADING 'Maximum|Level   '
          REORDER_LEVEL HEADING 'Reorder|Level   '
          EMERGENCY_LEVEL_HEADING 'Emergency|Level     '

FROM      PG_FORMULARY_USAGE

WHERE     SHELF_BIN_LOC IS NOT NULL
          AND FAC = :XFAC

ORDER BY SHELF_BIN_LOC, FORMULARY_CODE

BREAK AT SHELF_BIN_LOC
 NEWLINE
 WRITE SHELF_BIN_LOC

HEADER     WRITE 'Formulary Items with Shelf/Bin Locations' CENTER 80
           WRITE 'For Faculty '|:XFAC CENTER 80
           WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80

End>
```

Active Orders Dispensed Traditionally

QUERY DESCRIPTION

Report Name: Active Orders Dispensed Traditionally

Query Name: QPG_TRAD_FILL

Selection Criteria: None

Sort(s):   Station

Patient

Description:

This report lists all active orders that have traditionally dispensed items. The report lists the orders for each patient within each station. The order number, brand name, drug form, and dosage are also printed on the report.

The query information is from the PG_ACTIVE_ORDERS Table with a MED_LINK foreign key that links medical information from the AG_MEDICAL Table. The query contains a compound WHERE Statement. The information on the report only includes items that are dispensed as 'Traditional' and have a status of 'Active' or 'Not Started'. In the SELECT Statement, the query combines three columns into one column using the vertical bar.

SAMPLE QUERY

```
  Query Name: QPG_TRAD_FILL                    Routine:
       Printed: 04/26/91 at 11:02 AM
  Description: Active Orders Dispensed Traditionally
     Last edit: 04/10/91 at 1:17 PM by DBA
Last compile: 04/10/91 at 1:33 PM


SQL Text

--  This report lists active traditional orders by station and then
--  by patient.


SELECT    MED_LINK@STATION CHANGED HEADING 'STA',
          PAT_NAME CHANGED HEADING 'Patient' LEFT 15 COLUMN 5,
          ORDER_NUMBER  HEADING  'Ord No' CENTER COLUMN 23,
          BRAND_NAME|' '|STRENGTH HEADING 'Name' LEFT 27 COLUMN 30,
          PACKAGE_SIZE|' '|DRUG_FORM|' '|DOSAGE_FORM HEADING 'Pkg Size'
               LEFT 19 COLUMN  61


FROM      PG_ACTIVE_ORDERS


WHERE     DISPENSE_METHOD='Traditional'
          AND (ORDER_STATUS='ACT'
          OR ORDER_STATUS='NS')


ORDER BY  MED_LINK@STATION, PAT_NAME


BREAK AFTER 1  SKIP 1


BREAK AFTER 2  SKIP 1


HEADER    WRITE 'Traditionally Dispensed Orders' CENTER 80
          WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80
End>
```

Figure 9.7 Active Orders Dispensed Traditionally

```
                      Traditionally Dispensed Orders
                      Printed On 04/26/91 at 11:25 AM

STA   Patient         Ord No Name                         Pkg Size
-------------------------------------------------------------------------
1E    MANLEY,ROBERT     31   NYSTATIN-NEO-GRAMICIDIN-TRI  15 GM OINTMENT

      ROSS,CLAY          1   NEOSPORIN                    30 GM OINTMENT

      SOAPER,CAROLE     10   SINEAID                      30 EA TABLET

1N    ANDREWS,MARY       2   ROBITUSSIN AC                120 ML ELIXIR
                         3   LIDOCAINE VISCOUS 20 MG      100 ML LIQUID

      CHAPS,SUSAN       21   REGULAR INSULIN              10 ML INJECTION
                        22   LENTE ILETIN II PORK INSULI  10 ML INJ
                        27   GLUCOSTIX 100                100 EA STRIP

      HAMMER,RICKY       6   CEPACOL THROAT               18 EA LOZENGE

2E    BOONE,DAN         14   HIBICLENS CLEANSER 4 %       480 ML SOLUTION

      MEYERS,ANDY       23   RETIN A 0.05 %               20 GM CREAM
                        24   CLEOCIN T 1 %                60 ML LOTION

      WILLIAMSON,SARA    7   NOVOLIN-R INSULIN 100 U      10 ML INJECTION
                         9   MAALOX TC                    180 ML SUSPENSION

2S    GRIMES,LAURA       2   MYLANTA                      150 ML SUSPENSION

      MOONEY,DAVID P     8   HYDROCORTISONE 1 %           30 GM CREAM

3N    SMITH,JOHN        10   MAALOX                       180 ML SUSPENSION
                         8   NITROL 2 %                   30 GM OINTMENT
                         9   NOVOLIN-N INSULIN 10 U       10 ML INJ

End (20/113)>
```

Drug Items and Costs by Vendor - I/P

QUERY DESCRIPTION

Report Name: Drug Items and Costs by Vendor

Query Name:QPG_ITEM_BY_VENDOR_IP

Selection Criteria: Facility

Vendor Code

Sort(s): None

Description:

This report lists the items assigned to the vendor for the inpatient stock location. It includes the formulary code, the drug name, strength and dosage form, the package description, vendor cost, and inpatient acquisition cost.

This query demonstrates the use of a CASE Statement. If the purchasing unit conversion is null, you do not want to divide by zero; however, to get the actual package price if the item has a purchasing unit conversion, you must divide by the purchasing unit conversion.

The EXTRACT Statement in the WHERE Clause narrows the stock location search to all locations that begin with RXI. If this statement is not defined, the items print for both the inpatient and outpatient locations. The inpatient acquisition cost is printing on the report, therefore including outpatient items is not valid.

SAMPLE QUERY

```
   Query Name: QPG_ITEM_BY_VENDOR_IP             Routine:
        Printed: 04/26/91 at 11:03 AM
  Description: Inpatient Drug Items and Costs by Vendor
     Last edit: 04/19/91 at 4:34 PM by DBA
Last compile: 04/19/91 at 3:39 PM


SQL Text

--  This report lists the drug items and costs from vendor as defined
--  in Formulary Vendor Information for the Inpatient Pharmacy


READ      :XFAC CHARACTER(1) HEADING 'Enter Facility Code'
READ      :XPVR CHARACTER(30) HEADING 'Enter Vendor Code '


SELECT    VENDOR_DESC  CHANGED  HEADING  ' '  COLUMN  1  SKIP 1,
          FORMULARY_CODE HEADING 'Code'  LEFT 4 COLUMN 3,
          PG_FORMULARY_LINK@CURRENT_BRAND_NAME |' '|
          PG_FORMULARY_LINK@STRENGTH|' '|
          PG_FORMULARY_LINK@DOSAGE_FORM  HEADING 'Name' LEFT 25 COLUMN 10,
          PG_FORMULARY_LINK@PACKAGE_DESC HEADING 'Pkg'  LEFT 16 COLUMN 38,
          CASE WHEN PURCH_UNIT_CONVER IS NOT NULL
              THEN VENDOR_ITEM_PRICE/PURCH_UNIT_CONVER
          ELSE VENDOR_ITEM_PRICE END
              HEADING 'Ven Cost' RIGHT 8 COLUMN  57,
          PG_FORMULARY_LINK@ACQ_COST_IP*PG_FORMULARY_LINK@PACKAGE_SIZE
              HEADING  'Acq Cost'  RIGHT  8 COLUMN 68


FROM      PP_FORM_VENDORS


WHERE     VENDOR_CODE=:XPVR
          AND FAC=:XFAC
          AND EXTRACT(LOCATION,1,3)='RXI'


ORDER BY PG_FORMULARY_LINK@CURRENT_BRAND_NAME


HEADER    WRITE 'Vendor Listing and Current Pricing' CENTER 80
          WRITE 'For Facility '|:XFAC| ' Inpatient Location' CENTER 80
          WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80
End>
```

Figure 9.8 Drug Items and Cost by Vendor - I/P

```
                         Vendor Listing and Current Pricing
                         For Facility A Inpatient Location
                         Printed On 04/26/91 at 11:45 AM

   Code    Name                         Pkg               Ven Cost   Acq Cost
 -----------------------------------------------------------------------------
 ABC Pharmaceuticals
   1597    ACETAMINOPHEN 650 MG SUPP    U/D 12'S            1.7400     2.6000
   1598    ACETAMINOPHEN 120 MG SUPP    U/D 12'S            2.6900     2.1500
   220     ACHROMYCIN IV .5 GM INJEC    VIAL 500MG         12.9200    12.9200
   2432    ALDOMET 500 MG TABLET        BTL 500'S         221.6100   232.0000
   682     AUGMENTIN 250  TABLET        BTL 30'S           36.6000    36.6000
   178     BACTRIM DS  TABLET           U/D TELE DOSE 10   58.9000    58.9000
   63      BELLADONNA TINC  ELIXIR      BTL 120ML          32.0360    32.0360
   1244    CAFERGOT  SUPPOSITORY        SIGPAK 12'S        15.8800    11.7900
   1002    CHARDONNA 2  TABLET          BTL 100'S          10.2010    10.2010
   943     COUMADIN 2 MG TABLET         U/D 100'S          35.1000    35.1000
   944     COUMADIN 2.5 MG TABLET       U/D 100'S          36.2000    36.2000
   945     COUMADIN 5 MG TABLET         U/D 100'S          36.7000    36.7000
   946     COUMADIN 7.5 MG TABLET       U/D 100'S          55.4000    55.4000
   1456    DALMANE 15 MG CAPSULE        BTL 500'S         186.6600   186.6600
   1617    DEXTROSE 5 % INJECTION       IV BAG 12X1000ML   14.7200    14.7200
   1620    DEXTROSE 5 % INJECTION       IV BAG 24X250ML    27.3920    27.3920
   646     DRAMAMINE  ELIXIR            BTL 480ML          12.0960    12.0960
   50      DYMELOR 250 MG TABLET        U/D 200'S          24.3100    25.3210
   1168    EES 400 400 MG TABLET        U/D 10X10          17.5500    17.5500
   425     HALCION .25 MG TABLET        U/D VISIPAK 4X25   43.3900    43.3900
   1212    LIPOSYN II 10%  INJECTION    IV SET 8X500ML     75.4362    77.2306
   959     MIOCHOL INTRAOCULAR  SOLU    UNI VIAL 2ML       14.6000    13.9400
   759     MYLANTA  TABLET CHEWABLE     BOX 100'S           2.3500     2.3500
   1040    NOVAHISTINE DH  ELIXIR       BTL 120ML           6.0820     6.0820
   2493    PHENAPHEN 325 MG TABLET      BTL 100'S           3.5000     4.2600
   636     PONTOCAINE .5 % OINTMENT     TUBE 30GM           4.9200     4.9200
   635     PONTOCAINE OPHTH .5 % OIN    TUBE 3.75GM         4.6700     4.6700
   702     REGLAN 5 MG INJECTION        AMP 5X2ML           9.4200     8.8700
   2433    ROBITUSSIN  ELIXIR           BTL GAL            47.7600    47.7600
   710     ROBITUSSIN  ELIXIR           DISCO PACK 100X5   23.4700    23.4700
   182     ROCALTROL .25 MCG CAPSULE    BTL 100'S          71.8700    82.6300
   2006    ST JOSEPH CHILDS ASPIRIN     BTL 12X36          10.4206    12.3200
   1439    TAGAMET 200 MG TABLET        BTL 100'S          36.8900    36.8900
   2296    TYLENOL 325 MG TABLET        BTL 100'S           5.0300     5.0300
   2344    TYLENOL EXTRA STRENGTH 50    BTL 200'S           2.5000     3.7400
   811     TYLENOL W/CODEINE #1  TAB    BTL 100'S          10.9800    10.9800
   812     TYLENOL W/CODEINE #2  TAB    U/D 20X25          10.0000    10.0000
 End (39/145)>
```

Drug Items and Costs by Vendor - O/P

QUERY DESCRIPTION

Report Name: Drug Items and Costs by Vendor

Query Name: QPG_ITEM_BY_VENDOR_OP

Selection Criteria: Facility

Vendor Code

Sort(s): None

Description:

This report lists the items assigned to the vendor for the outpatient stock location. It includes the formulary code, the drug name, strength, and dosage form, the package description, vendor cost, and outpatient acquisition cost from the formulary.

This query demonstrates the use of a CASE Statement. If the purchasing unit conversion is null, you do not want to divide by zero, but to get the actual package price if the item has a purchasing unit conversion, you must divide by the purchasing unit conversion.

The EXTRACT Statement in the WHERE Clause narrows the stock location search to all locations that begin with RXO. If this statement is not defined, the items print for both the inpatient and outpatient locations. The outpatient acquisition cost is printing on the report; therefore, including inpatient items is not valid.

SAMPLE QUERY

```
   Query Name: QPG_ITEM_BY_VENDOR_OP              Routine:
       Printed: 04/26/91 at 11:04 AM
  Description: Outpatient Drug Items and Costs by Vendor
     Last edit: 04/19/91 at 4:24 PM by DBA
Last compile: 04/19/91 at 4:26 PM


SQL Text

--  This report lists the drug items and costs from vendor as defined
--  in Formulary Vendor Information for the Outpatient Pharmacy

READ     :XFAC CHARACTER(1) HEADING 'Enter Facility Code'
READ     :XPVR CHARACTER(30) HEADING 'Enter Vendor Code '

SELECT   VENDOR_DESC  CHANGED  HEADING  ' '  COLUMN  1  SKIP 1,
         FORMULARY_CODE HEADING 'Code'  LEFT 4 COLUMN 3,
         PG_FORMULARY_LINK@CURRENT_BRAND_NAME |' '|
         PG_FORMULARY_LINK@STRENGTH|' '|
         PG_FORMULARY_LINK@DOSAGE_FORM  HEADING 'Name' LEFT 25 COLUMN 10,
         PG_FORMULARY_LINK@PACKAGE_DESC HEADING 'Pkg'  LEFT 16 COLUMN 38,
         CASE WHEN PURCH_UNIT_CONVER IS NOT NULL
             THEN VENDOR_ITEM_PRICE/PURCH_UNIT_CONVER
         ELSE VENDOR_ITEM_PRICE END
             HEADING 'Ven Cost' RIGHT 8 COLUMN  57,
         PG_FORMULARY_LINK@ACQ_COST_OP*PG_FORMULARY_LINK@PACKAGE_SIZE
                   HEADING  'Acq Cost'  RIGHT  8 COLUMN 68


FROM     PP_FORM_VENDORS


WHERE    VENDOR_CODE=:XPVR
         AND FAC=:XFAC
         AND EXTRACT(LOCATION,1,3)='RXO'


ORDER BY PG_FORMULARY_LINK@CURRENT_BRAND_NAME


HEADER   WRITE 'Vendor Listing and Current Pricing' CENTER 80
         WRITE 'For Facility '|:XFAC| ' Outpatient Location' CENTER 80
         WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80
End>
```

Figure 9.9 Drug Items and Costs by Vendor - O/P

```
                    Vendor Listing and Current Pricing
                    For Facility A Outpatient Location
                     Printed On 04/26/91 at 11:47 AM

    Code   Name                        Pkg                Ven Cost   Acq Cost
  --------------------------------------------------------------------------------
  ABC Pharmaceuticals
    1597   ACETAMINOPHEN 650 MG SUPP   U/D 12'S             1.7400     2.6000
    1598   ACETAMINOPHEN 120 MG SUPP   U/D 12'S             2.6900     2.1500
    220    ACHROMYCIN IV .5 GM INJEC   VIAL 500MG          12.9200    12.9200
    2432   ALDOMET 500 MG TABLET       BTL 500'S          221.6100   232.0000
    682    AUGMENTIN 250   TABLET      BTL 30'S            36.6000    36.6000
    178    BACTRIM DS   TABLET         U/D TELE DOSE 10    58.9000    58.9000
    63     BELLADONNA TINC  ELIXIR     BTL 120ML           32.0360    32.0360
    1244   CAFERGOT  SUPPOSITORY       SIGPAK 12'S         15.8800    11.7900
    1002   CHARDONNA 2  TABLET         BTL 100'S           10.2010    10.2010
    943    COUMADIN 2 MG TABLET        U/D 100'S           35.1000    35.1000
    944    COUMADIN 2.5 MG TABLET      U/D 100'S           36.2000    36.2000
    945    COUMADIN 5 MG TABLET        U/D 100'S           36.7000    36.7000
    946    COUMADIN 7.5 MG TABLET      U/D 100'S           55.4000    55.4000
    1456   DALMANE 15 MG CAPSULE       BTL 500'S          186.6600   186.6600
    1617   DEXTROSE 5 % INJECTION      IV BAG 12X1000ML    14.7200    14.7200
    1620   DEXTROSE 5 % INJECTION      IV BAG 24X250ML     27.3920    27.3920
    646    DRAMAMINE  ELIXIR           BTL 480ML           12.0960    12.0960
    50     DYMELOR 250 MG TABLET       U/D 200'S           24.3100    25.3210
    1168   EES 400 400 MG TABLET       U/D 10X10           17.5500    17.5500
    425    HALCION .25 MG TABLET       U/D VISIPAK 4X25    43.3900    43.3900
    1212   LIPOSYN II 10%   INJECTION  IV SET 8X500ML      75.4362    77.2306
    959    MIOCHOL INTRAOCULAR   SOLU  UNI VIAL 2ML        14.6000    13.9400
    759    MYLANTA   TABLET CHEWABLE   BOX 100'S            2.3500     2.3500
    1040   NOVAHISTINE DH  ELIXIR      BTL 120ML            6.0820     6.0820
    2493   PHENAPHEN 325 MG TABLET     BTL 100'S            3.5000     4.2600
    636    PONTOCAINE .5 % OINTMENT    TUBE 30GM            4.9200     4.9200
    635    PONTOCAINE OPHTH .5 % OIN   TUBE 3.75GM          4.6700     4.6700
    702    REGLAN 5 MG INJECTION       AMP 5X2ML            9.4200     8.8700
    2433   ROBITUSSIN  ELIXIR          BTL GAL             47.7600    47.7600
    710    ROBITUSSIN  ELIXIR          DISCO PACK 100X5    23.4700    23.4700
    182    ROCALTROL .25 MCG CAPSULE   BTL 100'S           71.8700    82.6300
    2006   ST JOSEPH CHILDS ASPIRIN    BTL 12X36           10.4206    12.3200
    1439   TAGAMET 200 MG TABLET       BTL 100'S           36.8900    36.8900
    2296   TYLENOL 325 MG TABLET       BTL 100'S            5.0300     5.0300
    2344   TYLENOL EXTRA STRENGTH 50   BTL 200'S            2.5000     3.7400
    811    TYLENOL W/CODEINE #1   TAB  BTL 100'S           10.9800    10.9800
    812    TYLENOL W/CODEINE #2   TAB  U/D 20X25           10.0000    10.0000
  End (39/145)>
```

Patients on Drugs from Same AHFS Class

QUERY DESCRIPTION

Report Name: Patients on Drugs from Same AHFS Class

Query Name:QPG_ORD_INFO_BY_AHFS

Selection Criteria:AHFS Class Code

Sort(s):Patient Name

Description:

This report lists all active or not started patient orders that contain drug items from a specified AHFS class. The report sorts the information by patient name. The brand name, order number, ordering physician, start date and time and stop date and time are included on the report.

This query demonstrates the use of a compound WHERE clause separated by parentheses. It also displays the use of EVENT BLOCKS in the DETAIL section by choosing NULL in the SELECT clause and defining all report criteria in the DETAIL statement.

NOTE: The date and time columns, Start Date and Time and Stop Date and Time, are two fields combined into each column by using the vertical bar.

SAMPLE QUERY

```
  Query Name: QPG_ORD_INFO_BY_AHFS           Routine:
      Printed: 05/14/91 at 11:28 AM
  Description: Order Information Sorted by AHFS Classes
    Last edit: 05/13/91 at 9:05 AM by DBA
Last compile: 05/13/91 at 9:08 AM
SQL Text
========
--This report lists patients who have active or unverified orders that
--contain drug items from a specified AFHS class.


READ      :XAHFS CHARACTER(6) HEADING 'Enter AHFS Class--'


SELECT    NULL


FROM      PG_ACTIVE_ORDERS C


WHERE     (ORDER_STATUS='ACT' OR
           ORDER_STATUS='NS') AND
          (FORMULARY_LINK@AHFS_NO_1=:XAHFS OR
           FORMULARY_LINK@AHFS_NO_2=:XAHFS OR
           FORMULARY_LINK@AHFS_NO_3=:XAHFS)


ORDER BY  PAT_NAME


DETAIL    WRITE PAT_NAME HEADING 'Patient' CHANGED LEFT 20 COLUMN 1,
          BRAND_NAME HEADING  'Brand'  LEFT 20  COLUMN 4,
          ORDER_NUMBER HEADING 'Order' LEFT 3 COLUMN 24,
          ORDERING_PHYS_NAME HEADING 'Ord Physician' COLUMN 30 LEFT 15,
          START_DATE|' '|START_TIME HEADING  'Start Date/Time'
              LEFT 15 COLUMN 47,
          STOP_DATE|' '|STOP_TIME HEADING 'Stop Date/Time'
              LEFT  14  COLUMN 64
BREAK AT 1 SKIP


HEADER WRITE  'Patients  on  Drugs  from  Same  AHFS Class' CENTER 80
       WRITE  'AHFS Class  '|:XAHFS| COLUMN 5, 'Printed On '|TODAY| 'at
              '|NOW   COLUMN  45


          FINAL WRITE  'End  of  Report'  CENTER  80  SKIP  2
End>
```

Figure 9.10 Patients on Drugs from Same AHFS Class

```
                    Patients  on  Drugs  from  Same  AHFS Class
        AHFS Class   280804                    Printed On 05/14/91 at 11:31 AM

     Patient
        Brand            Order   Ord Physician   Start Date/Time  Stop Date/Time
    --------------------------------------------------------------------------------
     ANDERSON,RALPH S
        FELDENE            14      TRULUCK,RICHARD  05/07/91 1600

     BLAKE,LEE
        ASPIRIN            23      LEES,JACK R      05/10/91 0900
        FELDENE             4      LEES,JACK R      05/10/91 0900

     CRAIN,KAREN
        ASPIRIN             1      MARTIN,DWIGHT L  05/10/91 1600
        MOTRIN             12      MARTIN,DWIGHT L  05/10/91 1600

     DILLARD,DAVID L
        FELDENE             8      SMITH,JANE R     05/10/91 1600     05/13/91 0801
        ASPIRIN            12      SMITH,JANE R     05/10/91 1600

     DOSSER,JOAN L
        ASPIRIN             1      LEES,JACK R      05/10/91 1600

     GROSS,PAULA
        ASPIRIN BUFFERED    1      ADAIR,FRANK C    05/10/91 1600

     RILEY,GUY F
        ASPIRIN             5      JONES,RICK       05/10/91 1000
        MOTRIN              7      JONES,RICK       05/10/91 1600

     SMITH,JOHN
        ASPIRIN             3      JEFFERSON,DRAKE  05/07/91 1200     05/10/91 1200
        FELDENE            13      JEFFERSON,DRAKE  05/10/91 1000
        ASPIRIN            17      JEFFERSON,DRAKE  05/10/91 1600
        MOTRIN              5      JEFFERSON,DRAKE  05/06/91 1600

     TEAL,ROBERT
        MOTRIN              2      TRULUCK,RICHARD  05/14/91 1000

     WEIR,BRENT
        FELDENE            11      LEES,JACK R      04/07/91 1000
        NUPRIN             18      LEES,JACK R      04/19/91 1000

                               End  of  Report
    End (19/136)>
```

Run DUR Active and Inactive Data Reports

QUERY DESCRIPTION

Report Name: Run DUR Active and Inactive Data Reports

Query Name:QPG_RUN_DUR_REPORTS

Selection Criteria:Beginning Order Start Date

Ending Order Start Date

Facility

Formulary Code

Sort(s):None

Description:

This report is actually two separate reports that have been set up to print DUR information. The first report is for active patients and the second report is for inactive patients. The report names are QPG_DUE_AND_DUR_ACTIVE and QPG_DUE_AND_DUR_INACTIVE. These are described in more detail in the following query descriptions for the reports.

This query demonstrates the use of the RUN function. This function is similar to a BATCH function in that you can set up a query to run any number of already defined reports. The reports must be compiled before they can be run with the RUN Query. By setting up the READ Statements in this RUN query, both reports can use the same criteria without entering information twice.

NOTE: Please see the two following report descriptions, queries, and samples for report information.

SAMPLE QUERY

```
  Query Name: QPG_RUN_DUR_REPORTS                Routine:
      Printed: 05/14/91 at 11:24 AM
 Description: Run DUR Active and Inactive Data Reports
    Last edit: 05/10/91 at 4:55 PM by DBA
Last compile: 05/10/91 at 4:56 PM


SQL Text
========
--This query runs both the DUR Active and Inactive reports.  It allows
--setup of both reports at the same time.


READ  :XBD DATE HEADING 'Enter Beginning Start Date--'
READ  :XED DATE HEADING 'Enter Ending Start Date--'
READ  :XFAC CHARACTER(1) HEADING 'Enter Facility Code--'
READ  :XFCD INTEGER(5) HEADING 'Enter Formulary Code--'


RUN   QPG_DUE_AND_DUR_TREND_ACTIVE,
      QPG_DUE_AND_DUR_TREND_INACTIVE
End>
```

Figure 9.11 Run DUR Active Data Report

```
                        Drug Tracking Report
                     Facility A For Active Patients
                    Printed On 05/03/91 at 11:25 AM
              Formulary Item 2008 during 05/01/91 and 05/02/91

Start Date      Patient                 Ord Phys         Freq
        Diag
--------------------------------------------------------------------------------
05/01/91        WEIR,BRENT              LEES,JACK R       TID
        64302

05/02/91        DOWNS,JOAN L            LEES,JACK R       PRN
        7890
                RILEY, GUY F            GROSS,ANDREA      QD
        00321
                DARREN,DAVID            SMITH,JANE R      PRN
        8249
                CLASS,KAREN             MARTIN,DWIGH      PRN
        8249
                SMITH,JOHN              JEFFERSON,DO      PRN
        9765
                BAILEY,LEE              LEES,JACK R       QD
        78650

End (7/136)>
```

Figure 9.12 Run DUR Inactive Data Report

```
                              Drug Tracking Report
                         Facility A For Inactive Patients
                         Printed On 05/03/91 at 11:26 AM
                   Formulary Item 2008 during 05/01/91 and 05/02/91

Start Date      Patient                    Ord Phys          Freq
        Diag
--------------------------------------------------------------------------------
05/01/91        MANNING,STEVEN             COLEMAN,MICH      TID
        9952
                SMITH,ANNIE                SESANG,LONNI      PRN
        9765
                POOLE,PAM                  WHATLEY,EDWA      PRN
        6503
                WARD,MICHAEL               LEES,JACK         QD
        8249
                EDWARDS,DONALD             JEFFERSON,DO      PRN
        78650


End (1/29)>
```

Medication Usage for a Specific Time Period - Active Patients

QUERY DESCRIPTION

Report Name: Medication Usage for a Specific Time Period - Active Pts

Query Name:QPG_DUE_AND_DUR_TREND_ACTIVE

Selection Criteria:Beginning Order Start Date

Ending Order Start Date

Facility

Formulary Code

Sort(s):Order Start Date

Description:

This report trends medication usage over a specified period of time for active patients. It is sorted by the order start date. The working diagnosis code, patient name, ordering physician, and order frequency is included on the report. The HEADER includes all setup information and the date and time the report was printed.

This query demonstrates the use of the DECLARE Statement. This is used as opposed to the READ Statement so that the variables can be defined when the QPG_RUN_DUR_REPORTS query is run.

NOTE: This report was designed to run with the inactive report by using the QPG_RUN_DUR_REPORTS query. If this report is run separately it needs to be copied to another query name and the DECLARE Statements need to be changed to READ Statements.

SAMPLE QUERY

```
   Query Name: QPG_DUE_AND_DUR_TREND_ACTIVE      Routine:
      Printed: 05/14/91 at 11:26 AM
 Description: Medication Usage for a Specific Time Frame - Active Pts
    Last edit: 05/13/91 at 10:55 AM by DBA
Last compile: 05/13/91 at 10:58 AM
SQL Text
========
--This report tracks medication usage for a specified time period for
--active patients


SET        CSPACE=6


DECLARE    :XBD DATE,
           :XED DATE,
           :XFAC CHARACTER(1),
           :XFCD INTEGER(5)


SELECT   START_DATE CHANGED HEADING 'Start Date',
         PAT_NAME HEADING 'Patient' LEFT 20,
         ORDERING_PHYS_NAME  HEADING 'Ord Phys' LEFT 12,
         FREQUENCY HEADING 'Freq' LEFT 3,
         DOSAGE HEADING 'Dosage',
         MED_LINK@WK_DIAG_CD HEADING 'Diag'


FROM     PG_ACTIVE_ORDERS


WHERE    START_DATE BETWEEN :XBD AND :XED AND
         FAC=:XFAC AND
         FORMULARY_CODE =:XFCD
ORDER  BY  START_DATE,  PAT_NAME


BREAK AFTER START_DATE
 WRITE 'Total Patients '|COUNT(PAT_NAME BY 1)
 NEWLINE
HEADER   WRITE 'Drug Tracking Report' CENTER 80
         WRITE 'Facility '|:XFAC| ' For Active Patients' CENTER 80
         WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80
         WRITE 'Formulary Item '|:XFCD| ' during '|:XBD| ' and '|:XED
                CENTER 80
   End>
```

Figure 9.13 Medication Usage for a Specific Time Period - Active Patients

```
                        Drug Tracking Report
                     Facility A For Active Patients
                      Printed On 05/03/91 at 11:25 AM
                 Formulary Item 2008 during 05/01/91 and 05/02/91

Start Date      Patient                   Ord Phys           Freq
        Diag
-----------------------------------------------------------------------------
05/01/91        WEIR,BRENT DALLAS         LEES,JACK R        TID
        64302

05/02/91        DOWNS,JOAN L              LEES,JACK R        PRN
        7890
                RILEY, GUY F              GROSS,ANDREA       QD
        00321
                DARREN,DAVID              SMITH,JANE R       PRN
        8249
                CRAIN,KAREN               MARTIN,DWIGH       PRN
        8249
                SMITH,JOHN                JEFFERSON,DO       PRN
        9765
                BAILEY,LEE                LEES,JACK R        QD
        78650

End (7/136)>
```

Medication Usage for a Specific Time Period - Inactive Patients

QUERY DESCRIPTION

Report Name: Medication Usage for a Specific Time Period -Inactive Pts

Query Name:QPG_DUE_AND_DUR_TREND_INACTIVE

Selection Criteria:Beginning Order Start Date

Ending Order Start Date

Facility

Formulary Code

Sort(s):Order Start Date

Description:

This report trends medication usage over a specified period of time for inactive patients. It is sorted by the order start date. The working diagnosis code, patient name, ordering physician, and order frequency is included on the report. The HEADER includes all setup information and the date and time the report was printed.

This query demonstrates the use of the DECLARE Statement. This is used as opposed to the READ Statement so that the variables can be defined when the QPG_RUN_DUR_REPORTS query is run. The SET CSPACE statement is used to change the default spacing between columns.

NOTE: This report was designed to run with the active report by using the QPG_RUN_DUR_REPORTS query. If this report is run separately it needs to be copied to another query name and the DECLARE Statements need to be changed to READ Statements.

SAMPLE QUERY

```
   Query Name: QPG_DUE_AND_DUR_TREND_INACTIVE              Routine:
      Printed: 05/14/91 at 11:26 AM
 Description: Drug Usage for a Specific Time Frame for Inactive Pts
    Last edit: 05/13/91 at 11:05 AM by DBA
Last compile: 05/13/91 at 11:10 AM


SQL Text
========
--This report tracks medication usage for a specified time period for
--inactive patients


DECLARE      :XBD DATE
DECLARE      :XED DATE
DECLARE      :XFAC CHARACTER(1)
DECLARE      :XFCD INTEGER(5)


SELECT   START_DATE CHANGED HEADING 'Start Date',
         PAT_NAME HEADING 'Patient' LEFT 20,
         ORDERING_PHYS_NAME  HEADING 'Ord Phys' LEFT 12,
         FREQUENCY HEADING 'Freq' LEFT 3,
         DOSAGE HEADING 'Dosage'
         MED_LINK@WK_DIAG_CD HEADING 'Diag'


FROM     PG_INACTIVE_ORDERS


WHERE    START_DATE BETWEEN :XBD AND :XED AND
         FAC=:XFAC AND
         FORMULARY_CODE =:XFCD


ORDER  BY  START_DATE, PAT NAME


BREAK AFTER START_DATE
 WRITE 'Total Patients '|COUNT(PAT_NAME BY 1)
 NEWLINE
HEADER   WRITE 'Drug Tracking Report' CENTER 80 End
         WRITE 'Facility '|:XFAC| ' For Inactive Patients' CENTER 80
         WRITE 'Printed On '|TODAY|' at '|NOW CENTER 80
         WRITE 'Formulary Item '|:XFCD| ' during '|:XBD| ' and '|:XED
               CENTER 80
```

Figure 9.14 Medication Usage for a Specific Time Period - Inactive Patients

```
                          Drug Tracking Report
                     Facility A For Inactive Patients
                       Printed On 05/03/91 at 11:26 AM
                Formulary Item 2008 during 05/01/91 and 05/02/91

Start Date        Patient                    Ord Phys          Freq
        Diag
-------------------------------------------------------------------------------
05/01/91          MANNING,STEVEN             COLEMAN,MICH      TID
        9952
                  SMITH,ANNIE                SESANG,LONNI      PRN
        9765
                  POOLE,PAM                  WHATLEY,EDWA      PRN
        6503
                  WARD,MICHAEL               LEES,JACK         QD
        8249
            EDWARDS,DONALD                   JEFFERSON,DO      PRN
        78650


End (1/29)>
```

Drug Items Purchased for a Specific Time Period

QUERY DESCRIPTION

Report Name: Drug Items Purchased for a Specific Time Period

Query Name:QPG_PURCHASE_REPORT

Selection Criteria:Beginning Receipt Date

Ending Receipt Date

Sort(s):Brand Name

Description:

This report contains purchasing information for a specific time period. The brand name, strength, and purchasing unit is listed in the first column. The vendor, purchase order number, order quantity, price, and extended price are columns on the report. Totals are given for each item and grand total is listed at the end of the report.

The query exhibits many SQL features. SET SHOW_PLAN is a function used for viewing the plan and the efficiency of the query. To calculate a new total for each item a variable was set up through the DECLARE Statement and then in the DETAIL BLOCK.

This query is also using a JOIN of two tables, the PP_PURCH_ORD_ITEMS table and the PP_PURCHASE_ORDERS table.

SAMPLE QUERY

```
  Query Name: QPG_PURCHASE_REPORT                Routine:
     Printed: 05/15/91 at 1:46 PM
 Description: Drug Items purchased for a Specific Time Period
   Last edit: 05/15/91 at 1:45 PM by DBA
Last compile: 05/15/91 at 11:38 AM

SQL Text
========
--This report lists drug items by acquisition cost and lists the
--vendors that supplied the items.


SET     SHOW_PLAN='YES'


DECLARE VARIABLE  :XTOTP NUMERIC(8,2)


READ          :XBPD DATE HEADING 'Enter Beginning Purchase Date'
READ          :XEPD DATE HEADING 'Enter Ending Purchase Date'


SELECT        NULL


FROM          PP_PURCH_ORD_ITEMS I,
              PP_PURCHASE_ORDERS O


WHERE         (RECEIPT_DATE BETWEEN :XBPD AND:XEPD) AND
              I.PURCH_ORDER_NBR=O.PURCH_ORDER_NBR


ORDER BY      BRAND_NAME_STRGTH


HEADER   WRITE  'Drug Items and Dollar Amounts' CENTER 80
         WRITE  'For '|:XBPD| ' through '|:XEPD  CENTER 80
         WRITE  'Printed On '|TODAY|' at '|NOW  CENTER 80


INITIAL  SET  :XTOTP = 0


DETAIL   SET  :XTOTP = :XTOTP + TOTAL_PRICE
         WRITE BRAND_NAME_STRGTH|' '|DOSAGE_FORM|' '|PURCHASE_UNIT
               CHANGED HEADING 'Drug  Name'  COLUMN  1,
               O.VENDOR_DESC CHANGED HEADING 'Vendor' COLUMN 3 LEFT 20,
               PURCH_ORDER_NBR CHANGED HEADING 'PO Number'  COLUMN 27,
```

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```
                    ORDER_QUANTITY HEADING 'Ord Qty' COLUMN 41,
                    ITEM_RECEIPT_PRICE HEADING 'Unit Price'  COLUMN 51,
                    TOTAL_PRICE HEADING 'Price' COLUMN 64


    BREAK AFTER 1
            WRITE '** Total for '|BRAND_NAME_STRGTH| ' is $'|:XTOTP COLUMN 5
            SKIP 2
            WRITE '' SKIP 2
            SET :XTOTP = 0


    FINAL   WRITE '*** Total for all drug items is $'|SUM(TOTAL_PRICE)
            SKIP 2
```

Figure 9.15 Drug Items Purchased for a Specific Time Period

```
                        Drug Items and Dollar Amounts
                        For 05/14/91 through 05/15/91
                        Printed On 05/15/91 at 3:55 PM

 Drug  Name
   Vendor                 PO Number   Ord Qty   Unit Price     Price
---------------------------------------------------------------------------
ASCRIPTIN TABLET U/D 250X2
   TEST VENDOR            1234568031       5         4.75     23.75

     ** Total for ASCRIPTIN is $23.75

ASPIRIN 125MG SUPPOSITORY BOX 12'S
   PARKER WHOLESALE       1234568049       2         0.66      1.32

     ** Total for ASPIRIN 125MG is $1.32

ASPIRIN 325 MG TABLET U/D 200'S
   TEST VENDOR              23456791      12         2.00     24.00

     ** Total for ASPIRIN 325 MG is $24.00

ASPIRIN 60MG SUPPOSITORY BOX 12'S
   EDWARDS PHARMACEUTIC    1234568047      5         1.15      5.75

     ** Total for ASPIRIN 60MG is $5.75

CECLOR 250MG CAPSULE U/D 100'S
   PARKER WHOLESALE       1234568049      10        84.11    841.10

     ** Total for CECLOR 250MG is $841.10

RUFEN 400MG TABLET 100'S
   EDWARDS PHARMACEUTIC    1234568048      5         6.80     34.00
   PARKER WHOLESALE       1234568049      10         5.67     56.70

     ** Total for RUFEN 400MG is $90.70

HYDROGEN PEROXIDE 3% SOLUTION BTL 480 ML'S
                          1234568276      10         0.62      6.24
                          1234568743      10         0.62      6.24

     ** Total for HYDROGEN PEROXIDE 3% IS $12.48

*** Total for all drug items is $6517.14
End (42/157)>
```

Active Orders with Items in Freezer

QUERY DESCRIPTION

Report Name: Active Orders with Items in Freezer

Query Name:QPG_ITEMS_IN_FREEZER

Selection Criteria:None

Sort(s):Formulary Code

DESCRIPTION:

This report lists active orders that contain items stored in the freezer. The "freezer" criteria comes from the free-form "Shelf/Bin" location field on the Floorstock Maintenance screen. The formulary code, brand name, strength of the drug, the patient name, order number, frequency, and administration times are fields included on the report.

The query demonstrates the use of defining a free-form field in the WHERE statement. In this query, 'FREEZER' is the text criteria defined in the Shelf/Bin location for each item that prints on the report.

SAMPLE QUERY

```
  Query Name: QPG_ITEMS_IN_FREEZER              Routine:
      Printed: 08/20/91 at 11:57 AM
 Description: Active Orders with Items in Freezer
    Last edit: 08/20/91 at 11:56 AM by DBA
Last compile: 08/16/91 at 2:43 PM


SQL Text
========
--This report lists active orders that contain items stored in the
--freezer.  The freezer criteria comes from the free-form "Shelf/Bin
--Location" field on the Floorstock Maintenance screen.


SELECT     FORMULARY_CODE CHANGED HEADING  '#' LEFT 4,
           BRAND_NAME|' '|STRENGTH CHANGED HEADING 'Name' COLUMN 6,
           PAT_NAME CHANGED HEADING 'Patient' LEFT 25 COLUMN 3,
           ORDER_NUMBER CHANGED HEADING 'Ord #' COLUMN 30,
           FREQUENCY CHANGED HEADING 'Freq' COLUMN 40 LEFT 6,
           ADMIN_TIMES CHANGED HEADING 'Admin Times' COLUMN 48 LEFT 30


FROM       PG_ACTIVE_ORDERS


WHERE      PG_FORM_USAGE_LINK@SHELF_BIN_LOC = 'FREEZER'


ORDER BY   FORMULARY_CODE


BREAK AT FORMULARY_CODE SKIP


HEADER     WRITE 'Frozen Drug Items in Active Orders' CENTER 80
           WRITE 'Printed On '|TODAY|' at '|NOW  CENTER 80
End>
```

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Figure 9.16 Active Orders with Items in Freezer

```
                        Frozen Drug Items in Active Orders
                        Printed On 08/20/91 at 11:59 AM

   #     Name
         Patient                    Ord #     Freq    Admin Times
   ----------------------------------------------------------------------------
   169   ANCEF 500 MG
         SMITH,ELLEN                  22      Q6H   0600am,1200pm,0600pm,1200am
         WILLIAMS,MARK                 4      Q6H   0600am,1200pm,0600pm,1200am

   1001  ANCEF 1 GM
         ANDERSON,JOHN                24      Q6H   0600am,1200pm,0600pm,1200am
         LACKEY,SUE                   10      Q6H   0600am,1200pm,0600pm,1200am
         MOHAR,RHONDA                  7      Q6H   0600am,1200pm,0600pm,1200am

   1010  CLAFORAN 1 GM
         SMITH,ELLEN                  21      Q4H   0200am,0600am,1000am,0200pm,0600pm,1000pm
         SMITH,JIM BOB                 2      Q6H   0400am,1000am,0400pm,1000pm

   1172  FORTAZ
         EDWARDS,MARTHA               10      Q8H   0700am,0300pm,1100pm
         JONES,LUVENE                  2      Q8H   0800am,0400pm,1200am
         NELSON,MARK                   3      Q8H   0700am,0300pm,1100pm
         SMITH,ANDY                   25      Q8H   0200am,1000am,0600pm
         SMITH,LUCY                    8      Q8H   0700am,0300pm,1100pm
         YOUNG,SUSAN                   1      Q8H   0700am,0300pm,1100pm

   2157  MEFOXIN 2 GM
         BAILEY,SUE                    1      Q6H   0200am,0800am,0200pm,0800pm

   4002  ZINACEF 750 MG
         MINES,BARBARA                26      Q8H   0800am,0400pm,1200am
         SHELDON,CHANCEY               9      Q8H   0800am,0400pm,1200am

   8372  ZINACEF 1.5 GM
         MORTON,LINDA                 23      Q8H   0800am,0400pm,1200am
         ROPES,PAUL                    5      Q8H   0800am,0400pm,1200am
   End (21/137)>
```

Compound Item Listing

QUERY DESCRIPTION

Report Name: Compound Item Listing

Query Name:QPG_COMPOUND_ITEMS

Selection Criteria: Facility

Sort(s): None

Description:

This report lists the items that are defined as compound in the STAR Pharmacy formulary. For each compound item, the report lists the item's formulary code and compound name. For items that are defined as *each* in the formulary, the item's dosage form is included in the item description. For items that are defined as *ml* or *gm* in the formulary, the item's package size and drug form are included in the item description. Below the compound item, the report lists each component item and the strength and volume of the item when used to manufacture the compound.

All information in this query comes from the PG_FORMULARY_CMPD and PG_FORMULARY tables defined for SQL.

A HEADER is used in this query to print a title for the report and also to print the date and time the report was run. The TODAY and NOW are SQL pseudo columns that are used to report current date and time.

SAMPLE QUERY

```
   Query Name: QPG_COMPOUND_ITEMS                        Routine:
       Printed: 10/19/92 at 10:58 AM
  Description: Compound Formulary Items and Their Components
Last compile: 10/12/92 at 10:30 AM

SQL Text
========
-- This query lists all items that are flagged as "compound" in the
-- formulary as well as each of the components items associated with the
-- compound item.


READ    :XFAC CHARACTER(1) HEADING 'Enter Facility Code'


SELECT
        FORMULARY_CODE CHANGED HEADING 'Code' LEFT 4,
        EXTRACT(PG_FORM_LINK@COMP_NAME,1,55)|' '|
           CASE
              WHEN PG_FORM_LINK@DRUG_FORM = 'EA'
                 THEN PG_FORM_LINK@DOSAGE_FORM
              ELSE
                 PG_FORM_LINK@PACKAGE_SIZE|' '|PG_FORM_LINK@DRUG_FORM
           END
        CHANGED HEADING 'Description' COLUMN 6,
        LPAD(COMP_FORM_CODE,6)
           |PG_FORM_LINK_COMP@CURRENT_BRAND_NAME
           HEADING 'Component item' LEFT COLUMN 6,
        COMP_STRENGTH HEADING 'Strength' COLUMN 45,
        COMP_VOLUME|' '|
           CASE
              WHEN PG_FORM_LINK_COMP@DRUG_FORM = 'EA'
                 THEN PG_FORM_LINK_COMP@DOSAGE_FORM
           END
           HEADING 'Volume' COLUMN 60


FROM
        PG_FORMULARY_CMPD


WHERE
        FAC= :XFAC AND
```

```
          PG_FORM_LINK@COMP_IND IS NOT NULL


HEADER   WRITE 'Compound Item Listing' CENTER 80
         WRITE 'For Facility '|:XFAC CENTER 80
         WRITE 'Printed On '|TODAY|' at '|NOW CENTER 80
End>
```

Figure 9.17 Compound Item Listing

```
                         Compound Item Listing
                            For Facility A
                     Printed On 10/19/92 at 11:16 AM

Code  Description
      Component item                        Strength      Volume
--------------------------------------------------------------------------------
2145  BROMPTON'S ELIXIR 480.00 ML
      1989  COCAINE HCL FLAKES              100 %         4 GM
      62    MORPHINE SULFATE                300 MG        10 TABLET SOL
2211  KAYNES CREAM OINTMENT 60.00 GM
      420   BLISTEX                                       60 GM
      1955  NEOMYCIN SULFATE                1500 MG       3 TABLET
      1852  HYDROCORTISONE                  60 MG         3 TABLET
2230  MOM/CASCARA SUSPENSION 25.00 ML
      909   AROMATIC CASCARA                              5 ML
      924   MILK OF MAGNESIA CONC                         20 ML
5566  TETRACAINE/ADRENALIN/COCAINE SOLUTION 10.00 ML
      958   TETRACAINE HCL                  .5 %          4.5 ML
      1083  ADRENALIN CHLORIDE              5 MG          5 ML
      1985  COCAINE HCL                     1755 MG       13 TABLET SOL
End (10/10)>
```

Chapter 10 - STAR RADIOLOGY

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Illustrations

INTRODUCTION

This is the STAR Radiology section of the *STAR Vista Reporting/SQL Reference Guide*. In the following pages, you can see the new and modified tables that STAR Vista Reporting uses in the STAR Radiology product.

This section also briefly discusses functions relative to STAR Radiology. Refer to the *KB_SQL Database Administrator's Guide* for details of creating and modifying tables and functions.

A few sample queries with their descriptions and results are included. Refer to the *KB_SQL Reference Guide* for information on building, modifying, and running queries.

VIEWS

A *view* is a *virtual table* whose information is defined by a user. Views provide major benefits including:

• Security

Users can be given access to the data through views, restricting access to sensitive information.

• *Query Simplicity*

A view can be created from several tables and be presented to the user as only one table (a *virtual table*).

• *User Simplicity*

Views can be tailored to a user's scope or access, defining his/her view of the data.

The EZQ Editor has a limitation of using one table at a time; therefore, views can offer a better variety of information. If your department is using the EQZ Editor more frequently than the SQL Editor, you may find it helpful to create more views. When the EZQ Editor asks for a table name to be entered, you can enter the name of a view for diversified reporting needs.

The McKesson database naming conventions for VIEWS are as follows:

Naming Conventions for Queries Creating VIEWS:

Q   _____   V_Description

| | |

| | |_____VIEW

| |

| |_____Product Letter: G=STAR FINANCIALS Accounts
| Payable

| H=STAR FINANCIALS Payroll/Personnel

| I=STAR FINANCIALS Materials Management

| J=STAR FINANCIALS General Ledger

| F=STAR FINANCIALS Patient Accounting

| A=STAR Allstar

| C=STAR Patient Care

| L=STAR Laboratory

| P=STAR Pharmacy

| X=STAR Radiology

|_____Query

EXAMPLE:QXV_RAD_CHECK_IN_INFO

Naming Conventions for VIEWS:

V_View Name

EXAMPLE:V_RAD_CHECK_IN_INFO

The following pages show sample VIEW descriptions and sample queries to create the VIEWS described. These views are examples of how to create a view. If changes are needed to a view, the SQL user needs to copy the query to another name using his or her hospital's naming convention. The VIEW name itself could be changed as well. This prevents the query and view from being overwritten with an application upgrade. For more information on the creation of VIEWS, please refer to the *KB_SQL Database Administrator's Guide* and the *KB_SQL Reference/User's Guide.*

V_ACT_TRK_AND_VISIT_INFO

SAMPLE VIEW DESCRIPTION

Query Name:QXV_ACT_TRK_AND_VISIT_INFO

View Name:V_ACT_TRK_AND_VISIT_INFO

NOTE: THIS VIEW IS ONLY APPLICABLE FOR FACILITIES WITH THE PATIENT-CARE AND RADIOLOGY APPLICATIONS RUNNING ON THE SAME CPU.

Description:

This view combines STAR-Patient Care patient visit information and STAR-Radiology activity tracking information to provide more tracking times.

This view demonstrates a cross-product join. The tables that have been joined are AG_MEDICAL and XC_ACT_TRACK.

Notes:

This view needs to be used in conjunction with a date index. It is recommended that a small date range be used as system performance is adversely affected when using a large date range.

The columns used in the SELECT statement when writing the query were restricted to patient visit information from AG_MEDICAL.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QXV_ACT_TRK_AND_VISIT_INFO          Routine:
        Printed: 08/03/91 at 11:20 AM
 Description: View for activity tracking and visit information
    Last edit: 06/21/91 at 2:17 PM by DBA


SQL Text

========

--  This query creates a view that combines CLINSTAR-Patient Care

--  admission and discharges dates and times with the CLINSTAR-Radiology

--  activity tracking information.


CREATE VIEW V_ACT_TRK_AND_VISIT_INFO AS


SELECT CHG_ON_DATE, CK_IN_DT, CK_IN_NBR, DPT, EXAM_CD, EXAM_NAME,
        EXAM_RM, EXAM_STP_DT, EXAM_STRT_DT, FILMS_PPD_DT, LR_INDICATOR,
        PAT_DPRT_DT, RAD, RAD_WKLD_PROD, RAD_WKLD_PROD_DATE,
        RAD_WKLD_PROD_ID, REQ_DT, RPT_REL_DT, SHIFT, TECH_WKLD_PROD,
        TECH_WKLD_PROD_DATE, TECH_WKLD_PROD_ID, TRANSC, TRANSC_END_TM,
        TRANSC_STRT_TM, TRANSC_WKLD_DATE, TRANSC_WKLD_ID,
        TRANSC_WKLD_PROD, ADM_DT, ADM_TM, DSCHRG_DT, DSCHRG_TM, FAC,
        PAT_ACCT_NBR, PAT_NAME, PAT_TYPE, INTN, AN


FROM    XC_ACT_TRACK A, AG_MEDICAL M


WHERE   A.INTN = M.INTN AND
        A.AN = M.AN
End>
```

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V_QUALITY_CONTROL_INFO

SAMPLE VIEW DESCRIPTION

Query Name:QXV_QUALITY_CONTROL_INFO

View Name:V_QUALITY_CONTROL_INFO

Description:

This view combines quality control equipment information with service log request information. The tables combined are XQ_EQ_INFO and XQ_SVC_LOG_REQ.

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SAMPLE QUERY TO CREATE VIEW

```
     Query Name: QXV_QUALITY_CONTROL_INFO              Routine:
         Printed: 08/03/91 at 11:20 AM
    Description: View to combine quality control tables
       Last edit: 06/21/91 at 2:20 PM by DBA


SQL Text
========
--  This query creates a view that combines the quality control
--  information with the service log request information.


CREATE VIEW V_QUALITY_CONTROL_INFO AS


SELECT EQUIP_CD,EQUIP_NAME, FAC_OR_DPT, RM,
          EQUIP_CAT_CD,EQUIP_CAT_NAME, EQUIP_INSTALL_DATE,
          MODEL_NBR,SERIAL_NBR,VENDOR,VENDOR_CD,
          WARRANTY_EXP_DATE ,DATE_REPORTED,HOURLY_RATE,
          HRS_PER_REPAIR,REPAIR_DATE ,REP_PERFORMED,REP_PROBLEM,
          REQUESTOR,TOT_LBR_AND_MAT,TOT_LBR_CHG
          ,TOT_MAT,WRK_PERFORMED


FROM   XQ_EQ_INFO A, XQ_SVC_LOG_REQ E


WHERE  A.EQUIP_CD = E.EQUIP_CD AND
       A.EQUIP_NAME = E.EQUIP_NAME AND
       A.FAC_OR_DPT = E.FAC_OR_DPT AND
       A.RM = E.RM
End>
```

V_RAD_CHECK_IN_INFO

SAMPLE VIEW DESCRIPTION

Query Name:QXV_RAD_CHECK_IN_INFO

View Name:V_RAD_CHECK_IN_INFO

Description:

This view combines the activity tracking and the check-in information tables. These tables contain most of the information needed for accessing patient and exam information. The tables combined in this query are XC_ACT_TRACK and XC_CK_IN_INFO.

Notes:

This view needs to be used in conjunction with a date index. It is recommended that a small date range be used as the system performance is adversely affected when using a large date range.

SAMPLE QUERY TO CREATE VIEW

```
   Query Name: QXV_RAD_CHECK_IN_INFO                Routine:
       Printed: 08/03/91 at 11:21 AM
  Description: View for Radiology check-in information
    Last edit: 06/21/91 at 2:21 PM by DBA


SQL Text

========

--  This query creates a view that combines all radiology exam check-in

--   information with the activity tracking information.


CREATE VIEW V_RAD_CHECK_IN_INFO AS


SELECT  CK_IN_NBR,DPT, EXAM_CD_KEY,CK_IN_DT_TM
         ,DICT_DT_TM,EXAM_RM ,EXAM_NAME,EXAM_STP_DT_TM
         ,EXAM_STRT_DT_TM ,FILMS_PPD_DT_TM
         ,INTN,LR_INDICATOR,PAT_ACCT_NBR,PAT_DPRT_DT_TM
         ,PAT_NAME,PHY_WKLD_ID, PHY_WKLD_PROD
         ,PHY_WKLD_PROD_DATE ,QC_COMPLETE_DT_TM
         ,RAD,RADS,RAD_WKLD_PROD,RAD_WKLD_PROD_DATE
         ,RAD_WKLD_PROD_ID,REQ_DT_TM, RPT_REL_DT_TM
         ,RPT_REL_RAD_CD ,SHIFT, TECH_WKLD_PROD
         ,TECH_WKLD_PROD_DATE,AN ,TECH_WKLD_PROD_ID
         ,TRANSC,TRANSC_EDIT_BY_ID,TRANSC_END_DT_TM
         ,TRANSC_ORIG_END_DT_TM ,TRANSC_ORIG_STRT_DT_T,
         ,TRANSC_RAD,TRANSC_STRT_DT_TM,TRANSC_WKLD_DATE
         ,TRANSC_WKLD_ID,TRANSC_WKLD_PROD
         ,USER_UPDATE_ID, USER_UPDATE_NAME
         ,ABN_FRQ_LIMIT,ABN_OVRD,ABN_SIGN_IND
         ,AFTER_CI_FLG, CCE_MOD_IND ,CK_IN_BY
         ,CK_IN_REQ_IDS   ,CONFLICT_CATEGORY_CD
         ,CONFLICT_CATEGORY_DESC, CONFLICT_HCPCS
         ,EXAMS_ORD,EXAM_COMP_DT_TM,EXAM_ORD_REAS
         ,EXAM_STATUS,EXT_ORD_NBR,EX_STAT_CD,FAC,HCPCS_CD
         ,HCPCS_OVRD, HIS_AN,INT_ORD_NBR,LOC, MED_NEC_IND
         ,ORD_DT_TM, ORD_LOC, ORD_PHY_CD
         ,ORD_PHY,ORD_PHY_ZIP_CD, PAT_TYPE, PORT, PRIORITY
         ,REQ_FOR_DT_TM, REQ_ID, REQ_NBR,REV_INFO
         ,SPEC_HAND_CD, STAT_ORD, TRANSPORT_CD, TRANSPORT_METHOD


FROM    XC_ACT_TRACK A, XC_CK_IN_INFO C


WHERE    A.CK_IN_NBR = C.CK_IN_NBR AND
         A.DPT = C.DPT AND
         A.EXAM_CD_KEY = C.EXAM_CD_KEY
End>
```

V_RAD_BILLING_INFO

SAMPLE VIEW DESCRIPTION

Query Name:QXV_RAD_BILLING_INFO_VIEW

View Name:V_RAD_BILLING_INFO

Description:

This query creates a view containing selected columns from AG_MEDICAL, AG_INSURANCE, AG_DEMOG, and XC_CK_IN_INFO using XC_CK_IN_INFO_DATE to limit the results to yesterday's check-ins.

This view can be used for Radiology Billing reports.

Notes:

The current VIEW is limited to yesterday's check-ins. This can be changed to include a longer time frame.

SAMPLE QUERY TO CREATE VIEW

```
  Query Name: QXV_RAD_BILLING_INFO_VIEW          Routine:
     Printed: 08/03/91 at 11:13 AM
 Description: View of Radiology billing info
   Last edit: 07/09/91 at 12:39 PM by DBA
Last compile: 07/05/91 at 3:54 PM

SQL Text
========


-- This query creates a VIEW of information most commonly requested
-- for Radiology Billing

CREATE VIEW  V_RAD_BILLING_INFO
(INTN
 ,AN
 ,CK_IN_NBR
 ,EXAM_CD
 ,EXAM_NAME
 ,ORD_PHY
 ,ORD_PHY_CD
 ,PAT_ACCT_NBR
 ,PAT_NAME
 ,ADM_DT
 ,DSCHRG_DT
 ,STATION
 ,MED_SERV
 ,PAT_BIRTHDATE
 ,PAT_SSN
 ,PAT_PHONE_NBR
 ,PAT_ADDRESS1
 ,PAT_ADDRESS2
 ,PAT_CITY
 ,PAT_STATE
 ,PAT_ZIP
 ,PAT_EMPL
 ,GUAR_NAME
 ,GUAR_SSN
 ,GUAR_PHONE
 ,GUAR_ADDRESS1
 ,GUAR_ADDRESS2
```

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```
                    ,GUAR_CITY
                    ,GUAR_STATE
                    ,GUAR_ZIP
                    ,COB1_CD
                    ,COB1_NM
                    ,COB1_ADDRESS1
                    ,COB1_ADDRESS2
                    ,COB1_CITY
                    ,COB1_STATE
                    ,COB1_ZIP
                    ,COB1_PHONE
                    ,COB1_INSURED_NM
                    ,COB1_INSURED_REL_CD
                    ,COB1_SEX
                    ,COB1_SSN
                    ,COB1_POLICY
                    ,COB1_GROUP
                    ,COB2_CD
                    ,COB2_NM
                    ,COB2_ADDRESS1
                    ,COB2_ADDRESS2
                    ,COB2_CITY
                    ,COB2_STATE
                    ,COB2_ZIP
                    ,COB2_PHONE
                    ,COB2_INSURED_NM
                    ,COB2_INSURED_REL_CD
                    ,COB2_SEX
                    ,COB2_SSN
                    ,COB2_POLICY
                    ,COB2_GROUP
                    ,COB3_CD
                    ,COB3_NM
                    ,COB3_ADDRESS1
                    ,COB3_ADDRESS2
                    ,COB3_CITY
                    ,COB3_STATE
                    ,COB3_ZIP
                    ,COB3_PHONE
                    ,COB3_INSURED_NM
                    ,COB3_INSURED_REL_CD
                    ,COB3_SEX
```

```
                    ,COB3_SSN

                    ,COB3_POLICY

                    ,COB3_GROUP

                    ,COB4_CD

                    ,COB4_NM

                    ,COB4_ADDRESS1

                    ,COB4_ADDRESS2

                    ,COB4_CITY

                    ,COB4_STATE

                    ,COB4_ZIP

                    ,COB4_PHONE

                    ,COB4_INSURED_NM

                    ,COB4_INSURED_REL_CD

                    ,COB4_SEX

                    ,COB4_SSN

                    ,COB4_POLICY

                    ,COB4_GROUP)


            AS


            SELECT    INTN
             ,AN
             ,CK_IN_NBR
             ,EXAM_CD
             ,EXAM_NAME
             ,ORD_PHY
             ,ORD_PHY_CD
             ,PAT_ACCT_NBR
             ,PAT_NAME
             ,MED_LINK@ADM_DT
             ,MED_LINK@DSCHRG_DT
             ,MED_LINK@STATION
             ,MED_LINK@SERVICE_CD
             ,DEMOG_LINK@BIRTHDATE
             ,DEMOG_LINK@PAT_SSN
             ,DEMOG_LINK@PHONE_NBR
             ,DEMOG_LINK@PAT_ADDR_1
             ,DEMOG_LINK@PAT_ADDR_2
             ,DEMOG_LINK@PAT_CITY
             ,DEMOG_LINK@PAT_STATE
             ,DEMOG_LINK@PAT_ZIP_CODE
             ,MED_LINK@PAT_EMPLOYER_LINK@EMP_NAME
```

```
,MED_LINK@GUARANTOR_LINK@GUAR_NAME
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_SSN
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PHONE_NBR
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_ADDR_1
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_ADDR_2
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_CITY
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_STATE
,MED_LINK@GUARANTOR_LINK@GUAR_DEMOG_LINK@PAT_ZIP_CODE
,MED_LINK@INS_COB_1_LINK@CARRIER_CODE
,MED_LINK@INS_COB_1_LINK@CARRIER_NAME
,MED_LINK@INS_COB_1_LINK@CARRIER_ADDRESS_1
,MED_LINK@INS_COB_1_LINK@CARRIER_ADDRESS_2
,MED_LINK@INS_COB_1_LINK@CARRIER_CITY
,MED_LINK@INS_COB_1_LINK@CARRIER_STATE
,MED_LINK@INS_COB_1_LINK@CARRIER_ZIPCODE
,MED_LINK@INS_COB_1_LINK@CARRIER_PHONE_NBR
,MED_LINK@INS_COB_1_LINK@INSURED_NAME
,MED_LINK@INS_COB_1_LINK@INSURED_RELAT_CODE
,MED_LINK@INS_COB_1_LINK@INSURED_SEX
,MED_LINK@INS_COB_1_LINK@INSURED_SSN
,MED_LINK@INS_COB_1_LINK@POLICY_NBR
,MED_LINK@INS_COB_1_LINK@GROUP_NBR
,MED_LINK@INS_COB_2_LINK@CARRIER_CODE
,MED_LINK@INS_COB_2_LINK@CARRIER_NAME
,MED_LINK@INS_COB_2_LINK@CARRIER_ADDRESS_1
,MED_LINK@INS_COB_2_LINK@CARRIER_ADDRESS_2
,MED_LINK@INS_COB_2_LINK@CARRIER_CITY
,MED_LINK@INS_COB_2_LINK@CARRIER_STATE
,MED_LINK@INS_COB_2_LINK@CARRIER_ZIPCODE
,MED_LINK@INS_COB_2_LINK@CARRIER_PHONE_NBR
,MED_LINK@INS_COB_2_LINK@INSURED_NAME
,MED_LINK@INS_COB_2_LINK@INSURED_RELAT_CODE
,MED_LINK@INS_COB_2_LINK@INSURED_SEX
,MED_LINK@INS_COB_2_LINK@INSURED_SSN
,MED_LINK@INS_COB_2_LINK@POLICY_NBR
,MED_LINK@INS_COB_2_LINK@GROUP_NBR
,MED_LINK@INS_COB_3_LINK@CARRIER_CODE
,MED_LINK@INS_COB_3_LINK@CARRIER_NAME
,MED_LINK@INS_COB_3_LINK@CARRIER_ADDRESS_1
,MED_LINK@INS_COB_3_LINK@CARRIER_ADDRESS_2
,MED_LINK@INS_COB_3_LINK@CARRIER_CITY
,MED_LINK@INS_COB_3_LINK@CARRIER_STATE
```

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```
            ,MED_LINK@INS_COB_3_LINK@CARRIER_ZIPCODE
            ,MED_LINK@INS_COB_3_LINK@CARRIER_PHONE_NBR
            ,MED_LINK@INS_COB_3_LINK@INSURED_NAME
            ,MED_LINK@INS_COB_3_LINK@INSURED_RELAT_CODE
            ,MED_LINK@INS_COB_3_LINK@INSURED_SEX
            ,MED_LINK@INS_COB_3_LINK@INSURED_SSN
            ,MED_LINK@INS_COB_3_LINK@POLICY_NBR
            ,MED_LINK@INS_COB_3_LINK@GROUP_NBR
            ,MED_LINK@INS_COB_4_LINK@CARRIER_CODE
            ,MED_LINK@INS_COB_4_LINK@CARRIER_NAME
            ,MED_LINK@INS_COB_4_LINK@CARRIER_ADDRESS_1
            ,MED_LINK@INS_COB_4_LINK@CARRIER_ADDRESS_2
            ,MED_LINK@INS_COB_4_LINK@CARRIER_CITY
            ,MED_LINK@INS_COB_4_LINK@CARRIER_STATE
            ,MED_LINK@INS_COB_4_LINK@CARRIER_ZIPCODE
            ,MED_LINK@INS_COB_4_LINK@CARRIER_PHONE_NBR
            ,MED_LINK@INS_COB_4_LINK@INSURED_NAME
            ,MED_LINK@INS_COB_4_LINK@INSURED_RELAT_CODE
            ,MED_LINK@INS_COB_4_LINK@INSURED_SEX
            ,MED_LINK@INS_COB_4_LINK@INSURED_SSN
            ,MED_LINK@INS_COB_4_LINK@POLICY_NBR
            ,MED_LINK@INS_COB_4_LINK@GROUP_NBR


    FROM    XC_CK_IN_INFO_DATE AS A
            ,XC_CK_IN_INFO AS B

    WHERE   A.CK_IN_DATE = (TODAY-1)
       AND  B.CK_IN_NBR = A.CK_IN_NBR
```

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SAMPLE QUERIES, DESCRIPTIONS, RESULTS

Activity Tracking Report Check-in to Exam Start Time

QUERY DESCRIPTION

Report Name: Activity Tracking Report

Check-in to Exam Start Time

Query Name:QXA_AT_CKIN_TO_EXAM_STRT

Selection Criteria: Date Range

Sort(s): Date

Description:

This report contains a list of the turnaround times for each radiology exam checked-in to the radiology department from exam check-in time to exam start time. The turnaround times display in hours and minutes. The report also includes a summary of the minimum, maximum and average turnaround times for the exams included in the report.

This sample query demonstrates accessing activity tracking information for a specified date range using the WHERE clause and demonstrates a DETAILED EVENT BLOCK for more flexibility in report formatting.

Notes:

Do not generate this query for a large date range. System performance is adversely affected if generated for a large time frame.

Only exams checked-in on the dates specified are included on the report. Any negative turnaround times indicate the exams that have an exam start time prior to the check-in time. They may be used to correct the activity tracking times that are entered incorrectly.

Negative turnaround times are not included in the totals for this report.

SAMPLE QUERY

```
  Query Name: QXA_AT_CKIN_TO_EXAM_STRT              Routine:
      Printed: 05/04/92 at 2:56 PM
 Description: Activity Tracking Turnaround Report by Date
    Last edit: 02/25/92 at 6:25 PM


SQL Text
========
--  Query to calculate the turnaround times for exams from check-in to
--  exam start time.

READ   :XSTRTDT DATE HEADING 'Enter Start Date'
READ   :XSTOPDT DATE HEADING 'Enter Stop Date'


DECLARE VARIABLE :XCNTR INTEGER(3),
                 :XMIN  INTEGER(8),
                 :XMAX  INTEGER(8),
                 :XAVG  NUMERIC(10,2),
                 :XWORK INTEGER(10),
                 :XWORKP CHARACTER(16),
                 :XTOT  INTEGER(12)


SELECT NULL


FROM   XC_ACT_TRACK A,XC_CK_IN_INFO_DATE D


WHERE  A.CK_IN_NBR = D.CK_IN_NBR AND
       A.DPT = D.DPT AND
       CK_IN_DT_TM BETWEEN :XSTRTDT AND :XSTOPDT


INITIAL
       SET :XCNTR = 0
       SET :XMIN = 99999999
       SET :XMAX = 0
       SET :XTOT = 0


DETAIL
       -- calculate turnaround time and increment counter
       SET :XWORK = (EXAM_STRT_DT - CK_IN_DT)
       SET :XCNTR = :XCNTR + 1
       -- set up print string
```

```
        SET :XWORKP = ABSINT(:XWORK)\60|' hrs '|ABSINT(:XWORK)#60|' min'
        -- if turnaround < 0, prefix with minus sign
        IF :XWORK < 0 SET :XWORKP = '-' | :XWORKP ENDIF
        WRITE :XCNTR | '.' RIGHT 4 SKIP 2 HEADING '',
        CK_IN_NBR LEFT 10 HEADING 'CI #',
        PAT_NAME HEADING 'Patient Name' LEFT 25 COLUMN 17,
        CK_IN_DT_TM HEADING 'Exam Ck-In Time' COLUMN 45,
        CASE WHEN EXAM_STRT_DT_TM IS NOT NULL THEN :XWORKP
                            ELSE 'N/A' END HEADING 'Turnaround Time',
        EXAM_NAME HEADING 'Exam Name' LEFT 25 COLUMN 17,
        EXAM_STRT_DT_TM DEFAULT 'N/A' HEADING 'Exam Start Time' COLUMN 45
        IF :XWORK BETWEEN 0 AND :XMIN
          SET :XMIN = :XWORK, :XCN1 = CK_IN_NBR
        ENDIF
        IF :XWORK > :XMAX
          SET :XMAX = :XWORK, :XCN2 = CK_IN_NBR
        ENDIF
        IF :XWORK >= 0
          SET :XTOT = :XTOT + :XWORK
        ENDIF
HEADER
        WRITE 'Activity Tracking Report' CENTER 80
        WRITE 'Exam Check-In to Exam Start Time' CENTER 80
        WRITE 'Printed on ' | TODAY | ' at ' | NOW CENTER 80


FINAL
        IF :XCNTR > 0
        SET :XAVG = :XTOT/:XCNTR
        WRITE 'Minimum Turnaround Time:  '|(:XMIN\60)|' hrs '|(:XMIN#60)|
        ' min'|'    CI# '|:XCN1 SKIP 2
        WRITE 'Maximum Turnaround Time:  '|(:XMAX\60)|' hrs '|(:XMAX#60)|
        ' min'|'    CI# '|:XCN2 SKIP
        WRITE 'Average Turnaround Time:  '|(:XAVG\60)|' hrs '|
        (ROUND(:XAVG#60))|' min' SKIP
        WRITE 'End of Report' CENTER 80 SKIP 2
        ENDIF


End>
```

Figure 10.1 Activity Tracking Report Check-in to Exam Start Time

```
                      Activity Tracking Report
                   Exam Check-In to Exam Start Time
                    Printed on 05/17/91 at 4:14 PM

        CI #        Patient Name            Exam Ck-In Time  Turnaround Time
                                            Exam Start Time
     --------------------------------------------------------------------------
     1.  72         HARRISON,JOHN P         04/16/91 1926    N/A
                                            N/A

     2.  114        HARRISON,JOHN P         04/16/91 1927    0 hrs 1 min
                                            04/16/91 1926

     3.  115        WILLIAMS,EUGENE         04/18/91 1131    N/A
                                            N/A

     4.  116        AYERS,SONIA             04/26/91 0901    -2 hrs 34 min
                                            04/16/91 0927

     5.  117        SMITH,JOHN ADAM         04/26/91 0902    0 hrs 38 min
                                            04/26/91 0940

     6.  117        SMITH,JOHN ADAM         04/26/91 0902    0 hrs 38 min
                                            04/26/91 0940

     7.  118        SMITH,JOHN ADAM         04/26/91 0904    0 hrs 35 min
                                            04/26/91 0939

     8.  119        KINGSLEY,JOSEPH         05/07/91 1431    0 hrs 22 min
                                            05/07/91 1453

     9.  119        KINGSLEY,JOSEPH         05/07/91 1431    N/A
                                            N/A

    10.  119        KINGSLEY,JOSEPH         05/07/91 1431    N/A
                                            N/A

Minimum Turnaround Time:  0 hrs 22 min    CI# 119
Maximum Turnaround Time:  0 hrs 38 min    CI# 117
Average Turnaround Time:  0 hrs 13.00 min

                              End of Report
End (10/17)>
```

Exam Count by Patient Type and Shift per Section

QUERY DESCRIPTION

Report Name: Exam Count by Patient Type and Shift per Section

Query Name: QXA_EXAM_COUNT_BY_SECT

Selection Criteria: Date Range

Sort(s):   Section

Patient Type

Description:

This report contains a list of all radiology exams performed per patient type and shift for each radiology section. The report includes the total per exam, shift, patient type, and section.

This sample query demonstrates accessing radiology check-ins for a particular date range using the WHERE statement and demonstrates using BREAK AFTER for totalling columns. The DETAILED EVENT BLOCK is used for more flexible report formatting.

Notes:

This query contains only films that have been flagged as "created" in the Film Room. Do not compile this query for a large date range. System performance is adversely affected if a large date range is used.

SAMPLE QUERY

```
  Query Name: QXA_EXAM_COUNT_BY_SECT          Routine:
      Printed: 04/26/91 at 1:11 PM
 Description: QXA EXAM COUNT BY SECT
   Last edit: 04/16/91 at 7:20 PM by DBA
Last compile: 04/16/91 at 7:22 PM

SQL Text
DECLARE VARIABLE :XPATCTR INTEGER(3),
                 :XSECTCTR INTEGER(3),
                 :XTOTCTR INTEGER(3)


READ :XSTRTDT DATE HEADING 'Enter Start Date'
READ :XSTOPDT DATE HEADING 'Enter Stop Date'


SELECT  NULL


FROM    XC_CK_IN_INFO C,XF_FILMS_CRTD F,XC_ACT_TRACK A


WHERE   CK_IN_DT BETWEEN :XSTRTDT AND :XSTOPDT AND
        --C.DPT = F.DPT AND
        C.FAC = F.FAC AND
        C.CK_IN_NBR = F.CK_IN_NBR AND
        C.EXAM_CD_KEY = F.EXAM_CD_KEY AND
        C.DPT = A.DPT AND
        C.CK_IN_NBR = A.CK_IN_NBR AND
        C.EXAM_CD_KEY = A.EXAM_CD_KEY AND
        C.AN = A.AN AND
        C.INTN = A.INTN


ORDER BY
        SHIFT,F.SECT_CD, C.PAT_TYPE


GROUP BY EXAM_NAME


HEADER  WRITE 'Exam Count Report by Section' CENTER 80
        WRITE 'Printed on ' | TODAY | ' at ' | NOW CENTER 80


INITIAL SET :XEXAMCTR = 0,
            :XPATCTR = 0,
            :XSECTCTR = 0,
            :XTOTCTR = 0
```

```
DETAIL  SET :XTOTCTR = :XTOTCTR + COUNT(EXAM_NAME),
             :XPATCTR = :XPATCTR + COUNT(EXAM_NAME),
             :XSECTCTR = :XSECTCTR + COUNT(EXAM_NAME)
        WRITE SECT_CD HEADING 'Section' LEFT 20 COLUMN 1 SKIP 2 CHANGED
        DEFAULT 'N/A',
        SHIFT HEADING 'Shift' LEFT 10 COLUMN 27 CHANGED,
        PAT_TYPE HEADING 'Patient Type' LEFT 13 COLUMN 3 SKIP CHANGED,
        EXAM_NAME HEADING 'Exam Name' LEFT 25 COLUMN 22,
        COUNT(EXAM_NAME) HEADING 'Total' LEFT 6 COLUMN 55


BREAK AFTER 2
        WRITE 'Total for ' | SECT_CD | '= ' | :XSECTCTR  COLUMN  1  SKIP
        SET :XSECTCTR = 0
        WRITE LPAD(NULL,80,'_') SKIP

BREAK AFTER 3
       WRITE 'Total for ' | PAT_TYPE | '= ' | :XPATCTR COLUMN 1 SKIP 2
       SET :XPATCTR = 0



FINAL
       WRITE 'Total Exams= ' | :XTOTCTR COLUMN 1 SKIP 2
       WRITE 'End of Report' CENTER 80 SKIP 2
End>
```

Figure 10.2 Exam Count by Patient Type and Shift per Section

```
                         Exam Count Report by Section
                         Printed on 04/23/91 at 8:37 AM

 Section                    Shift
   Patient Type           Exam Name                        Total
------------------------------------------------------------------------------
 Computed Tomography        Day
   E/R                    CT-CHEST WITH OBLIQUES             1

 Total for E/R = 1

   I/P                    CT-CHEST                           7

                         CT-CHEST FOR RIBS                  1

 Total for I/P = 8
 Total for Computed Tomography = 9
_____
 Fluoroscopy & IVP         Day
   I/P                    UPPER GI                           1

 Total for I/P = 1

   O/P                    COLON WITH AIR CONTRAST            2

 Total for O/P = 2
 Total for Fluoroscopy & IVP = 3
_____
 Nuclear Medicine          Day
   I/P                    NM RENOGRAM                        1

 Total for I/P = 1
 Total for Nuclear Medicine = 1
_____
 Routine Diagnostic        Day
   E/R                    SINUSES                            2

                         SKULL                              1

 Total for E/R = 3
 Total for Routine Diagnostic = 3


_____
 Total Exams = 16

                               End of Report
```

Physician Utilization Report by Patient ZIP Code

QUERY DESCRIPTION

Report Name: Physician Utilization Report by Patient ZIP Code

Query Name:QXA_PHY_UTIL_BY_PAT_ZIP_CD

Selection Criteria: Date Range

Sort(s): Patient Zip Code

Description:

This report contains a list of the ordering physicians for all radiology exams within a certain date range. The report sorts the data by patient Zip code to indicate in which areas the patients are located that are utilizing radiology services and what physicians the patients are using. This report could be used to monitor which areas marketing of radiology services may impact.

This sample query demonstrates the use of the ORDER BY command and gives a different perspective on the uses of the data stored by the system. A DETAILED EVENT BLOCK was used for greater flexibility in formatting the report.

Notes:

Do not generate this query for a large date range. System performance is adversely affected if generated for a large time frame.

SAMPLE QUERY

```
  Query Name: QXA_PHY_UTIL_BY_PAT_ZIP_CD        Routine:
      Printed: 05/02/91 at 9:49 AM
  Description: qxa phy util by pat zip cd
    Last edit: 05/01/91 at 2:23 PM by DBA
Last compile: 05/01/91 at 2:58 PM
```

SQL Text

```
READ :XSTRTDT DATE HEADING 'Enter Start Date'
READ :XSTOPDT DATE HEADING 'Enter Stop Date'


SELECT NULL


FROM    XC_CK_IN_INFO C, XC_CK_IN_INFO_DATE D


WHERE   CK_IN_DATE BETWEEN :XSTRTDT AND :XSTOPDT AND
        C.DPT = D.DPT AND
        C.CK_IN_NBR = D.CK_IN_NBR


ORDER BY DEMOG_LINK@PAT_ZIP_CODE,ORD_PHY


DETAIL
WRITE DEMOG_LINK@PAT_ZIP_CODE HEADING 'Zip Code' LEFT SKIP 2 CHANGED,
        ORD_PHY HEADING 'Physician' COLUMN 10 CHANGED,
        DEMOG_LINK@PAT_NAME HEADING 'Patient Name' COLUMN 10 SKIP CHANGED,
        EXAM_NAME HEADING 'Exam Name' COLUMN 40


HEADER  WRITE 'General Hospital' CENTER 80
        WRITE 'Physician Utilization Report by Patient Zip Code' CENTER 80
        WRITE 'Printed on '|TODAY|' at '|NOW CENTER 80


FINAL   WRITE 'Total Exams - ' | COUNT(* BY 0) SKIP 2
        WRITE 'End of Report' CENTER 80 SKIP 2
End>
```

Figure 10.3 Physician Utilization Report by Patient ZIP Code

```
                              General Hospital
                   Physician Utilization Report by Patient Zip Code
                         Printed on 05/02/91 at 9:50 AM

Zip Code  Physician
          Patient Name                      Exam Name
----------------------------------------------------------------------------
30303     BODIE,U HOYT
          HORST,SUSAN D                     ABDOMEN FLAT KUB

30309     MARTIN,DWIGHT L
          HOLMES,KAREN                      CHEST

          NABELL,LISLE M
          CRAMER,JANE                       ABDOMEN FLAT & UPRIGHT

30346     LEES,JOSEPH
          SMITH,JOHN                        CT ABDOMEN W CONTRAST MEDIA

30422     ADELL,FRANK C
          FOX,ANN                           ARTERIOGRAM-RENAL

Total Exams - 5


                              End of Report
End (15/48)>
```

Physician Utilization Report by Physician ZIP Code

QUERY DESCRIPTION

Report Name: Physician Utilization Report by Phys Zip Code

Query Name:QXA_PHYS_UTIL_BY_ZIP_CD

Selection Criteria: Date Range

Sort(s): Physician Zip Code

Description:

This report contains a list of the ordering Physicians for all radiology exams within a certain date range. The report groups the physician by their office ZIP Code to indicate from which areas physicians are utilizing radiology services.

This sample query demonstrates using the SELECT statement to format the report. It also demonstrates the use of the ORDER BY command.

Notes:

Do not generate this query for a large date range. System performance is adversely affected if generated for a large time frame.

SAMPLE QUERY

```
   Query Name: QXA_PHYS_UTIL_BY_ZIP_CD         Routine:
        Printed: 05/02/91 at 9:47 AM
  Description: Physician Utilization by Ordering Physician ZIP Code
     Last edit: 05/01/91 at 12:06 PM by DBA
Last compile: 05/01/91 at 12:11 PM
```

SQL Text

```
READ :XSTRTDT DATE HEADING 'Enter Start Date'
READ :XSTOPDT DATE HEADING 'Enter Stop Date'


SELECT ORD_PHY_ZIP_CD HEADING 'ZIP Code' CHANGED LEFT 10 COLUMN 1 SKIP,
       ORD_PHY HEADING 'Ordering Physician' CHANGED LEFT 25 COLUMN 5


SKIP,
       PAT_NAME HEADING 'Patient Name' LEFT 25 COLUMN 35 SKIP,
       CK_IN_DATE HEADING 'Check-in Date' COLUMN 65,
       EXAM_NAME HEADING 'Exam Name' COLUMN 35,
       CK_IN_NBR HEADING 'Check-in #' LEFT 10 COLUMN 65


FROM XC_CK_IN_INFO C, XC_CK_IN_INFO_DATE D


WHERE D.CK_IN_DATE BETWEEN :XSTRTDT AND :XSTOPDT AND
      C.DPT = D.DPT AND
      C.CK_IN_NBR = D.CK_IN_NBR


ORDER BY ORD_PHY_ZIP_CD, ORD_PHY


HEADER WRITE 'Physician Utilization Report by ZIP Code' CENTER 80
       WRITE 'Printed on ' | TODAY | ' at ' | NOW CENTER 80


FINAL  WRITE 'Total number of exams - ' | COUNT(* BY 0)  SKIP 2
       WRITE 'End of Report' SKIP 2 CENTER 80


End>
```

Figure 10.4 Physician Utilization Report by Physician ZIP Code

```
                    Physician Utilization Report by ZIP Code
                        Printed on 05/02/91 at 9:48 AM

 ZIP Code
    Ordering Physician
                                Patient Name              Check-in Date
                                Exam Name                 Check-in #
--------------------------------------------------------------------------------
 30309
    LEES,JOHN
                                SMITH,JOHN                04/22/91
                                CT ABDOMEN W CONTRAST MEDIA   242
 30346
    ADELL,FRANK C
                                FOX,SALLY                 04/29/91
                                ARTERIOGRAM-RENAL         217

    BODIE,U HOYT
                                HORST,KATHY               04/23/91
                                ABDOMEN FLAT KUB          249

    MARTIN,DWIGHT L
                                COMER,KAREN               04/26/91
                                CHEST                     253

    NABELL,LISLE M
                                CRAMER,ANN                04/26/91
                                ABDOMEN FLAT & UPRIGHT    254

Total number of exams - 5


                            End of Report
End (15/33)>
```

Activity Tracking Report Exam Start to Report Release Time

QUERY DESCRIPTION

Report Name: Activity Tracking Report

Exam Start to Report Release Time

Query Name:QXA_AT_EXAM_STRT_TO_RPT_REL

Selection Criteria: Date Range

Sort(s): Check-in Number

Description:

This report contains a list of the turnaround times for each radiology exam checked-in to the radiology department from exam start time to report release time. The report also includes a summary of the minimum, maximum and average turnaround times for the exams with valid times included in the report. The turnaround times display in hours and minutes.

This sample query demonstrates accessing activity tracking information for specified date ranges using the WHERE clause and uses a DETAILED EVENT BLOCK for more flexibility in report formatting.

Notes:

Do not generate this query for a large date range. System performance is adversely affected if generated for a large time frame.

Only exams checked-in on the dates specified are included on the report. Any negative turnaround times indicate the exams that have a report release time prior to the exam start time. They may be used to correct the activity tracking times that are entered incorrectly.

Negative turnaround times are not included in the totals for this report.

SAMPLE QUERY

```
  Query Name: QXA_AT_EXAM_STRT_TO_REP_REL        Routine:
     Printed: 05/04/92 at 2:57 PM
 Description: Turnaround Time Rpt for Exam Strt to Rpt Release
   Last edit: 02/25/92 at 6:25 PM


SQL Text
========
--  Query to calculate the turnaround times for exams from check-in
--  to exam start time.


READ    :XSTRTDT DATE HEADING 'Enter Start Date'
READ    :XSTOPDT DATE HEADING 'Enter Stop Date'


DECLARE VARIABLE :XCNTR INTEGER(3),
                 :XMIN  INTEGER(8),
                 :XMAX  INTEGER(8),
                 :XAVG  NUMERIC(10,2),
                 :XWORK INTEGER(10),
                 :XTOT  INTEGER(12)


SELECT  NULL


FROM    XC_ACT_TRACK A,XC_CK_IN_INFO_DATE D


WHERE   A.DPT = D.DPT AND
        A.CK_IN_NBR = D.CK_IN_NBR AND
        CK_IN_DT_TM BETWEEN :XSTRTDT AND :XSTOPDT
        AND EXAM_STRT_DT_TM IS NOT NULL


INITIAL
        SET :XCNTR = 0
        SET :XMIN = 99999999
        SET :XMAX = 0
        SET :XTOT = 0


DETAIL
        SET :XCNTR = :XCNTR + 1
        SET :XWORK = (RPT_REL_DT - EXAM_STRT_DT)
        WRITE :XCNTR │ '.' RIGHT 4 SKIP 2 HEADING '',
        CK_IN_NBR LEFT 10 HEADING 'CI #',
```

```
        PAT_NAME HEADING 'Patient Name',
        EXAM_STRT_DT_TM HEADING 'Exam Start Time' DEFAULT 'N/A',
        CASE WHEN (RPT_REL_DT_TM IS NULL) OR (EXAM_STRT_DT_TM IS
        NULL) THEN
        'N/A' ELSE :XWORK\60|'  hrs  '|:XWORK#60|' min' END HEADING
        'Turnaround  Time' COLUMN 63,
        RPT_REL_DT_TM DEFAULT 'N/A' HEADING 'Rpt Release Time'
        COLUMN 45
        IF :XWORK BETWEEN 0 AND :XMIN
          SET :XMIN = :XWORK, :XCN1 = CK_IN_NBR
        ENDIF
        IF :XWORK > :XMAX
          SET :XMAX = :XWORK, :XCN2 = CK_IN_NBR
        ENDIF
        IF :XWORK >= 0
          SET :XTOT = :XTOT + :XWORK
        ENDIF


HEADER
        WRITE 'Activity Tracking Report' CENTER 80
        WRITE 'Exam Start Time to Report Release Time' CENTER 80
        WRITE 'Printed on ' | TODAY | ' at ' | NOW CENTER 80


FINAL   IF :XCNTR > 0
        SET :XAVG = :XTOT/:XCNTR
        WRITE 'Minimum Turnaround Time:  '|(:XMIN\60)|' hrs
              '|(:XMIN#60)|
              ' min'|'    CI# '|:XCN1 SKIP 2
        WRITE 'Maximum Turnaround Time:  '|(:XMAX\60)|' hrs
              '|(:XMAX#60)|
              ' min'|'    CI# '|:XCN2 SKIP
        WRITE 'Average Turnaround Time:  '|(:XAVG\60)|' hrs '|
              (ROUND(:XAVG#60))|' min' SKIP
        WRITE 'End of Report' CENTER 80 SKIP 2
        ENDIF

    End>
```

Figure 10.5 Activity Tracking Report Exam Start to Report Release Time

```
                        Activity Tracking Report
                    Exam Start Time to Report Release Time
                       Printed on 05/02/91 at 11:45 AM

        CI #          Patient Name              Exam Start Time   Turnaround Time
                                                Rpt Release Time
    --------------------------------------------------------------------------
    1.  208           HORST,SUSAN D             04/02/91 0856     0  hrs  8 min
                                                04/02/91 0904

    2.  209           HORST,SUSAN D             04/02/91 0855     0  hrs  18 min
                                                04/02/91 0913

    3.  210           HARRISON,JOE E            04/02/91 0852     0  hrs  31 min
                                                04/02/91 0923

    4.  211           SMITH,JOHN                04/02/91 0856     0  hrs  27 min
                                                04/02/91 0923

Minimum Turnaround Time:  0 hrs 8 min    CI# 208
Maximum Turnaround Time:  0 hrs 31 min    CI# 210
Average Turnaround Time:  0 hrs 21.00 min

                              End of Report
End (4/8)>
```

Form Letter

QUERY DESCRIPTION

Report Name: Form Letter

Query Name: QXF_FORM_LETTER

Selection Criteria: Date Range or Check-in Number Range

Sort(s): Patient Name

Description:

This query generates individual form letters to notify patients that have been flagged with a "positive" exam to schedule a follow-up radiology procedure. The report could be used as a QA monitor to evaluate the number of positive results for particular exams.

This sample query demonstrates accessing radiology results for a specified date range using the WHERE statement and searching for a particular result. The DETAILED EVENT BLOCK is used to write the letter and certain columns are utilized to insert the patient's name, exam name and the date the exam was performed.

Notes:

Do not generate this query for a large date range because it is very system intensive. The query checks each result for every check-in for the time period defined for a match. System performance is adversely affected if generated for a large date range.

To demonstrate the use of fonts if your facility has access to a laser printer, the query QXF_FORM_LETTER_ITALIC is also available for use.

SAMPLE QUERY

```
  Query Name: QXF_FORM_LETTER                   Routine:
      Printed: 04/26/91 at 1:19 PM
 Description: FORM LETTER
   Last edit: 04/16/91 at 7:28 PM by DBA
Last compile: 04/16/91 at 7:29 PM

SQL Text
--  Query to set up a basic form letter for recalling patients for
--  exams.


SET DISPLAY_HEADING='NO',DISPLAY_PAGE = 'NO',DISPLAY_LINE = 'NO'


READ    :XSTRTDT DATE HEADING 'Enter Start Date'
READ    :XSTOPDT DATE HEADING 'Enter Stop Date'


SELECT  NULL


FROM    XC_CK_IN_RES R, XC_CK_IN_INFO I, XC_CK_IN_INFO_DATE D


--  The result value for the "comment" result is used to define which
--  check-ins will be included on this report.  In this query, the
--  comment field must have an entry of "POS" meaning positive to be
--  eligible for a letter.


WHERE   R.CK_IN_NBR = D.CK_IN_NBR AND
        R.DPT = D.DPT AND
        R.DPT = I.DPT AND
        R.CK_IN_NBR = I.CK_IN_NBR AND
        R.EXAM_CD_KEY = I.EXAM_CD_KEY AND
        R.RES_NAME = 'Comment' AND
        UPPER(R.RES_VAL) = 'POS' AND
        D.CK_IN_DATE BETWEEN :XSTRTDT AND :XSTOPDT
HEADER  WRITE NULL
DETAIL  PAGE
        WRITE TODAY COLUMN 45 SKIP 6 HEADING ''
        WRITE 'Dear ' | PIECE(PAT_NAME,',',2) | ' ' |
        PIECE(PAT_NAME,',',1)
        | ',' SKIP 2 HEADING ''
        WRITE '    Our files indicate that you should make an'|
        ' appointment to have a follow-up' SKIP 2 HEADING ''
```

```
            WRITE 'examination of your previous ' | EXTRACT
            (EXAM_NAME,1,25) |
            ' exam, performed on ' | PIECE(CK_IN_DT,' ',1) |  '.' SKIP
            HEADING  ''
            WRITE '    Please contact our department at your earliest '|
            'convenience to schedule the' SKIP 2 HEADING ''
            WRITE 'appointment.  We will be happy to assist you in any way.'
            SKIP HEADING ''
            WRITE 'Thank you' COLUMN 45 SKIP 2 HEADING ''
            WRITE 'General Hospital' COLUMN 45 SKIP 2 HEADING ''
            WRITE 'Department of Radiology' COLUMN 45 SKIP HEADING ''
FINAL   PAGE
End>
```

Figure 10.6 Form Letter

```
                                        04/23/91

Dear HOLLY D HOLMES,

     Our files indicate that you should make an appointment to have a follow-up
examination of your previous CHEST exam, performed on 03/06/91.

     Please contact our department at your earliest convenience to schedule the
appointment.  We will be happy to assist you in any way.

                                        Thank you

                                        General Hospital
                                        Department of Radiology
```

Form Letter Italic

QUERY DESCRIPTION

Report Name: Form Letter Italic

Query Name:QXF_FORM_LETTER_ITALIC

Selection Criteria: Date Range

Sort(s): Patient Name

Description:

This query generates individual form letters to notify patients that have been flagged with a "positive" exam to schedule a follow-up radiology procedure. The report could be used as a QA monitor to evaluate the number of positive results for particular exams.

This sample query demonstrates accessing radiology results for a specified date range using the WHERE statement and searching for a particular result. The DETAILED EVENT BLOCK is used to write the letter and certain columns are utilized to insert the patient's name, exam name and the date the exam was performed.

This query demonstrates the use of different fonts.

Notes:

Do not generate this query for a large date range because it is very system intensive. The query checks each result for every check-in for the time period defined for a match. System performance is adversely affected if generated for a large date range.

SAMPLE QUERY

```
   Query Name: QXF_FORM_LETTER_ITALIC            Routine:
       Printed: 05/14/91 at 3:23 PM
  Description: Form Letter using the Italic Fonts
     Last edit: 05/14/91 at 1:48 PM by DBA
Last compile: 05/14/91 at 1:52 PM


SQL Text
========
--  Query to set up a basic form letter for recalling patients for
--  exams.


SET DISPLAY_HEADING='NO',DISPLAY_PAGE = 'NO',DISPLAY_LINE = 'NO'


READ    :XSTRTDT DATE HEADING 'Enter Start Date'
READ    :XSTOPDT DATE HEADING 'Enter Stop Date'


SELECT  NULL


FROM    XC_CK_IN_RES R, XC_CK_IN_INFO I, XC_CK_IN_INFO_DATE D


--  The result value for the "comment" result is used to define which
--  check-ins will be included on this report.  In this query, the
--  comment field must have an entry of "POS" meaning positive to be
--  eligible for a letter.


WHERE   R.CK_IN_NBR = D.CK_IN_NBR AND
        R.DPT = D.DPT AND
        R.DPT = I.DPT AND
        R.CK_IN_NBR = I.CK_IN_NBR AND
        R.EXAM_CD_KEY = I.EXAM_CD_KEY AND
        R.RES_NAME = 'Comment' AND
        UPPER(R.RES_VAL) = 'POS' AND
        D.CK_IN_DATE BETWEEN :XSTRTDT AND :XSTOPDT


-- The following variables are set up to change the font in the form
-- letter.  :XFONT3 is a normal italic font and is used in printing the
-- body of the letter.  :XFONT4 is an italic bold font and is used to
-- print the patient name, exam name, and last exam date.  :XRES is
-- always used in the final statement to "RESET" to the default font.
-- Any line modification like this should be used in a WRITE statement.
```

```
        INITIAL SET :XFONT3 = '!R! FONT 3; SCPI 11; EXIT;',
                    :XFONT4 = '!R! FONT 40; SCPI 11; EXIT;',
                    :XRES = '!R! RES; EXIT;'


HEADER   WRITE NULL

DETAIL   PAGE
             WRITE :XFONT3
             WRITE TODAY COLUMN 45 SKIP 6 HEADING ''
             WRITE 'Dear ' | CHR(:XFONT4) | PIECE(PAT_NAME,',',2) | ' ' |
             PIECE(PAT_NAME,',',1) | ',' SKIP 2 HEADING ''
             WRITE  :XFONT3,'     Our files indicate that you should make an' |
             ' appointment to have a follow-up' SKIP 2 HEADING ''
            WRITE 'examination of your previous ' | CHR(:XFONT4) |
             EXTRACT(EXAM_NAME,1,25) | :XFONT3 | ' exam, performed on ' |
             CHR(:XFONT4)|PIECE(CK_IN_DT,' ',1)  | '.' SKIP HEADING  ''
             WRITE :XFONT3 | '     Please contact our department at your' |
             ' earliest convenience to schedule the' SKIP 2 HEADING ''
             WRITE 'appointment.  We will be happy to assist you in any way.'
             SKIP HEADING ''
             WRITE 'Thank you' COLUMN 45 SKIP 2 HEADING ''
             WRITE 'General Hospital' COLUMN 45 SKIP 2 HEADING ''
             WRITE 'Department of Radiology' COLUMN 45 SKIP HEADING ''

FINAL    PAGE
             WRITE :XRES
End>
```

Figure 10.7 Form Letter Italic

```
                                              04/23/91

Dear HOLLY D HOLMES,

     Our files indicate that you should make an appointment to have a follow-up
examination of your previous CHEST exam, performed on 03/06/91.

     Please contact our department at your earliest convenience to schedule the
appointment.  We will be happy to assist you in any way.

                                        Thank you

                                        General Hospital
                                        Department of Radiology
```

Nonprocedural Charge Report by Patient and Exam

QUERY DESCRIPTION

Report Name: Nonprocedural Charge Report by Patient and Exam

Query Name:QXOP_NPC_RPT_BY_PAT_AND_EX

Selection Criteria: Date Range

Sort(s): Patient Name

Description:

This report contains a list of non-procedural charges incurred during radiology procedures. The report alphabetically groups the patients by name. This is a different version of the non-procedural charge report that groups the charges by account number. The report also lists the exam that the non-procedural charges are associated with and total the number of charges for the date range entered.

This sample query demonstrates the SELECT statement for formatting the report.

Notes:

Do not generate this query for a large date range. System performance is adversely affected if generated for a large time frame.

SAMPLE QUERY

```
   Query Name: QXOP_NPC_RPT_BY_PAT_AND_EX      Routine:
        Printed: 08/19/91 at 11:45 AM
 Description: Non-procedural Charge Report by patient and exam
     Last edit: 08/14/91 at 3:37 PM by DBA
Last compile: 08/15/91 at 10:38 AM
SQL Text
========
--  This query will enhance the Non-procedural Charge Management Report
--  by allowing the report to order by patient name and then exam.


READ :XSTRTDT DATE HEADING 'Enter Start Date'
READ :XSTOPDT DATE HEADING 'Enter Stop Date'


SELECT  C.PAT_NAME SKIP 2 HEADING 'Patient Name' LEFT 20 COLUMN 1 CHANGED,
        N.CK_IN_NBR HEADING 'CI #' COLUMN 25 CHANGED,
        N.EXAM_NAME HEADING 'Exam Name' LEFT 35 COLUMN 5 SKIP CHANGED,
        C.AN HEADING 'Acct  #' COLUMN 10 CHANGED SKIP,
        N.CHG_ON_DATE HEADING 'Charge Date' CHANGED,
        N.NON_PROC_CHG_CD HEADING 'Code' COLUMN 33 CHANGED,
        N.NON_PROC_CHG_NAME HEADING 'Non-procedural charges'
          COLUMN 40,
        N.QTY_CHGD COLUMN 66 HEADING 'QTY'
FROM    XC_CK_IN_INFO C,XC_NON_PROC_CHG N,XC_CK_IN_INFO_DATE D


WHERE   D.CK_IN_DATE BETWEEN :XSTRTDT AND :XSTOPDT AND
        C.DPT = N.DPT AND
        C.CK_IN_NBR = N.CK_IN_NBR AND
        C.EXAM_CD_KEY = N.EXAM_CD_KEY AND
        C.CK_IN_NBR = D.CK_IN_NBR AND
        C.DPT = D.DPT
ORDER BY C.PAT_NAME,N.EXAM_NAME


HEADER  WRITE 'Facility ' | FAC CENTER 80,
        'Non-procedural Charge Report by Patient' CENTER 80 SKIP,
        'Printed on ' | TODAY | ' at ' | NOW CENTER 80
FINAL   WRITE 'Total Number of Non-procedural charges - ' | SUM(N.QTY_CHGD)
        SKIP  2
        WRITE 'End of Report' CENTER 80 SKIP 2
End>
```

Figure 10.8 Nonprocedural Charge Report by Patient and Exam

```
                              Facility A
                    Non-procedural Charge Report by Patient
                       Printed on 08/19/91 at 11:45 AM

 Patient Name                    CI #
     Exam Name
         Acct  #     Charge Date  Code Non-procedural charges
                                                             QTY
-----------------------------------------------------------------------------
 CRAMER,DONNA                     326
     BARIUM SWALLOW/UGI
         A5210       06/24/91     2106 ADDITIONAL FILM          1


                                 2382 CATHETER CHARGE           1


                                 2320 CONTRAST MEDIA            1


                                 1877 CT MISC PROCEDURE         1
                                 325
     NM RIA MISCELLANEOUS
         A5210       06/24/91     1627 NM MISCELLANEOUS         1


                                 1630 NM MISCELLANEOUS         1


                                 1650 NM ANTI-HBCAG            1


                                 1652 NM ANTI-HBE ANTIGEN      1
 HOLMES,HOLLY D                  315
     ABDOMEN DECUBITUS ONLY
         A5220       06/24/91     2717 GLUCAGON  1 MG           1


                                 2710 DIAGNOSTIC AGENT          1
                                 340
     ABDOMEN FLAT KUB
         A5220       07/12/91     2717 GLUCAGON  1 MG           1
                                 327
     COLON WITH AIR CONTRAST
         A5220       06/24/91     2989 FLUORO 10 MIN            1
 Total Number of Non-procedural charges - 12

                              End of Report
 End (22/68)>
```

Appendix A - STAR Vista Tool Kit Queries

Utiliity Queries

The following is a list of utility queries that are included with your Vista software. These queries can be used to check system settings, parameters, and other key information regarding your SQL processes and environment. Several queries are examples of how you can use system tables for reporting. Others are designed to provide reporting related to the STAR Data Dictionary and table utilization.

The naming convention for these queries varies and several may have been loaded on your system with a prior upgrade. For easy access in QRE, create a Utility Queries folder and add any of the following or your other favorite utility queries to that folder.

Note: If you would like to make changes to the criteria or output, copy the Vista utility query to another name using your hospital's naming convention. This will prevent your version of the query from being overwritten with a Vista upgrade.

Query Name	Description
QQ_BACKGROUND_QUEUE	Display Background Queue information. List of query information including Start Dates and Times and Output Device.
QQ_HBOC_GLOBAL_DOC	Global, Node and Piece Information Report. This query prints the global name, node definition, piece description and piece number for a given global. This can be used in conjunction with the Table/Node Cross reference to find the table name and then "PIECE" out the data. This was developed for those tables that were mapped to the DATA node only - such as the W2 and T4s in Payroll.
QQ_HBO_PORT_UTIL	Port Usage Log Report This report provides a listing of port activity by date. The query will prompt for the day to view and port number.
QQ_HBO_STARTDATE_PRINT	Query START_DATE Scheduling Options This query provides a list of SQL Start Dates that can be used for scheduling query run dates and times.

Query Name	Description
QQ_HBO_TABLE_QUERY	Tables Used by Queries Report This query can be used to determine impact on Table name changes or to find specific table(s) used in queries.
QQ_MCKN_COLUMN_TABLE_XREF	Column/Table Cross Reference Main Query This query will produce an SQL Column-to-Table Cross Reference in a 2 or 3 column per page format. Spool the output, then download the spooled report to a PC. There are three sub-queries used to create this - see comments in queries for additional information. QQ_MCKN_COLUMN_TABLE_XREF_1 – creates user table QQ_MCKN_COLUMN_TABLE_XREF_2 – load Data Dictionary columns QQ_MCKN_COLUMN_TABLE_XREF_3 – report.
QQ_MCK_AUDIT_QUEUE_DELETE	Halted Queries Report This query reports queries that have been halted using the Halt Query option within the Utilities menu.
QQ_MCK_COLUMN_LOOKUP	SQL Tables That Contain a Specified SQL Column Name his query prompts for a SQL column name and returns a list of all tables that have that column name. You can run this query to your screen or to a spooler report. The column name must be exact but is not case sensitive.
QQ_MCK_COMPILE_LOG_DOWNLOAD	Query Compile Log - Download File. This query produces an HTML_TEXT download file using the SQL Transaction Log table and pulls compiled query entries for a transaction date of today. See comments in query for additional information.
QQ_MCK_COMPILE_QUERY_LOG	Query Compile Log - Download File This query produces an HTML_TEXT download file using the SQL Transaction Log table and pulls compiled query entries for a specified date range. See comments in query for additional information.

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Query Name	Description
QQ_MCK_COMPILE_QUERY_LOG_ERROR	Query Compile Log Errors - Download File This query produces an HTML_TEXT download file using the SQL Transaction Log table and pulls compiled query entries for a specified date range. This query reports only compile errors. See comments in the query for more information.
QQ_MCK_MSE_JOB_TABLE	MSE Job Watch Listing This query produces a report similar to the information that displays in the STAR System Examine Job Status.
QQ_MCK_ONLINE_TABLE_DOC	Display online table documentation This query provides the SQL on-line table documentation for a single requested table.
QQ_MCK_QRY_TRANS_LOG	Query Transaction Log Information Transaction Log File for queries with the status of RUN. The query will create a PC file to the C: drive containing query information from the Query Transaction Logs.
QQ_MCK_QUERIES_RUN_FROM_A_MENU	Menus with queries defined to run from a menu This query identifies menus that contain queries to be run from a menu. It includes the Library Element, Description, Query Name and Menu Name. It runs a sub query named QQ_MCK_QUERIES_RUN_MENU_SUB.
QQ_MCK_SQL_ALERTS	SQL Alerts Parameters Report The query will print the alert details defined within the STAR Vista Reporting Alerts Configuration Screen.
QQ_MCK_SQL_TCP_PORTS	Vista Server TCP Port Information List of TCP ports defined in the Server Configuration and connection status.
QQ_MCK_USER_DEF_CNT	Number of Rows Per User-Defined Table Report Query is used to determine the Number of rows in each User-Defined Table.
QQ_SQL_FUNCTION_BY_TYPE	List of SQL Functions by Type This query will list the Functions available in STAR Vista - by Type

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Query Name	Description
QQ_SQL_FUNCTION_PRINT	List of site defined Functions This query will provide a listing of the functions and their syntax. The user can specify the specific functions or a range using the function name.

Tool Kit Queries

The following is a list of queries that have been developed to provide examples for commonly requested information and reports. Some of the queries are designed to help you monitor your Vista environment and activity. Other queries provide the code to help you find specific information for testing and troubleshooting. There are several queries that are examples of how to use a SQL function or internal tables.

Several of the queries can be accessed directly from the STAR Vista Tool Kit menu. For easy access to these queries in QRE, select all queries that begin with the prefix QTK_.

Note: If you would like to make changes to the criteria or output, copy the Vista Tool Kit query to another name using your hospital's naming convention. This will prevent your version of the query from being overwritten with a Vista upgrade.

** A version of this query can be run directly from the STAR Vista Tool Kit menu option

Query Name	Query Description
QTK_BACKGROUND_QUEUE **	Display Background Queue information. List of query information for scheduled queries including Start Dates and Times and Output Device.
QTK_COMPILE_QUERY_LOG_ERRORS	Copy Query Compile Error Log to desktop. Produces the Query Compile Error Log as a HTML_TEXT download file on the user's Windows Desktop. It only reports queries compiled through the Utilities – Compile All Queries menu option.
QTK_DATE_STAMP_PC_BATCH	Create a PC download with date stamp in file name. This batch query provides an example of how you can add a date stamp to a PC download file. Runs additional query named QTK_DATE_STAMP_PC_SUB

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Query Name	Query Description
QTK_FIND_EXPORTS_W_ERRORS	Find export files with errors within a date range. Query to identify export files with errors. Prompts included for entry of a partial file name and the date range. Sorted by Query Name and Run date
QTK_FIND_INTN_AND_AN **	Find internal numbers for testing Query to find internal numbers for efficient testing of patient level data. Prompt for entry of the external Patient Account Number.
QTK_FIND_QUERY_EXPORTS	Find export files created within a date range Query to report export files created within a date range. Enter a partial file name and the date range to be searched.
QTK_FIND_QUERY_EXPORTS_BY_DT	Find export files created within a date range sorted by date Query to report export files that are created within a date range. Prompts for a partial file name and the date range to be searched Sorted by Run Date and Query Name.
QTK_FIND_QUERY_EXPORTS_BY_NM	Find export files create within date range sorted by query name Query to report export files that are created within a date range. Enter a partial file name and the date range to be searched. Sorted by Query Name and Run date.
QTK_FIND_QUERY_RUN_INFO **	Check if a query(ies) ran within a date range To find if a query or queries completed within a date range. Prompts to enter a partial or exact name with underscores. Also enter the date range to be searched. Sorted by query name and run date.

Query Name	Query Description
QTK_FIND_ZERO_REC_EXPORTS	Find zero record exports within a date range
	Find export files created with zero records within a date range
	Enter a partial file name and the date range
	Sort by Query Name , Run date
QTK_QRY_COMPILE_ACTIVITY_STATS	Report of Query Compile Activity Statistics by Date.
	This query will produce a report of number of queries compiled from a specified date. This query can be used by SQL resources to see the level of compile activity during an upgrade. There are prompts for a start date and prompts to enter up to five query prefix names.
QTK_QRY_RUN_ACTIVITY_STATS	Report of Query Run Activity Statistics by Date
	The query produces a report of the number of queries run from a specified date. This query can be used by McKesson or customer SQL resources to see the level of query run activity during an upgrade. There are prompts for a start date and prompts to enter up to five query prefix names.
QTK_QRY_TRANS_LOG **	List of queries that have RUN within a date range
	This provides a list of queries that have run within a date range.
	Prompts to enter the date range to be searched.
	Sorted by Run Date and Query Name
QTK_QRY_TRANS_LOG_ERROR_DNLD	SQL Transaction Log Error Download By Date Range.
	This query will produce a download .csv file of SQL Transaction Log errors for a specified date range. The query also prompts for up to four 4-digit SQL error codes that can be excluded from the download. Downloads to PC and is sorted by transaction date and time.

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Query Name	Query Description
QTK_QUERIES_W_RUNTIME_GRT_X **	Queries with a total run time greater than x value.
	This lists queries with a total run time greater than X Hours – the value entered. Prompts also provided to specify a run date range.
	Sorted by Query Name and Run Date
QTK_QUERY_LAST_RUN_DATE	List Queries by Last Run Date
	This is a list of queries with a LAST RUN DATE less than the date entered in the prompt. This can be used to identify queries that are obsolete and no longer used. This is sorted by Last Run Date and Query name.
QTK_SECURITY_USER_REPORT	Security Report for User Parameters
	The information in this report is from the Security parameters defined in User Edit screens, General and Disable/Enable options.
QTK_TIME_STAMP_DIFFERENCE	Function to calculate difference between two timestamps
	The SQL_FN_TIMESTAMPDIFF function can be used calculate the difference between two timestamps using a specified time interval. Valid intervals are FRAC_SECOND, SECOND, MINUTE, HOUR, DAY, WEEK, MONTH, QUARTER, and YEAR.
QTK_USER_GROUP_QUERY_REPORT	List of queries available to each User Group
	This query provides a list of queries available to each User Group with a page break by Group.
QTK_VISTA_SERVER_CONFIG **	Display Vista Server Configuration
	List of TCP Port numbers with last process and last connection information.

Query Name	Query Description
QTK_WHERE_IS_THE_DATA	Find tables/columns with LIKE column descriptions
	This query will read through all the SQL table and columns returning columns that have a description LIKE the value entered in the WHERE clause. You may also limit the search to specific tables by including table prefix criteria in the WHERE clause. For example Pharmacy table names generally begin with "P".

ICD10 Queries

The following is a list of queries that have been developed to help you with the transition to ICD10. There is a set of queries (QQ_MCK_ICD10) that can be used to monitor the status of the STAR application build related to ICD10. These include changes to the billing and claims parameters, the financial class and insurance plan tables, as well as the diagnosis, HCPCS, and procedures tables. These queries may have been loaded with a previous upgrade and are already present on your system in ID1, ID2, ID5 and/or ID10.

There is also a group of queries (QQR_ICD10) that can be used to help you audit and identify queries on your system that may be affected by the ICD10 changes.   The queries produce report output format but can be copied and modified to download the data into an Excel spreadsheet. All of these queries can be run multiple times as you work through updating and testing the ICD10 changes.

Note: If you would like to make changes to the criteria or output, copy the ICD10 query to another name using your hospital's naming convention. This will prevent your version of the query from being overwritten with a Vista upgrade.

Query Name	Description
QQ_MCK_ICD10_BUILD_BILL_PARM	Billing Parameters that have the ICD-10 effective date field set.
QQ_MCK_ICD10_BUILD_CLM_LD_PARM	Claim Load And Edit Parameters that have the ICD-10 effective date field set.
QQ_MCK_ICD10_BUILD_DIAG_PNTR	This query lists the entries in the ICD Diagnosis Pointer Table that have an ICD-9 code but does not have an ICD-10 code.

Query Name	Description
QQ_MCK_ICD10_BUILD_DSM_PNTR	This query lists the entries in the DSM Pointer table that have the ICD-9-CM Code set but does not have the ICD-10-CM Code set.
QQ_MCK_ICD10_BUILD_FIN_CLS	This query lists entries in the Financial Classes table that have the ICD-10 Effective Date field set.
QQ_MCK_ICD10_BUILD_HCPCS	This query lists entries in the HCPCPS Master Table that have valid ICD-9 codes but no ICD-10 codes.
QQ_MCK_ICD10_BUILD_INS_CARR	This query lists entries in the Insurance Carriers Table that have the ICD-10 Effective Date field set.
QQ_MCK_ICD10_BUILD_INS_PLAN	This query lists entries in the Insurance Plans Table that have the ICD-10 Effective Date field set.
QQ_MCK_ICD10_BUILD_PROC_PNTR	This query lists entries in the ICD Procedure Pointer Table that have an ICD-9-CM code but does not have an ICD-10-PCS code.
QQR_ICD10_QRY_COLUMNS	Queries with ICD data elements as columns This query will list any compiled query that may have ICD columns in the query text/line. The user can enter a date range for the LAST RUN DATE. The query name, last run date and last run user are displayed. It is sorted by Query Name.
QQR_ICD10_QRY_COLUMNS_W_TEXT	Queries with text containing ICD data elements This query will list any compiled query and the line of text that may have ICD columns/data. The user can enter a date range for the LAST RUN DATE. The query name, last run date and last run user are displayed along with the query text line. It is sorted by Query Name.
QQR_ICD10_QRY_TABLES	Queries using tables modified for ICD10 This query will list queries using tables that have been modified for ICD10 or that may have ICD data elements. Tables that just have foreign key links added to the new ICD10 abstract tables are not included. It is sorted by Table Name.

Query Name	Description
QQR_ICD10_UDT_QUERIES	Queries with User Defined Tables containing ICD data.
	This query will identify user defined tables that have columns that may be ICD data and queries that use these tables.
	Includes and runs the following sub-query:
	QQR_ICD10_UDT_QRY_SUB
QQR_ICD10_UDT_TABLES	User defined tables that may have ICD columns
	This query will identify user defined tables thathavecolumnsthatmaybeICDdata.

Base Report Queries

The following is a list of queries that have been developed to provide data and output that either match STAR standard base Mumps reports, or that are variations or a subset of data that displays on a STAR standard base Mumps report. The tables used in several of the queries are based on mapping of the print images for the STAR report.

Note: If you would like to make changes to the criteria or output, copy the Base Report query to another name using your hospital's naming convention. This will prevent your version of the query from being overwritten with a Vista upgrade.

Query	Description
QQR_ELIG_PRVDR_ERR_RPT	Eligibility Provider Reject Reason Report This report will list Reject Reasons for providers in the Eligibility interface. The reject reason/errors are: 41-AUTHORIZATION/ACCESS RESTRICTIONS 79-INVALID PARTICIPANT IDENTIFIER 43-INVALID/MISSING PROVIDER ID 51-PROVIDER NOT ON FILE These errors will be on the STAR Base report - CGIEAUDx: Insurance Eligibility Audit Report, but this SQL report is to highlight these 4 specific reject reasons/ errors that will prevent a valid response from the provider. It is suggested that the report be emailed to the person(s) responsible. This can be used for RTE and RevRunner. To find the Interface Code, review COMM_LINE_DESC in HBO_HL7_COMM_LINES and update the WHERE clause for the specific Interface code . Includes and runs the following sub-query: QQR_ELIG_PRVDR_SUB In multi-CPU environment, run this query on the Pat Care CPU.
QQR_FAILED_BILLING_RPT	Failed Billing Errors by Responsible Area This query will list the failed billing errors by the responsible area. The errors are sorted by Biller Code and Patient Name within responsible area. This is a variation of the STAR FBR220 Failed Billing Requirements Controlled By report. In multi-CPU environment, run this query on the Financial CPU.

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Query	Description
QQR_FAR210_ADJ_POSTING_DTL	Daily Adjustment Posting Detail FAR210
	This query reports the daily adjustment posting detail as reported on the base FAR210 Adjustment Posting Detail report. Data reported is the activity from the previous day.
	Includes and runs the following sub-queries:
	QQR_FAR210_LOC_TOTAL_SUB
	QQR_FAR210_PAT_TOTAL_SUB
	QQR_FAR210_TRAN_TOTAL_SUB
	In multi-CPU environment, run this query on the Financial CPU.
QQR_FARAJR1_LATE_CHG_RPT	Late Charge Report.
	This query will reproduce the FARAJR1 Late Charge Report for the facility specified. It does not include cross-facility combined account charges.
	Includes and runs the following sub-query: QQR_FARAJR1_SUB1
	In multi-CPU environment, run this query on the Financial CPU.
QQR_FSRAOS_AR_BALANCES	Admin Operating Summary FSRAOS - Account Receivables
	This query reports the data in the "Today's A/R" section on page 2 of the FRSAOSx – Administrative Operating Summary. Activity and data reported is for the previous day and matches the base report data for that day.
	In multi-CPU environment, run this query on the Financial CPU.

Query	Description
QQR_FSRAOS_FINANCIAL_ACTIVITY	Admin Operating Summary FSRAOS - Financial Activity This query reports the financial activity data on page 2 of the FRSAOSx – Administrative Operating Summary. Activity and data reported is for the previous day and matches the base report data for that day. In multi-CPU environment, run this query on the Financial CPU.
QQR_FSRAOS_NURSE_STN_CENSUS	Admin Operating Summary FSRAOS - Nurse Station Info This query reports the Nurse Station data on page 1 of the FRSAOSx – Administrative Operating Summary. Activity and data reported is for the previous day and matches the base report data for that day. In multi-CPU environment, run this query on the Financial CPU.

Glossary

-A-

Access Path

A steering route (navigation) to data in a database.

Attribute

A logical data element with definition but no physical parameters.

ANSI

American National Standards Institute

-C-

Column

The vertical component of a table. Each column has a unique name and the same domain (data type).

Context-Sensitive Help

Available help at any point in every procedure.

-D-

DCL

Data Control Language. The verbs used to create and remove security privileges.

DDL

Data Definition Language. The verbs used to create and remove database objects, such as tables and views.

DML

Data Manipulation Language. The verbs used to add and alter records within a table. These verbs only work on SQL reserved globals and can not modify McKesson's application data.

DMS

Database Management System. Computer-based system to define, create, and maintain data.

DSN

Data Source Name. Defined in the ODBC setup, this is a system data source name that stores information about how to connect to a specific data provider.

Data

Individual pieces of information.

Database

A collection of data designed to be used by a variety of users.

Database Model

A model showing the architecture of the physical database.

Data Dictionary

A SQL schema that stores virtually all information in relational tables. These tables include the device management system, the user security system, the transaction logs, and the actual text of queries. The data dictionary also contains the table of tables, and the table of columns.

Data Security

Assuring that data is safe from unauthorized access, alteration, and destruction.

Data Structure

A hierarchy of entities and their attributes.

Data Value (Fields)

Basic unit of information that cannot be further subdivided.

Domain

A high level data type that specifies the type of the data. Columns are based upon domains. STAR Vista Reporting supports the following domains: NUMERIC, CHARACTER, INTEGER, DATE, TIME, and FLAG.

-E-

EZQ Editor

User-friendly method of producing a query.

-F-

Foreign Key

A set of one or more columns in one table that match to a set of primary key columns in another table.

Functions

Functions are essentially a short cut to achieving a result without having to access several tables. Functions can be created by the Database Administrator.

-H-

Hyperhelp

Online system of obtaining help quickly.

-I-

I.A.A.

Information Access Architecture. This has been developed by McKesson as our product and service strategy.

I.S.O.

International Standards Organization.

Index

An index table is used as a pathway to the major table and provides a way to define a subset of the major table to search. The definition of an index is similar to the definition of a table, except that all of the columns in the index must already exist in the associated table.

Interface

Link between a new system and an existing system.

-J-

JDBC

JAVA Database Connectivity.

JRE

JAVA Runtime Environment.

Join

Retrieval from more than one table. As the name suggests, a join means that some or all of specified tables' contents are joined together in the result of a query.

-K-

Key

The item by which a data file is sorted or searched. For instance, if a file of names and addresses is sorted by ZIP codes, the ZIP code is the key.

-L-

Link

Another name for a foreign key.

-M-

MUMPS

Massachusetts General Hospital Utility Multi-Programming System.

-N-

Network

A set of computers connected together.

Null

Represents the lack of a value. Null doesn't really belong to any domain (data type). STAR Vista Reporting handles nulls as a special case.

-O-

ODBC

Open Data Base Connectivity. It is a Microsoft standard for open database reporting.

-P-

Parsing

Parsing is a RUN translation step. While the query is being compiled, this is the step that automatically checks the text in the SQL window for valid syntax.

Planning

Planning is a RUN translation step. During compilation of the query, and after the parsing step, the planning step attempts to find the best method of performing the query.

Primary Key

A column or group of columns that insure(s) the uniqueness of rows within a table.

Privileges

The part of the security system that specifies which tables and queries each user can access.

Prototype

The first of its kind that is repeatedly enhanced to meet an end objective.

Pseudo-column

A system-defined or user-defined column name that may be referenced like columns, but are not stored in a table.

-Q-

QMF

Query Management Facility. This has been renamed to SQL Editor but has the same functionality.

QRE

Query and Reporting Environment. A Windows-based editor and graphical interface using an ODBC connection to STAR for query development and reporting.

Qualifications

The part of the security system that specifies which SQL commands each user is allowed to execute.

Query

The standard method of accessing a relational database for extraction and combination of table data.

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-R-

Related Tables

Tables that contain information belonging to the same category of information (patient information, lab results, radiology results, etc.).

Relational Database

A database architecture with no predefined subordinate relations.

Relational Model

This model was first put forth by E.F. Codd, a researcher at the IBM® San Jose laboratories, in a paper published in 1970. The model requires that all information contained in the database be presented to the user as a two dimensional table. A table is composed of one or more columns (fields) and zero or more rows (records). The relational model does not restrict how the data is actually stored, but rather the way the data is presented to the user.

Relational Theory

The mathematical principles supporting the relational model.

Repository

The local store of data dictionary information created in the Explorer component of QRE. It is available for use by query developers.

Row

Also known as a record or tuple, a row is the horizontal component of a table. A row is comprised of one or more columns.

Run

The RUN option executes the commands in the SQL window.

-S-

SQL

Structured Query Language.

SQL Editor

This name has replace the QMF (Query Management Facility), but has the same functionality.

Schema

A collection of tables per product, or a grouping of tables.

-T-

Table

A two-dimensional graphic representation of data consisting of columns and rows.

Table Index

This is another name for index table. A table index is used as a pathway to the major table and provides a mechanism to define subset of the major table for searching.

-V-

View

A view exists logically and has no physical existence. To the user, a view looks like a table, but actually is the result of a query. There are three main purposes for views. First, it simplifies a query by removing query complexity. Secondly, a view may restrict what columns a user can access, and lastly, provides the means for a user to see the same data in different ways.

Virtual Table

A table that exists logically, but not physically. A virtual table is defined by the user.

Vista Reporting

STAR Vista Reporting is the name of McKesson's data access and reporting tools that are designed to work with the STAR system.

VSD (Vista Software Distribution)

Vista Software Distribution allows you to perform STAR Vista Reporting Data Dictionary updates between application upgrades. For more information, see .

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Topic	Poor	Fair	Good	Excellent
Organization of information	❑	❑	❑	❑
Accuracy of information	❑	❑	❑	❑
Completeness of information	❑	❑	❑	❑
Clarity of information	❑	❑	❑	❑
Amount of overview information	❑	❑	❑	❑
Explanation of processes	❑	❑	❑	❑

Are there parts of this manual that could be made more helpful to you? Please explain.

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May we contact you?   Yes or No (circle one)

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