

**Chapter
1**

**GETTING
STARTED**

*Get on the
Fast Track!*



TM

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Objectives

You will learn:

- The facilities of File-AID for DB2.
- How to create and alter objects.
- Creating test tables.
- Customizing data.
- Authorizing objects.
- Prototyping and enhancing SQL.
- Using the utilities.

1 Purpose and Function

File-AID for DB2 is a DB2 database management and testing tool with an ISPF type interface which provides the capability for creating, populating, customizing, and refreshing data in a DB2 database.

Application programmers, analysts, and administrators can use File-AID for DB2 for creating tables modeled on a pre existing table, copying data from an existing table, and editing data. These tasks can be performed without IBM utilities or SQL.

File-AID for DB2 can provide a concisely formatted list of privileges for an object. This information can be used to help in avoiding authorization failures and allows authorized users to grant and revoke privileges.

SQL statements can be interactively executed and Explain statements analyzed; this information can then be used to suggest improvements. This eliminates the need to recompile and rebind in order to verify the SQL. It also allows prototype SQL to be coded prior to incorporating it into an application.

2 Facilities

2.1 Objects: Creation and Altering

File-AID utilizes panels to direct the user in DB2 object definition, modification, and deletion; it is not necessary to code or run SQL directly.

A number of objects are supported:

| | | |
|----------|---------------|-----------|
| • tables | • tablespaces | • indexes |
| • views | • synonyms | • aliases |

File-AID for DB2:

- Contains a modeling option to help in building duplicates of existing tables.
- Automatically creates a primary key index.
- Provides alter and drop capabilities in order to change and remove objects.

2.2 Test Tables: Creation

File-AID for DB2 populates test tables with data copied from existing tables. This can be performed by using the Copy Rows Between Tables utility and specifying the From and To tables.

When the To table does not exist, there will be an option to have File-AID for DB2 automatically create the table.

- Templates based on DB2 table definitions are displayed with like-named columns already matched.
- Generated templates can be utilized in place of SQL subselects.
- Extended WHERE clauses and SQL Boolean operators are both supported.

2.3 DB2 Tables: Full-screen Browsing and Editing

The user can perform full-screen browsing and editing of DB2 tables. The DB2 table definition is presented; there is no need to remember specific column name spellings. Partial column names can be entered as required.

Both column and row selections are available; this makes it possible to work with a tailored subset of the table. Row selection supports all SQL Boolean operators and extended WHERE clauses. Selection criteria can be saved and reused.

In Browse/Edit, the DB2 table definition is displayed, along with the column names, length, and format. Data can be scrolled and sorted, and rows can be excluded, copied, inserted, deleted, and repeated individually or in blocks. The FIND and CHANGE commands can be used to search the table or specific columns

2.4 Authorizing Objects

File-AID for DB2 will list authorizations on a given object, without coding SQL. This helps programmers and analysts determine authorization and avoid privilege errors.

Database administrators, project leaders, or other authorized users can grant and revoke privileges using ISPF panels.

2.5 SQL Statements: Insertion, Analysis, and Modification

The SQL Source Development and Analysis facility provides the ability to insert and analyze new SQL statements in source code. It also provides the ability to modify existing SQL statements.

File-AID for DB2 can be used to analyze:

- SQL statements
- a Plan
- the DBRM
- the Collection ID
- the Plan_Table

File-AID for DB2 can also be used to obtain an Explain report. Rules-based analysis of the Explain is provided along with object attributes and catalog statistics. Conditions, consequences, and recommendations relating to the performance of the SQL statement are provided.

3 Primary Option Menu

```
File-AID for DB2 - 4.9 ----- Primary Option Menu -----
OPTION  ==>

          More:          +
0  DEFAULTS and USER PARMS      USERID  -   #6005
1  BROWSE                        TIME     -   11:52
2  EDIT                          TERMINAL -   3278
3  UTILITIES                     PF KEYS -    12
    3.2 - Create, Drop, Alter DB2 Objects      DB2 SSID ==>  DBD1
    3.3 - Copy Rows Between Tables
    3.4 - Object List Processing
    3.5 - SQL Command Manager
    3.6 - Display, Grant, Revoke or Modify DB2 Privileges
    3.7 - Extract and Load Tables
    3.8 - DBA-XPERT Column Impact Analysis
```

4 User Params

```
File-AID for DB2 ----- User Params -----
OPTION  ===>                               Scroll ===> PAGE

DB2 Subsystem: DBD1          ===> DBD1          DB2 Version: 8.1.5
Current SQLID: #6005        ===> USER          FADB2 Version: 4.9.0.23
Current SCHEMA: #6005      ===> USER          SQLP Version: 04.09.00
                                                FM Version: R2.1

          1  Browse/Edit/SQL Analysis Display Options
          2  Dataset Allocation
          3  Batch Options
          4  Not Used
          5  Index, Tablespace, and Database default values
          6  Logging Options
```

The user parameters option allows the parameters to be set for the:

- Browse/Edit/Analysis displays options.
- Dataset allocation for SQL.
- Batch options.
- Index, tablespace, and database default values
- Logging options
- Print options
- System path options

5 Browse and Edit

The Browse option provides the capability to display a table, alias, or view, either in its entirety or by selected rows or columns. LOB will not appear.

It is possible to specify the information to be viewed or set the data to be excluded.

- Both single tables and multiple related or unrelated tables can be browsed.

Edit can be used for making changes to a table and most views.

- The Related Table Edit function enables tables to be related through DB2 referential integrity or an application relationship.

6 Utilities: DB2 Work Environment

The following utilities are used for managing a DB2 work environment.

- Create, Drop, Alter DB2 Objects
- Copy Rows Between Tables
- Object List
- SQL Command Manager
- Display, Grant, Revoke, or Modify DB2 Privileges
- Extract, Load Tables
- DBA-XPRT Column Impact Analysis
- Batch Execute SQL with Auto-COMMIT Processing
- SQL Development and Analysis

7 SQL Source Analysis and Development

SQL Source Analysis and Development is:

- | | |
|--------------------------------------|---|
| • Accessed through File-AID for DB2. | • Invoked directly from an ISPF Edit session. |
|--------------------------------------|---|

SQL Source Analysis and Development can be used to:

- Dynamically execute SQL statements.
- Browse and edit the DB2 results table.
- Obtain Explain information about how SQL statements perform.
- Obtain help information for any SQL coding errors.