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File-AID/Related Data XPERT

Reference Summary

Release 16.03

Please direct questions about File-AID/Related Data XPERT
or comments on this document to:
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Introduction

This quick reference summarizes the primary and line commands, and selection criteria relational operators for File-AID/Related Data XPERT (File-AID/RDX). For more information on the commands, refer to the *File-AID/Related Data XPERT Reference* manual.

Notation Rules

- All keywords are shown in UPPERCASE.
- All variables are shown in lowercase.
- Required parameters appear on the horizontal line (the main path).
- Optional parameters appear below the main path.
- Vertically stacked variables or keywords are mutually exclusive.
 - If you must choose a parameter, one item in the stack appears on the main path.
 - If the parameters are optional, the entire stack appears below the main path. The default value appears above the main path.

Summary of Options

0	Profile
1	Relationships
2	Extract
3	Load
4	Delete
5	Data Privacy
6	RDX Utilities
G	Global Defaults
FD	File-AID <i>for DB2</i>
C	Changes
T	Tutorial
X	Exit

Profiles

The primary menu displays the name and type of your current File-AID/RDX *profile*.

The current profile establishes default values for your extract, load and disguise processes.

There are three types of profiles:

- **SITE**
- **USER**
- *prefix*

The **SITE** profile file was created during installation of File-AID/RDX at your site.

USER selects your own profile file (your *userid.mlq.PROFILE*). The TYPE field then displays your *userid*.

prefix identifies a profile file with the specified high level qualifier (up to 26 positions). Entering a prefix that includes the string &USERID will substitute the current *userid* when the profile file is allocated. The *prefix* must not include the *midlevel qualifier*.

The **USER** and *prefix* profile files are created when entered for the first time.

The following sample profiles are included in the install file and may be customized during the install and placed in the **SITE** profile file:

- RDXQUICK intended for novice users
- RDXMENU intended for full function users
- RDXFLOW intended for all panel navigation

Use Option 0, **Profile**, to select, create or change profiles.

Relationships

File-AID/RDX allows you to define, load and modify relationships between DB2, MVS objects, and/or IMS or Output Key File and store them in a repository, the File-AID/RDX *relationship file*.

Application relationships can also include one or more conditional tests on the parent object to be evaluated at extract execution time; the conditional relationship (AR-C) will then only be navigated when the condition is true.

Use Option 1, **Relationships, Relationship Facilitator**, to populate and maintain the relationship file. When File-AID/RDX extracts sets of related data (Option 2, Extract), it uses only the relationship information as defined in the relationship file.

These Relationship Utilities allow you to:

- Allocate relationship file
- Load and update RI in relationship file
- Print relationship file

Extract

Option 2, **Extract**, extracts relationally intact sets of data from one or more related or unrelated objects (DB2 tables and MVS files) based on your current profile or a previous extract request.

Should your installation permit the option to extract DB2 data from Image Copy, you could also choose to execute the extract outside of your production environment.

File-AID/RDX generates the JCL to perform the extract. Before submitting the JCL, you can review and specify extract and selection criteria to apply during the extract process. Additionally, you can combine the extract and load steps into a single JCL procedure. The extracted data is stored in the File-AID/RDX *extract file*.

You can select previously saved extract requests either from the Extract Reference List or your Extract Request File and

- immediately resubmit them without changes (**G** line command)
- change only the selection criteria (**C** line command)
- modify selected extract options from the Extract Menu (**S** line command)
- modify or “clone” an existing request to run on a different subsystem or MVS environment which has the same objects but with different names (**M** line command)

File-AID/RDX also offers a single panel extract selectable from your profile intended for the novice user.

Load

Option 3, **Load**, loads relationally intact sets of data from a File-AID/RDX extract file into one or more related target objects (DB2 tables and MVS files) based on your current profile or a previous load request. If the target objects don't exist, File-AID/RDX can create new objects in the target environment automatically before it loads the data. File-AID/RDX generates the JCL to perform the load.

You can select previously saved load requests either from the Load Reference List or your Request File. Whenever you submit an extract request, with the exception of single panel extracts, it automatically creates an entry in the Load Reference List so you can execute the load request as soon as the extract completes successfully.

Delete

Option 4, **Delete**, deletes all the extracted records from the original source objects. The Delete Option only applies to DB2 and MVS KSDS objects.

You can select previously saved load requests either from the Delete Reference List or your Request File. Whenever you submit an extract request, with the exception of single panel extracts, it automatically creates an entry in the Delete Reference List so you can execute the delete request as soon as the extract completes successfully.

Data Privacy

Option 5, **Data Privacy**, allows you to disguise extracted data prior to moving it into a test environment. In this context, disguising data means to change the identifying characteristics from the data, such as name and address information, while still maintaining the structure and relationships of the original data. Data Privacy requires installation of Compuware's File-AID/Data Solutions and, optionally, the File-AID Data Privacy component of the Topaz Workbench¹.

You define the disguise criteria for individual objects and save it in the Disguise Control File. Then, whenever you extract data from those objects with disguise enabled, the disguise criteria will be applied to achieve consistent and repeatable result. It is also possible to disguise existing extract files using the same Disguise Control File.

These Disguise Utilities allow you to:

- Allocate Disguise Control File
- Allocate Disguise Criteria File
- Print Disguise Control File
- Print Audit Trail

RDX Utilities

Option 6, **RDX Utilities**, allows you to:

- Update relationships in saved extract requests
- Create JCL to Execute Saved Request (ESR) with overrides
- Compress or Decompress Extract File
- Generate DDL from Extract File

1. The Compuware Workbench has been replaced by the Topaz Workbench. The Topaz Workbench provides all of the functionality of the previous Compuware Workbench as well as any additional chargeable functionality.

Primary Commands

ACCEPT (A) : Accept all flagged relationships to be included in the extract. When you press Enter, you return to the previous Extract Scope screen where you entered the CHECK command. Check Extract Warning screen only.

ADD (A) : Allows you to add an application relationship. Displays the Add Relationships — Specify Object Types screen so you can specify the parent and dependent object types for the new relationship.

ALL : Allows you to step through all menu options in sequence. Profile, Extract, and Load menus only. Selects all objects in the Object List Preview windows and the Add Unrelated DB2 Objects window.

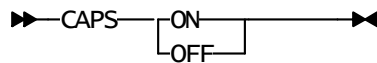
Selects and loads all RI relationships into the relationship file. Valid in the “RI Relationship Detail Screen”.

BACK : Displays the previous selection criteria set in a criteria file. Object Selection Criteria screen only.

CANCEL : Exits a panel without saving any changes.

CAPS : Toggles caps mode on and off.

ON converts lowercase text to uppercase letters.



CHANGE (C) : Allows you to globally replace character strings in the listed items on a panel. Valid parameters vary from panel to panel. When entered without any parameters, a Change Command window prompts for these parameters.

CHECK (CHE) : Check causes the integrity validation processing to be invoked and the resulting error to be displayed. Extract Scope Object View and Extract Scope Relationship View screens only.

COND : Displays the Relationship Condition Definition panel where you can define a conditional test for the current AR. You must have already established a relationship before you can issue the COND command. Valid only on the Column/Field Relationships panels

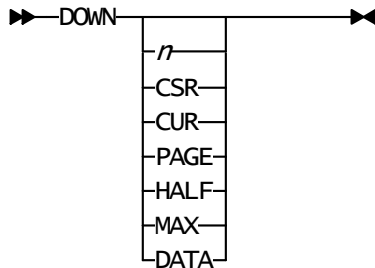
CREATOR : When entered in the graphical relationship display, all DB2 objects will include their Creator ID. Toggle command, thus, when entered again, DB2 objects will include their Creator ID only when there is more than one object with the same name.

DB2 : Switches to the corresponding DB2 Object panel, in order to specify DB2 objects. Valid only for the MVS Driving Object, MVS Relationship Facilitator, NEW MVS Object Filter, ObjectIn MVS Object Filter, or ObjectOut MVS Object Filter panels.

DETAIL (D) : Toggles the list display between a one line and a two line display in the Reference List screens.

DELETE : Deletes the current selection criteria set in a criteria file. Selection Criteria Specification Screen only.

DOWN : Scrolls toward the bottom of the data by the specified amount.



EDIT (E) : Displays the JCL for this extract request. File-AID/RDX shows the Generated JCL panel where you review and modify the extract JCL. “Extract - DB2 Driving Object” and “Extract - MVS Driving Object” screens only.

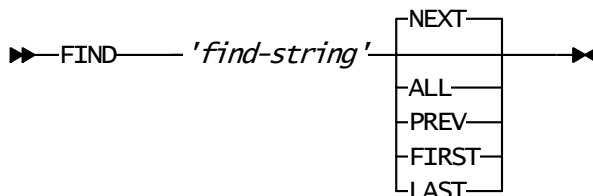
END : Displays the previous screen.

EXCLUDE (EX) : Exclude relationships from the extract or load process. Valid parameters vary from panel to panel. When entered without any parameters, an Exclude Command window prompts for these parameters.

EXPAND : The EXPAND command enables you to view the full content of a scrollable field in a separate window. Type EXPAND in the command line of the panel, move the cursor into the field to expand, and press ENTER.

FILTER : Restricts the relationships being displayed to the relationships for a specified object. Specify the object in the Filter command window. Extract Scope Object View and Extract Scope Relationship View screens only.

FIND : Searches the displayed data and positions the line with the first occurrence of the find-string to the first line of the displayed data. Valid whenever a list is displayed.



FORWARD : Displays the next selection criteria set in a criteria file. Selection Criteria Specification Screen only.

FUNCTION LOCK : Enables the “Lock Table during Extract” function for all DB2 objects. It enables the L (Lock) line command and display the L status column. FUNCTION LOCK is a toggle switch. “Extract Scope - Object View” panel only.

Note: The FUNCTION LOCK primary command is only valid if File-AID/RDX was configured at installation to allow locking tables during extract.

GEN : Generate:

1. Processes the selected execute saved request (ESR) options. Valid on the “Execute Saved Request (ESR) Options” panel.

2. Processes the Generate DDL utility request. Valid on the “Generate DDL Utility” panel.

GO : Submits an extract or load request from the Extract - DB2 Driving Object or Extract - MVS Driving Object screen. Submits a job from various utilities panels.

GRAPHIC (G, GR) : Displays the Graphical Relationship Display screen. Valid on the Relationship Detail and the Extract Scope - Relationship View screens.

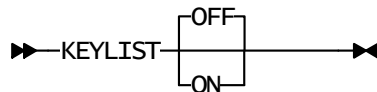
HELP : Invokes context-sensitive help.

HIDE (H) : The HIDE command allows less data to be displayed. Included, excluded and different object types can be removed or hidden from the display. Use the RESET command to return all hidden objects to the display. Valid Parameters differ between Extract Scope and Target Environment panels.

IGNORE (I) : Ignore all flagged relationships, they will not be included in the extract and their status changes to “*Relational error ignored*”. You can still use the Accept Path line command to change the status individually or enter the ACCEPT primary command. Check Extract Warning screen only.

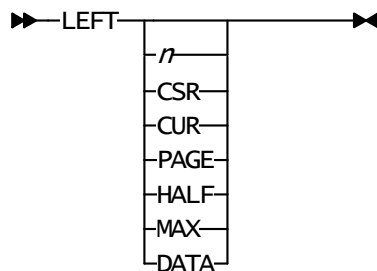
INSERT : Inserts a new selection criteria set after the currently displayed set in a criteria file. Selection Criteria Specification Screen only.

KEYLIST : Displays key list utility. ON and OFF valid only with ISPF 4.1 or newer.



KEYS : Displays the default PF key settings. Settings then can be modified and saved.

LEFT : Scrolls toward the left of the data. Valid only on the Selection Criteria screen.



LIMITKEY (LK) : Displays the “Limit Key Definition” screen which lets you define the limit key value for each logical partition, if the tablespace is partitioned. Valid in the “Create Tablespace”, “Create DB2 Table”, and “Create Index” panels.

LOCATE : Searches the list and scrolls the line with the locate-string to the top of the displayed data.



MENU : Switches to the full Extract or Load Menu from a submenu when in flow mode. Toggles between displaying all or a subset of options in the File-AID/Data Solutions Criteria Menu.

MODE : Enter the MODE command to execute the extract or load request interactively (online). Extract and Load Menu screens only.

MVS : Switches to the corresponding MVS Object panel, in order to specify MVS objects. Valid only for the DB2 Driving Object, DB2 Relationship Facilitator, NEW DB2 Object Filter, ObjectIn DB2 Object Filter, or ObjectOut DB2 Object Filter panels.

NAVIGATION (NAV) : The NAVIGATION command takes you directly to the NAVIGATION format of the relationship view. Extract Scope Object View and Extract Scope Relationship View screens only.

NEW : Creates a new extract, load, or delete request or a new disguise object list. (Reference List and Request File Member List screens only). Also defines a new associated criteria rule in the Associated Rules List.

NEXT : (PF11) Goes to next selected menu option in flow mode. Profile screens only.

OBJECTIN (OI) : Allows you to add objects to your current object list. This command displays either the ObjectIn - DB2 Object Filter or ObjectIn - MVS Object Filter screen. The ObjectIn Filter panels work the same as the NEW - DB2 Object Filter and NEW - MVS Object Filter screens.

OBJECTOUT (OO) : Allows you to remove objects from your current object list. This command displays either the "ObjectOut - DB2 Object Filter" or "ObjectOut - MVS Object Filter" screen.

PARTITION (PART) : Displays the "Partition Definition" screen which lets you define the attributes for each index/tablespace partition. Edit Tablespace and Edit Index screens only.

PREV : (PF10) Goes to previous selected menu option in flow mode (Profile screens only).

REFERENCE (REF) : Switches to the applicable Reference List from a Request File Member List or from the Extract or Load Menu.

REFRESH (R) : Refreshes the list of objects of the "Target Environment" screen. Use the REFRESH command after changes to the listed objects have an influence on the hierarchal and alphabetical order of the display.

REPEAT : Repeats (duplicates) the currently displayed selection criteria set in a criteria file. The new set is inserted after the currently displayed set. Selection Criteria Specification Screen only.

REPORT (REP) : Prints the logical contents of the display. This report includes all of the displayable lines formatted like the current view.

REQUEST (REQ) : Switches to the applicable Request File Member List from a Reference List or from the Extract or Load Menu.

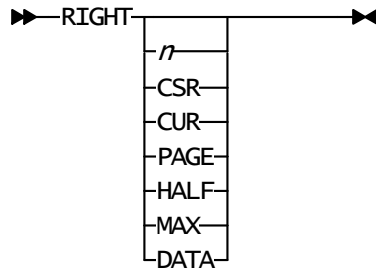
RESET (RES) : Use the RESET command to return all hidden objects to the display. Extract Scope and Target Environment screens only.

RETURN : Terminates current function and displays File-AID/RDX Primary Option Menu.

RETRIEVE : Redisplays the last command entered.

RFIND : Repeats the previous FIND command.

RIGHT : Scrolls toward the right of the data. Valid only on the Selection Criteria screen.



SAMPLE (SAM) : The SAMPLE command takes you directly to the SAMPLE format of the relationship view. Extract Scope Object View and Extract Scope Relationship View screens only.

SHOW (SH) : The SHOW command alters the contents of the SHOW column in the “Target Environment” screen. Depending on the specified parameter, the SHOW column can display the associated database, tablespace or stogroup information for the appropriate DB2 objects in the list. SHOW without a parameter displays the SHOW COMMAND window. “Target Environment” screen only.

SIZE (SI) : Toggles the size of list display area by hiding or displaying the panel header lines in various list display screens.

SPLIT : Splits the screen vertically at the cursor’s location.

SORT : Sorts the displayed list by the specified column name.



SQL : Invokes an edit session of selection criteria in SQL format.

SQLID : Changes the current SQLID.

STATUS (STAT) : The STATUS command takes you directly to the STATUS format of the relationship view. Extract Scope Object View and Extract Scope Relationship View screens only.

SUBMIT (SUB) : Submits the extract JCL, load JCL, and delete JCL for processing.

SUGGEST (SUG) : The SUGGEST command suggests a relationship when the parent and dependent column or field name, type and length are identical. Column/Field Relationships screens only.

SWAP : Toggles between logical screens in a split session.

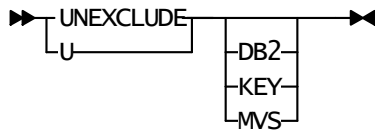
TABLE (TAB) : Displays the “Tables Within View” screen which lists the tables that are part of the complex view. Edit View screen only.

UDTSWAP (UDTS) : Swaps the display for distinct type columns from UDT name to the built-in data type and length and vice versa.

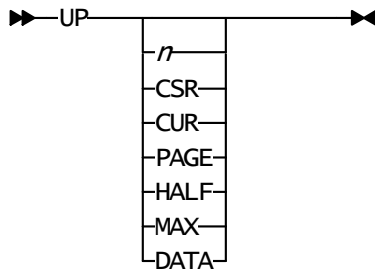
UDTTYPE (UDT) : Lists all distinct data types (UDTs) that are part of the extract. The list displays the schema, UDT name, and the built-in data type and length.

UNEXCLUDE : Unexcludes all previously excluded relationships from the extract or load process. Extract Scope Object and Relationship View panels as well as Source to Target Mapping and Target Environment panels only. The

optional parameters DB2, KEY, and MVS limit the UNEXCLUDE command to one of the three object types.

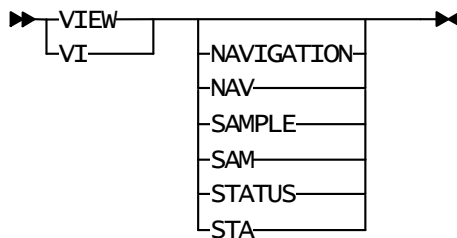


UP : Scrolls toward the top of the data by the specified amount.



VALIDATE (VAL) : Validate all relationships before you continue with the extract process. The message “No changes” informs you that all relationships have been successfully validated. If there are inconsistencies, the Update Saved Request window reports the validation results and gives you the opportunity to update the extract request. Extract Scope - Relationship View panel only.

VIEW (VI) : The VIEW command allows the user to easily switch between the object and relationship views. The parameters SAMPLE, STATUS and NAVIGATION can also be used as primary commands to go directly to the corresponding format of the relationship view. Extract Scope Object View and Extract Scope Relationship View screens only.



Line Commands

File-AID/RDX always displays the valid line command(s) for the current screen.

A (Accept Path) : Accept an individual relationship to be included in the extract. When you press Enter, you return to the previous Extract Scope screen where you entered the CHECK command. Check Extract Warning screen.

A (Add) : Adds:
 – Column/Field Relationship for application relationships

- Unrelated object to extract specification
 - Literal definition during Load Column/Field Mapping
- A (Add/Assign Rule)** : Displays the Associated Rules List where you can select an already defined associated disguise rule or create a new associated rule to assign to a selected column.
- A (All)** : Extract all data from this object regardless of the relationships from and to this object.
- B (Browse)** : From the Relationship Facilitator Option, B enables you to browse the relationship file for the selected object by displaying the Column Relationships screen.
- C (Change and Go)** : Select an extract request and change the selection criteria for the driving object before submitting the request (Extract Reference List and Extract Request File Member List screens).
- C (Copy)** : Copies a profile member (Profile Selection screen).
- D (Delete)** : Deletes:
- Relationship on the current line
 - Selection criteria for the object on the current line
 - Literal definition during Load Column/Field Mapping
 - Entries from a Reference List or Request File
 - Entries from the list of partition definitions
- E (Edit AR)** : From the Relationship Facilitator Option, E enables you to maintain (add, edit, delete) application relationships for the selected object by displaying the Column Relationships screen.
- E (Edit Object)** : From the Target Environment screen, E enables you to edit object create information for the selected object. (Obsolete, replaced by S line command.)
- G (Go)** : Submits an extract, load, or delete request immediately without any changes (Reference List and Request File Member List screens).
- I (Ignore Path)** : Ignore an individual relationship, it will not be included in the extract and its status changes to "*Relational error ignored*". You can still use the Accept Path line command to change the status individually or enter the ACCEPT primary command. Check Extract Warning screen.
- I (Information)** : I line command summary:
- Display information about a relationship
 - Display detailed information about an extract, delete, or load request
 - Display DDL for selected DB2 object
 - Display data disguise information for an object
 - Display data disguise information for a column/field
- I (Insert)** : The I (Insert) line command inserts a different partition after the current partition. The inserted partition(s) are based on the model partition. To insert more than 1 partition at a time, enter the number of partitions with the I line command (*nmn* = 1 - 999). Valid on the "Tablespace Partition Definition" and "Index Partition Definition" panels.
- L (List DB)** : In the Data Disguise - Object List, lists all objects that are in the same database as the selected object and are not already in the object list. Then you can select any of the objects to be added to the object list.

- L (Load RI)** : From the Relationship Facilitator Option, L enables you to maintain (load, delete) DB2 RI relationships for the selected object by displaying the Column Relationships screen.
- L (Lock)** : Prevents the request entry from rolling off the Reference List.
- L (Lock Table)** : Indicates whether or not a table will be locked during extract. The L line command is not available if File-AID/RDX was configured at installation to prevent locking tables during extract. In this case, the L column will not be displayed.
- M (Modify)** : Selects
- an extract request and modifies or “clones” it to run on a different DB2 subsystem or MVS environment which has the same objects but with different names.
 - an unrelated MVS file to modify its record layout information (Unrelated Object Specification screen only).
- n (column-number)** : Establishes a relationship between a column/field from the parent object and a column/field from the dependent object.
- O (ObjectOut)** : In the Data Disguise - Object List, removes the selected object from the object list.
- P (Passthru)** : Don't extract any data from this object, but process all relationships as if records based on the relationship would have been extracted.
- R (Related objects)** : In the Data Disguise - Object List, searches the relationship file and displays any related objects that are not yet included in the object list. Then you can select any of the related objects to be added to the object list.
- R (Relationship View)** : Mark this object to be included in the Relationship View when the VIEW primary command is entered.
- R (Remove)** : Removes an unrelated object from the Unrelated Object List.
- R (Rename)** : Renames a profile member (Profile Selection screen) or Request File member (Request File Member List).
- R (Repeat)** : The R (Repeat) line command repeats a partition definition in the list of different partitions from the model. To repeat a partition definition more than once, enter the number of repetitions with the R line command (*nnn* = 1 - 999). Valid on the “Tablespace Partition Definition” and “Index Partition Definition” panels.
- R (Restore)** : Restores the original object name for the selected object. Valid on the “Modify Object Names - DETAIL Screen”.
- S (Select)** : Selects:
- Relationship for processing
 - Object or Member from a list pop-up window
 - Pair of objects for column/field mapping
 - Column/field to load literals
 - Literal definition for a column/field
 - Object for selection criteria specification
 - Object for refresh of relationships
 - Extract, load, or delete request
 - Suboption in the Profile, Extract, or Load Menu
 - Object for data disguise
 - Column/field for data disguise

- Object on the Target Environment screen to edit object create information.

U (Unassign Rule) : Removes a disguise rule from a column in the “Data Disguise - Column List”.

U (Undo Remove) : Reverses removing an unrelated object from the extract set.

U (Unexclude) : Includes a relationship that had been previously excluded from an extract or load. To exclude a relationship, use the X (Exclude) line command.

U (Unlock) : Removes the lock status from an request entry in a Reference List.

U (Update) : Opens a literal definition to be updated.

V (View JCL) : Displays the JCL for this load or extract request (Reference List and Request File Member List screens for extract and load).

X (Exclude) : Removes a relationship from an extract or load. To include a previously excluded relationship, use the U (Undo) line command.

Default Key List Assignments

<i>PF Key</i>	<i>F2CMDS3</i>	<i>F2CMDS3B</i>	<i>F2CMDS8A</i>	<i>RDxDFLT1</i>	<i>RDXPARMS</i>
PF1/13	HELP	HELP	HELP	HELP/EXPAND	HELP/EXPAND
PF2/14	SPLIT	SPLIT	SPLIT	SPLIT	SPLIT
PF3/15	END	END	END	END	END
PF4/16	RETURN	RETURN	RETURN	RETURN	TOGGLE/RETURN
PF5/17	RFIND	RFIND	RFIND	RFIND	LOCK/RFIND
PF6/18	RCHANGE	RCHANGE	EXECUTE	RCHANGE	UNLOCK/RCHANGE
PF7/19	UP	UP	UP	UP	UP
PF8/20	DOWN	DOWN	DOWN	DOWN	DOWN
PF9/21	SWAP	SWAP	SWAP	SWAP	SWAP
PF10/22	LEFT	PREV	LEFT	LEFT	PREV/LEFT
PF11/23	RIGHT	NEXT	RIGHT	RIGHT	NEXT/RIGHT
PF12/24	RETRIEVE	RETRIEVE	RETRIEVE	CANCEL	RETRIEVE/ZCLRSFLD

EDIT SQL Line Commands

EDIT SQL line commands can be specified with a repetition factor, *n*. Block commands are not valid.

D (Delete)	Deletes the current line.
D<i>n</i>	Deletes the current line plus <i>n</i> subsequent lines.
I (Insert)	Inserts a line after the current line.
I<i>n</i>	Inserts <i>n</i> number of lines following the current line.
R (Repeat)	Repeats the current line.
R<i>n</i>	Repeats the current line for <i>n</i> number of lines.

Relational Operators

>	is greater than
<	is less than
=	is equal to
≠ or <>	is not equal to
>=	is greater than or equal to
<=	is less than or equal to
→	is not greater than
←	is not less than
IS NULL	has a null value
LIKE	searches for a pattern
IN	in a list of values
BETWEEN	within a range of values

AND is implied as the logical operator between columns. Specify OR to override the implied AND. Use NOT to negate IS NULL, LIKE, IN, and BETWEEN operators.