

Commonly used SQL operators in Voyager Prepackaged Access Reports

- **Product:** Voyager
- **Relevant for Installation Type:** Multi-Tenant Direct, Dedicated-Direct, Local, TotalCare

Question

Some commonly used SQL operators in Voyager Prepackaged Access Reports, with a few usage examples.

Answer

An operator is a sign or symbol that specifies the type of calculation to perform within an expression. Access supports a variety of operators. The following provides information about some of the most commonly used operators in Prepackaged Access Reports. For a "Table of operators" see the Microsoft website: <https://support.microsoft.com/en-us/office/table-of-operators-e1bc04d5-8b76-429f-a252-e9223117d6bd>

Note

Having trouble seeing a long BLOB function or other lengthy expression? Put your cursor in the cell you want to view and hit Shift-F2. This opens the contents of the cell in an Access zoom box.

Like

- Wildcard character(s)

Field:	TITLE	MFHD_ID	RECORD_TYPE	LINK
Table:	BIB_TEXT	BIB_MFHD	ELINK_INDEX	ELINK_INDEX
Sort:				
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			"M"	Like "*jstor.org*"
or:				

The above query does pattern matching on the Link field. An asterisk matches any sequence of zero or more characters.

Is Null

- Unknown/nonexistent values (NOT zero! NOT blank!)
- See also: [Use of NULL value in Voyager Prepackaged Access Reports](#)
- Not used for [BLOB queries](#), which return string values; in BLOB queries, use "" to find empty string values

Field:	TITLE	CLASS	DISPLAY_CALL_N	ITEM_ID	
Table:	BIB_TEXT	LCCLASS_VW	MFHD_MASTER	MN lost items su	
Sort:					
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:		Between "BJ" And "BL"		Is Null	
or:					

The above query is an example of an LC Class Shelf List. In addition to showing use of "Is Null" it also shows the use of a [subquery](#) and the "Between" operator.

<>

Not equal to

Field:	COMPONENT_NAME	COMPONENT_NAME_NORM	PREDICT	NOTE
Table:	COMPONENT	COMPONENT	COMPONENT	COMPONENT
Sort:		Ascending		
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			<>"S"	
or:				

The above query excludes closed patterns (PREDICT field value of "S").

The Not operator can also be used (e.g. Not "S")

In () condition

- Reduces need for multiple OR conditions in a SELECT statement
- Example: In("30", "21", "6")

Field:	ITEM_ID	ITEM_STATUS_DESC
Table:	ITEM_STATUS	ITEM_STATUS_TYPE
Sort:		
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Criteria:		In ("Missing", "Lost--Library Applied", "Lost--System Applied", "Damaged", "Withdrawn")
or:		

Note that the above query is also an example where we join fields with different names.

Mid() function

- Extracts a substring from a string
- When using Mid() add one (1) to the byte position (*MARC standard* starts counting from zero, but *MS Access* begins counting from one).
- See also: [Viewing the added and built-in Voyager Prepackaged Access Reports functions](#)
- Example: Mid(NETWORK_NUMBER,8,Len(NETWORK_NUMBER)-7)

Field:	BIB_ID	TITLE	Mid([BIB_TEXT].[FIELD_008],24,1)	BIB_FORMAT
Table:	BIB_TEXT	BIB_TEXT		BIB_TEXT
Sort:				
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:			" "	Like "*"s"
or:				

The above query finds records where the 008/23 - Form of Item - has no value specified:

008 - General Description (Serial)	
Publication Status	c : Continuing resource currently published
Date 1 (yyyy)	1964
Date 2 (yyyy)	9999
Place of Publication	mnu : Minnesota
Frequency	q : Quarterly Includes 4 numbers a year.
Regularity	r : Regular
ISSN Center (OBSOLETE)	1 : United States
Type of Continuing Resource	p : Periodical
Original Item	_ : None of the following
Form of Item	_ : None of the following
Nature of Entire Work	_ : No specified nature of entire work

It also shows using Leader/07 ("BIB_FORMAT")

Leader	
Record Status	c : Corrected or revised
Type of Record	a : Language material
Bibliographic Level	s : Serial
Type of Control	_ : No specific type of control
Encoding Level	_ : Full level
Cataloging Form	a : AACR 2
Linked Record Requirement	_ : Not specified or not applicable

Additional Information

Note

Constructing custom SQL queries by request and troubleshooting unexpected results from customer-created SQL queries falls outside the scope of Support. The above has been posted for informational purposes. [Voyager-l](#) and [Developer Network](#) are useful resources for finding helpful custom SQL or obtaining assistance from peers in troubleshooting custom queries.

- **Article last edited:** 21-Jun-2021