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## Brief overview of string functions in Voyager Prepackaged Access Reports

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

A basic overview of string functions in Voyager Prepackaged Access Reports.

### Answer

*Functions* are small programs that always returns a value based on some calculation, comparison, or evaluation that the Function performs.

Examples:

- Convert data from one type to another (text -> number)
- Financial/math functions (sum)
- Display a field in a specific format (CCur)

[Access SQL Functions](#) can be quickly identified because they always end with parentheses ( ).

Examples:

- Now () returns current date/time.
- RND() returns a random number
- Ucase() returns the uppercase string

There are several *types* of functions:

- Conversion
- Date/Time
- Financial
- Mathematical
- String Manipulation

Although Conversion and Date/Time functions are important to users of Voyager Prepackaged Access Reports, *string functions* define an additional set of parser functions that operate on strings, and may be the most important for users.

## Examples of commonly used string functions

### **Left()**

Left function returns the leftmost n characters of a string.

Left("WebCheatSheet",3) returns "Web"

### **MID()**

Mid function returns a string containing a specified number of characters from a string.

Mid ("access functions",8,4) returns "func"

### **RIGHT()**

Right function returns the rightmost n characters of a string.

Right ("WebCheatSheet",11) returns "CheatSheet"

### **UCase()**

UCase function returns a string in which all letters of an argument have been converted to uppercase.

UCase("Have a nice day") returns "HAVE A NICE DAY"

### **LEN()**

LEN function returns the length of the specific string.

Len ("webcheatsheet.com") returns 17

Len ("hello world") returns 11

### **CCur()**

CCur function displays a field in a specific format (Currency Function)

CCur([8977]\*0.01) returns \$89.77

### **StrConv()**

StrConv function converts a string to upper case, lower case, proper case (i.e., converts first letter of every word in string to upper case), or several other formats.

StrConv("access functions",3) returns "Access Functions"

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### 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.

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## Examples of BIB and MFHD string operations

BIB: Type:

```
SELECT BIB_TEXT.BIB_ID, Mid([bib_format],1,1) AS Expr1
FROM BIB_TEXT
WHERE ((Mid([bib_format],1,1)) Like "a*");
```

BIB: Type of Con Resource:

```
SELECT BIB_TEXT.BIB_ID, Mid([bib_text]![field_008],22,1) AS Expr1
FROM BIB_TEXT
WHERE ((Mid([bib_text]![field_008],22,1))="p");
```

MFHD: Display Call Number:

```
SELECT MFHD_MASTER.MFHD_ID, Left([MFHD_MASTER]![DISPLAY_CALL_NO],50) AS Expr1
FROM MFHD_MASTER;
```

MFHD: Method of Acquisition:

```
SELECT MFHD_MASTER.MFHD_ID, Mid([MFHD_MASTER]![FIELD_008],8,1) AS Expr1
FROM MFHD_MASTER
WHERE ((Mid([MFHD_MASTER]![FIELD_008],8,1))="p");
```

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## Additional Information

There are hundreds of functions included with Access. A good MS Access SQL book will help you identify and use them.

Another good source of help is this Microsoft web site: <https://docs.microsoft.com/en-us/office/yba/language/reference/functions-visual-basic-for-applications>

The [BLOB functions](#) are a special set of functions created by Ex Libris and included in the Reports.MDB file.

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### 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

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troubleshooting custom queries.

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