

Web-Enabled Search Form

Users		Create New
Field Name	Search Criteria	
First Name **	A Z ↓	<input type="text"/>
Last Name **	A Z ↓	<input type="text"/>
Identity Marker		
Login User Name **	A Z ↓	<input type="text"/>
Site Access Mode	A Z ↓	-Select Site Access Mode -
Access Status	A Z ↓	-Select Access Status -
Rows to Fetch Per Page:	<input type="radio"/> 10 <input type="radio"/> 20 <input checked="" type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100	
String Searching Method: **	Must begin with	
Results Sort Order	Order By	
Execute Search Clear All Clear Sort		

Figure 1

Highlighted in Figure 1, is the form **identity marker**.

The primary goal of the **identity marker** is make the user aware of the action associated with the page type. After a user has used the site several times, they will become accustomed to the **"identity marker"** and intuitively know how to use this type of form.

StreamlineDB will consistently generate the appropriate **"identity marker"** per form type. Other form types are: Edit Form, Create a New Record Form, View Only Form and the Display Form, to name a few.

Let's now dissect this form, and understand each element.

We will begin with the “Title Bar”

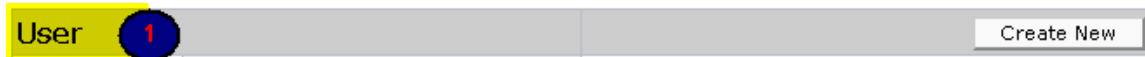


Figure 2

By default, #1 will be the name of the database object you are processing.

That means, if you are processing a table called: **Users**, by default, that's what will be assigned here.

To change this default setting, StreamlineDB has the following feature

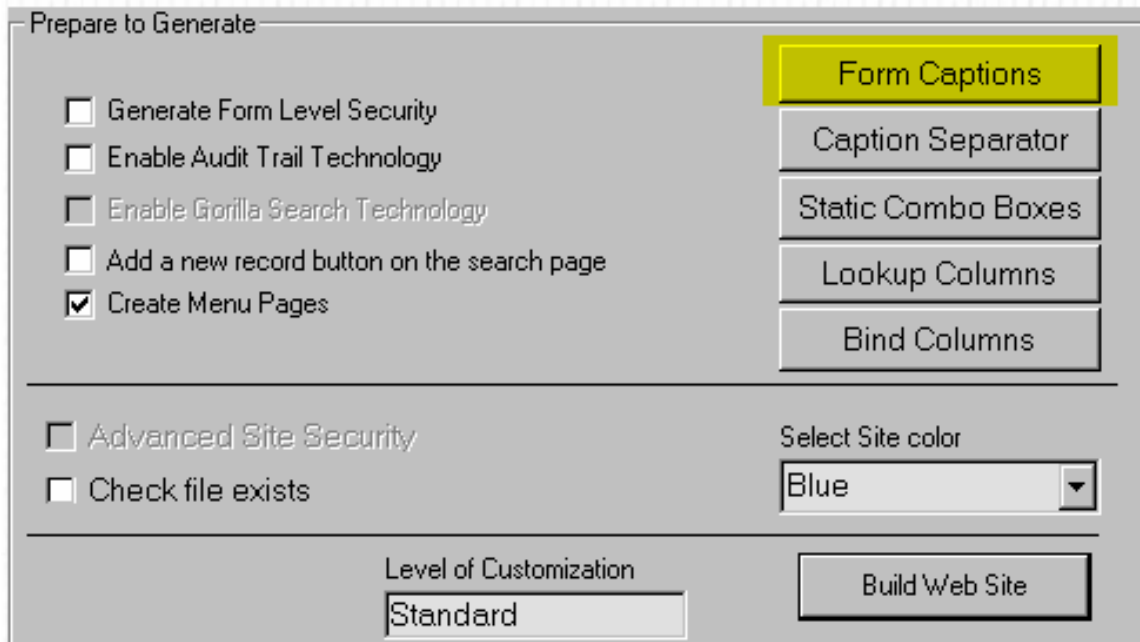


Figure 3

Figure 3, is a screen shot of the seventh and final step of **StreamlineDB**. Highlighted is a button that will allow you to change the “title bar” on a form.

ACTION: Click on button “Form Captions”

RESULT:

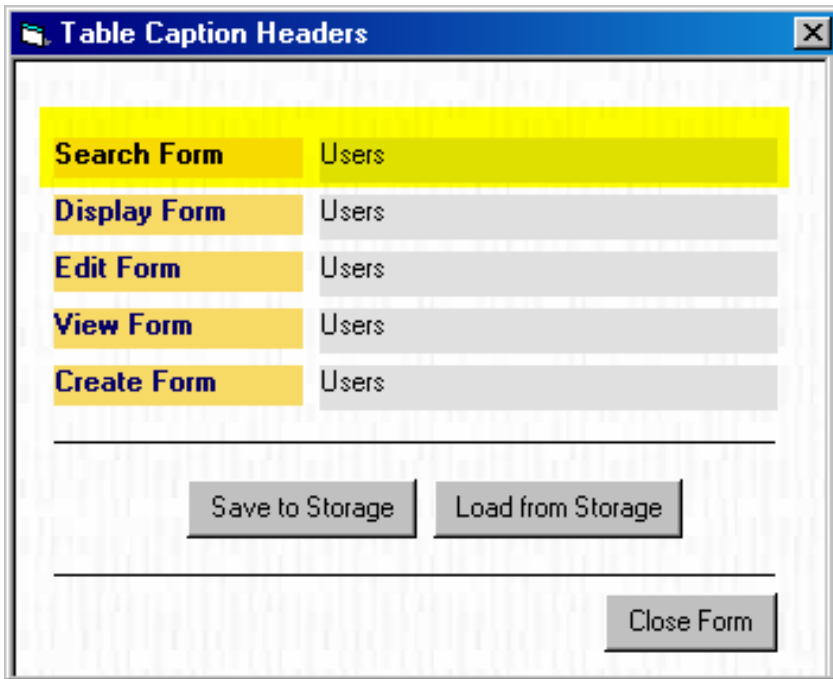


Figure 4

In figure 4, I have highlighted the search forms, title bar caption. By default, the value is the name of the database table you are processing.

To change the value:

ACTION:

Click on the word "Users"

RESULTS:

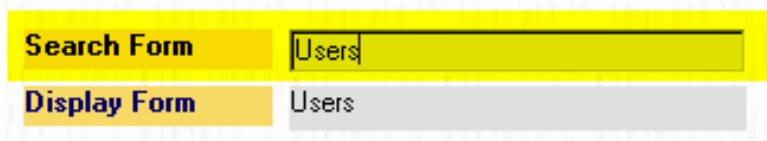


Figure 5

In figure 5, you can see the input type changed into a textbox when you clicked on the word "Users"

ACTION:

Change the contents from "Users" to "Demo"

RESULTS:

Search Form	Demo
Display Form	Users

Figure 6

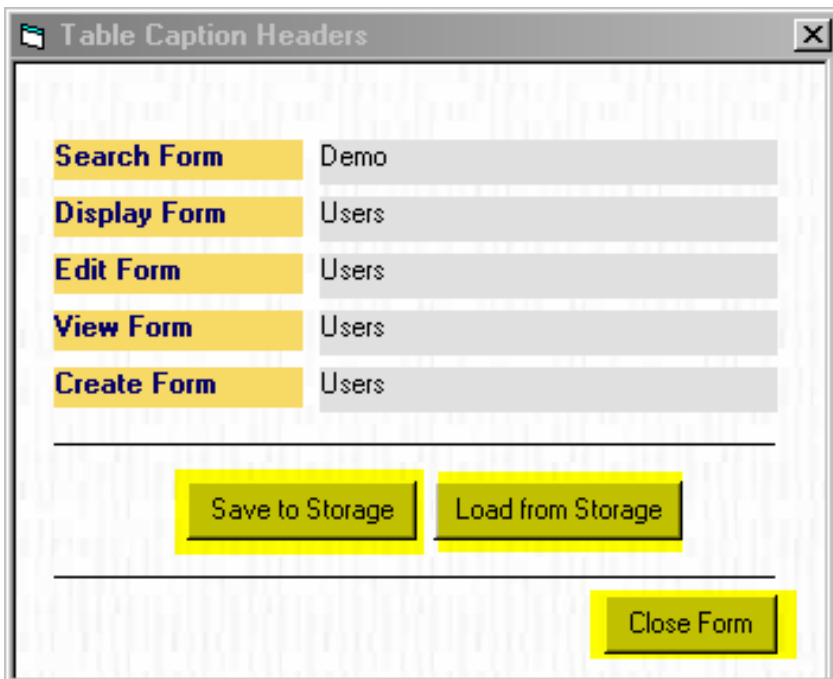


Figure 7

Now is the most important step: save those settings.

Buttons:

- | | |
|-------------------|---|
| Save to Storage | Save the settings you assigned to each form |
| Load from Storage | Retrieve the setting previously saved |
| Close Form | Close Form |

When you save your settings, not only does it allow you to recall them the next time you try and web-enable the same table, but it activates the setting for your current run.

Demo		Create New
Field Name	Search Criteria	
First Name **	A Z ↓	<input type="text"/>
Last Name **	A Z ↓	<input type="text"/>
Login User Name **	A Z ↓	<input type="text"/>
Site Access Mode	A Z ↓	-Select Site Access Mode -
Access Status	A Z ↓	-Select Access Status -
Rows to Fetch Per Page:	<input type="radio"/> 10 <input type="radio"/> 20 <input checked="" type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100	
String Searching Method: **	Must begin with	
Results Sort Order	Order By	
Execute Search		Clear All Clear Sort

Figure 8

Notice the change between **Figure 1** and **Figure 8**.

The other side of the Title Bar is a short-cut button.

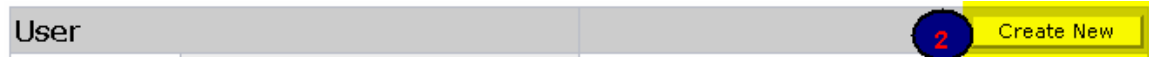


Figure 9

The Create New button is a short-cut to call the “Create Form” for this particular table. This was added to the Search Form because many web site developers want one access path to each data object. The most frequently used form, is the “Search Form.” This request eliminated the need to have two line items in the menu tree.

Let’s return to step seven, and see how to add this button.

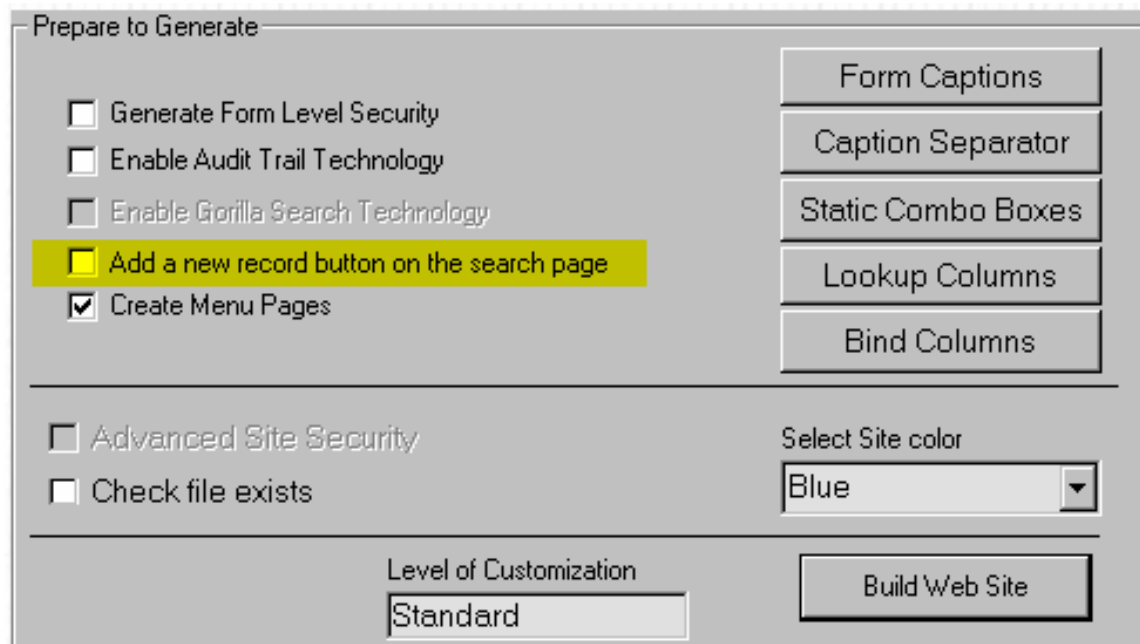


Figure 10

Highlighted in **Figure 10**, is a check box that is used to toggle whether or not you want an “Add New” button appended to the “Title Bar”

If you select the checkbox, you get the “Add New” button as seen in **Figure 9**.

User		Create New
S E A R C H F O R M	Field Name	Search Criteria
	First Name **	<input type="text"/>
	Last Name **	<input type="text"/>
	Login User Name **	<input type="text"/>
	Site Access Mode	<input type="text" value="-Select Site Access Mode -"/>
	Access Status	<input type="text" value="-Select Access Status -"/>
Rows to Fetch Per Page:	<input type="radio"/> 10 <input type="radio"/> 20 <input checked="" type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100	
String Searching Method: **	<input type="text" value="Must begin with"/>	
Results Sort Order	<input type="text" value="Order By"/>	
Execute Search		Clear All Clear Sort

Figure 11

Highlighted in **Figure 11**, are fields we selected in Step 3 of StreamlineDB.

Step 3: This screen builds the SEARCH FORM.

db

List of Available Fields:

- \$_UserName
- \$_pwd
- \$_usertype
- EMail
- Fname
- LName
- status
- RoleID
- dual_auth_code

Parameters

Figure 12

Step 3. StreamlineDB is represented by Figure 12.

At the very top of Figure 12, please notice "Step 3: This screen builds the SEARCH FORM"

The second highlighted area is the set of fields that make up the table you are processing.

After you select the fields you want display on the "SEARCH FORM" you must complete one more task. In Step 5, describe each column as you wish your web site users to read them.

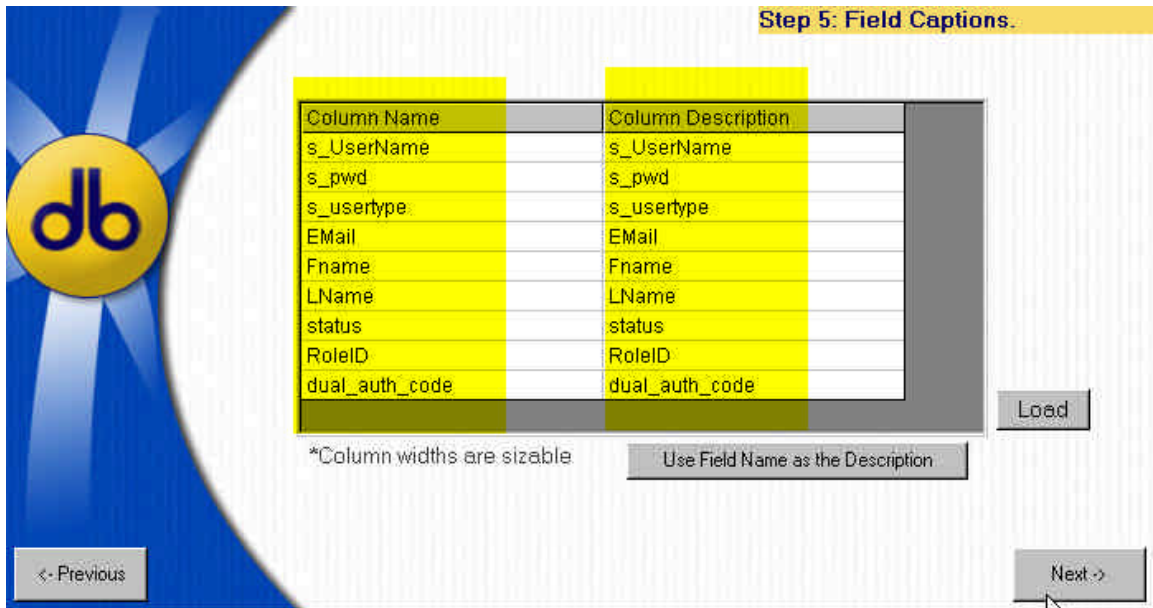


Figure 13

To change the value of any column, select the appropriate column description line.

Column Name	Column Description
s_UserName	s_UserName
s_pwd	s_pwd
s_usertype	s_usertype
EMail	EMail
Fname	Fname
LName	LName
status	status
RoleID	RoleID
dual_auth_code	dual_auth_code

Figure 14

Type in an informative description for each field name, this caption will assist the user of your web site. Remember to use column separators to group column into meaningful partitions.

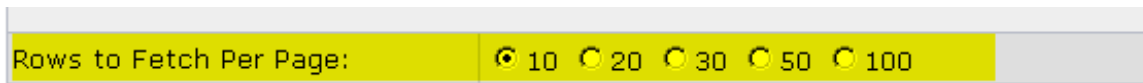


Figure 15

“Rows to Fetch Per Page” limits the amount of viewable records to be displayed on the display form. In **Figure 15**, notice I selected 10.

If your query returns 100 total rows, you will get 10 pages of results. Each page will contain 10 rows.

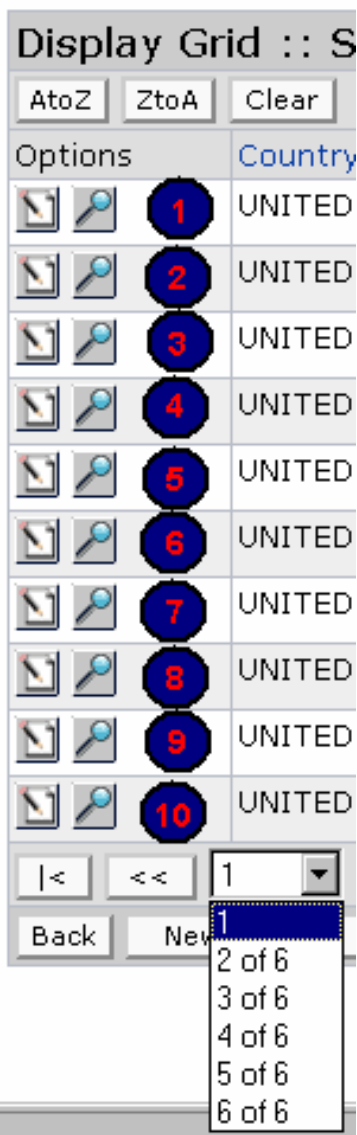


Figure 16

As you can see in **Figure 16**, only 10 rows appeared. Also notice that the VCR control on the display form alerts you that more data is available. Each additional page has 10 rows per page. It is quite possible, that page 6 does not have 10, but it will at least have 1.

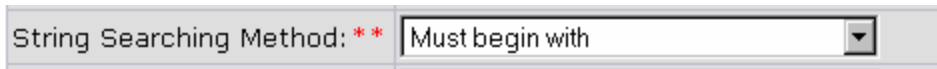


Figure 17

String Searching Methods allows you change the way we search “STRING TYPED” columns. String Typed columns, are text fields, varchar, memo fields to name a few.

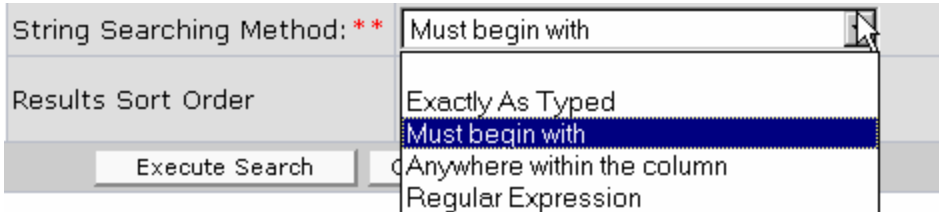


Figure 18

As you can see in Figure 18, there are four possibilities.

- | | |
|-----------------------------------|---|
| Exactly As Typed | User must provide correct spelling |
| Must Begin with | User must only provide First character |
| Anywhere within the column | User can supply any combination of characters |
| Regular Expression | Allow user to apply wildcards |

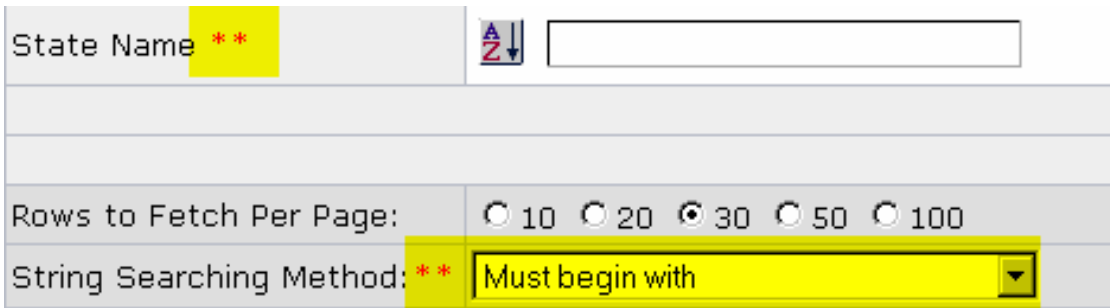


Figure 19

Notice on the top row of Figure 19, I have highlighted the double asterisks. This symbolizes that this column can use the “String Search Method”.

Next I will show how to use each of these String Searching Methods.

Must begin with



Country	 UNITED STATES
State Name **	 a
Rows to Fetch Per Page:	<input type="radio"/> 10 <input type="radio"/> 20 <input checked="" type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100
String Searching Method: **	Must begin with
Results Sort Order	Order By
<input type="button" value="Execute Search"/> <input type="button" value="Clear All"/> <input type="button" value="Clear Sort"/>	

Figure 20

ACTION: type in "a" into State Name box
Select "Must begin with"

RESULTS:





Options	Country	State Name	State Code
	UNITED STATES	Alabama	AL
	UNITED STATES	Alaska	AK
	UNITED STATES	Arizona	AZ
	UNITED STATES	Arkansas	AR

Figure 20.1

Notice that all the State Name's start with the letter 'A'.



Country	 UNITED STATES
State Name **	 al
Rows to Fetch Per Page:	<input type="radio"/> 10 <input type="radio"/> 20 <input checked="" type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100
String Searching Method: **	Must begin with
Results Sort Order	Order By
<input type="button" value="Execute Search"/> <input type="button" value="Clear All"/> <input type="button" value="Clear Sort"/>	

Figure 20.2

ACTION: type in "al" into State Name box
 Select "Must begin with"

RESULTS:



	UNITED STATES	Alabama	AL
	UNITED STATES	Alaska	AK

Figure 20.3

Notice that all the State Name's begin with the 'AL'.

Anywhere within the column



Country	 UNITED STATES
State Name **	 al
Rows to Fetch Per Page:	<input type="radio"/> 10 <input type="radio"/> 20 <input checked="" type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100
String Searching Method: **	Anywhere within the column
Results Sort Order	Order By
<input type="button" value="Execute Search"/> <input type="button" value="Clear All"/> <input type="button" value="Clear Sort"/>	

Figure 21

Notice in Figure 21, I **changed** the “String Searching Method” to “Anywhere within the column.”




	UNITED STATES	Alabama	AL
	UNITED STATES	Alaska	AK
	UNITED STATES	California	CA

Figure 21.1

Notices in figure 21.1, three states have the letter combination “**AL**” somewhere within the spelling of the full word.

	UNITED STATES	California	CA
	UNITED STATES	Colorado	CO
	UNITED STATES	Florida	FL
	UNITED STATES	Georgia	GA
	UNITED STATES	New York	NY
	UNITED STATES	North Carolina	NC
	UNITED STATES	North Dakota	ND
	UNITED STATES	Oregon	OR

Figure 21.2

Notices in figure 21.2, eight states have the letter combination “**OR**” somewhere within the spelling of the full word.

Regular Expression



Country	 UNITED STATES
State Name **	 a%a
Rows to Fetch Per Page:	<input type="radio"/> 10 <input type="radio"/> 20 <input checked="" type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100
String Searching Method: **	Regular Expression
Results Sort Order	Order By
<input type="button" value="Execute Search"/> <input type="button" value="Clear All"/> <input type="button" value="Clear Sort"/>	

Figure 22

Notice in figure 22, I **changed** the “String Searching Method” to “Regular Expression”


State Name **	 a%a
---------------	---

Figure 22.1

As you see in figure 22.1, I typed in a regular expression.

The meaning of this regular expression:

- 'a' = The state name must begin with the letter “a”
- '%' = I don't care what characters follow the 'a'
- 'a' = the last character must be an 'a'

Results:




	UNITED STATES	Alabama	AL
	UNITED STATES	Alaska	AK
	UNITED STATES	Arizona	AZ

Figure 22.2



Figure 22.3

As you see in figure 22.3, I typed in a regular expression.

The meaning of this regular expression:

- '_' = The first two characters of the State Name are unknown, the underscore character is used. In this example, I used two underscore characters
- '[o|a]' = The third character is either an 'o' or 'a'
- '%' = After the 'o' or 'a', I don't care about the remaining characters

Results:

Options	Country	State Name	State Code
	UNITED STATES	Alabama	AL
	UNITED STATES	Alaska	AK
	UNITED STATES	Florida	FL
	UNITED STATES	Georgia	GA
	UNITED STATES	Idaho	ID
	UNITED STATES	Rhode Island	RI
	UNITED STATES	Utah	UT
	UNITED STATES	Wyoming	WY

Figure 22.4

As you can see in figure 22.4, the third character is either an 'A' or 'O' and the first two character are all different.

Here you can see the power of regular expressions.

Results Sort Order






Country		UNITED STATES
State Name **		
Rows to Fetch Per Page:	<input type="radio"/> 10 <input type="radio"/> 20 <input checked="" type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100	
String Searching Method: **	Must begin with	
Results Sort Order	Order By	

Figure 23

Arranging the results in the correct sort order is easily prepared with the Search Form. Just click on any columns "**Sort Order Button**" to activate the rule.

The "**Sort Order Buttons**" have three states. This means, if you click the button once, it changes to another image, if you click it again, the image changes again, and if you click the image again, the process starts all over.

Sort Order Button	
	by default, this image is displayed. If you see this image, you did not select that column to be added into the sort order request.
	Here I have selected the column to sort (A to Z). Notice the button is in a pressed down state.
	Here I have selected the column to be sorted (Z to A). Notice the button is in a pressed down state.

Let's see what happens to the "**Results Sort Order Combo Box**" when you click on a "**Sort Order Button**."

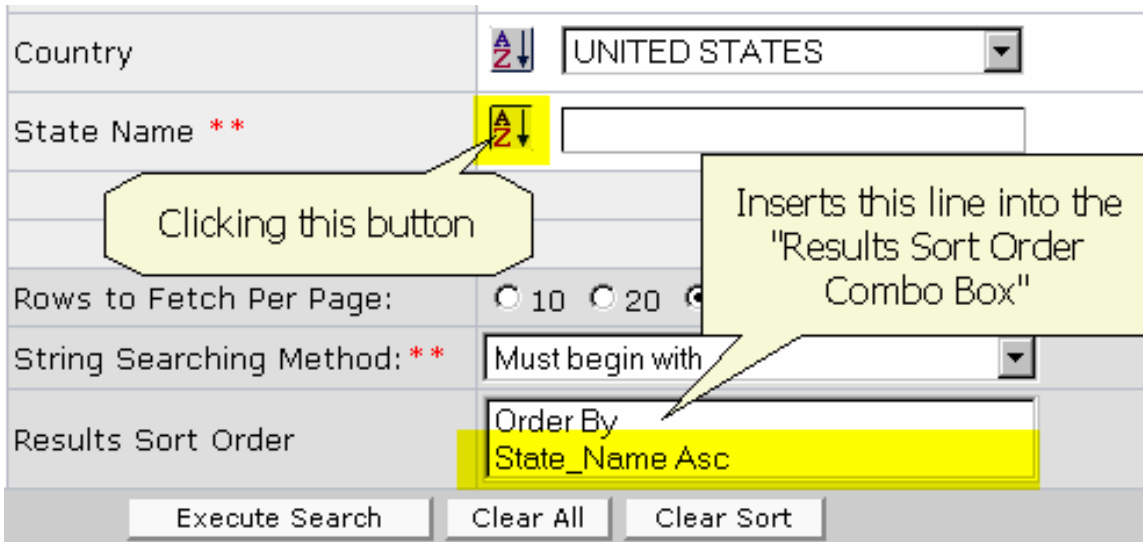


Figure 23.1

As you can see in **Figure 23.1**, I click on the State Name's "A to Z" button. The **"Results Sort Order Combo Box"** records the request.

If I select the same button again, please notice the change

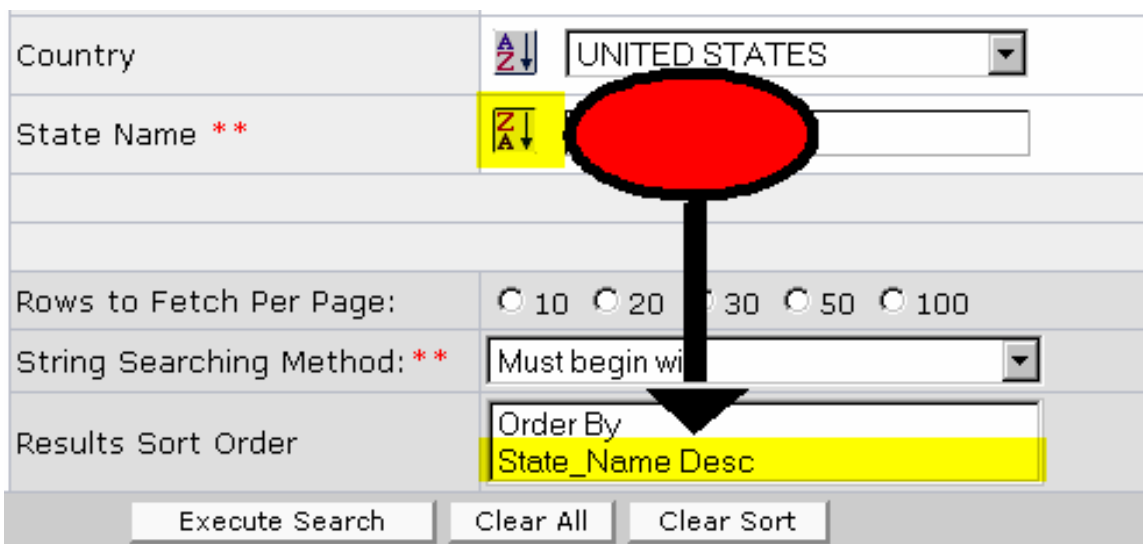


Figure 23.2

Notice in Figure 23.2, I selected the "Sort Order Button" (Z to A), and now the **"Results Sort Order Combo Box"** has changed. Please notice **"Desc,"** in **Figure 23.1**, it was **"Asc"**

The format of the **"Results Sort Order Combo Box"** is

```
Field_name Direction
Field_Name := Field from table in database
Direction := Desc | Asc
Desc := Descending
Asc := Ascending
```

State Master Create New

Field Name	Search Criteria
Country	UNITED STATES
State Name **	
Rows to Fetch Per Page:	<input checked="" type="radio"/> 10 <input type="radio"/> 20 <input type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100
String Searching Method: **	Must begin with
Results Sort Order	Order By State_Name Asc

Execute Search
Clear All
Clear Sort

Figure 23.3

	UNITED STATES	Alabama	AL
	UNITED STATES	Alaska	AK
	UNITED STATES	Arizona	AZ
	UNITED STATES	Arkansas	AR
	UNITED STATES	California	CA
	UNITED STATES	Colorado	CO
	UNITED STATES	Connecticut	CT
	UNITED STATES	Delaware	DE
	UNITED STATES	District of Columbia	DC
	UNITED STATES	Florida	FL

|< << 1 >> >|

Back New Search

Figure 23.4

Notice in **Figure 23.3** I setup the search to list all states, where the country = 'United States' and set the order on State_Name to be ascending.

Notice in **Figure 23.4** the results. Let's return to the search form and change the sort order by Ascending to Descending.

State Master Create New

Field Name	Search Criteria
Country	UNITED STATES
State Name **	
Rows to Fetch Per Page:	<input checked="" type="radio"/> 10 <input type="radio"/> 20 <input type="radio"/> 30 <input type="radio"/> 50 <input type="radio"/> 100
String Searching Method: **	Must begin with
Results Sort Order	Order By State_Name Desc

Figure 23.5

Notice I changed the sort order from Ascending to Descending.

Options	Country	State Name	State Code
	UNITED STATES	Wyoming	WY
	UNITED STATES	Wisconsin	WI
	UNITED STATES	West Virginia	WV
	UNITED STATES	Washington	WA
	UNITED STATES	Virginia	VA
	UNITED STATES	Vermont	VT
	UNITED STATES	Utah	UT
	UNITED STATES	Texas	TX
	UNITED STATES	Tennessee	TN
	UNITED STATES	South Dakota	SD

Figure 23.6

Compare Figure 23.6 with Figure 23.4. Do you see the difference?

If you have any questions about this document, please send me an email:
scottj@streamlinetech.net