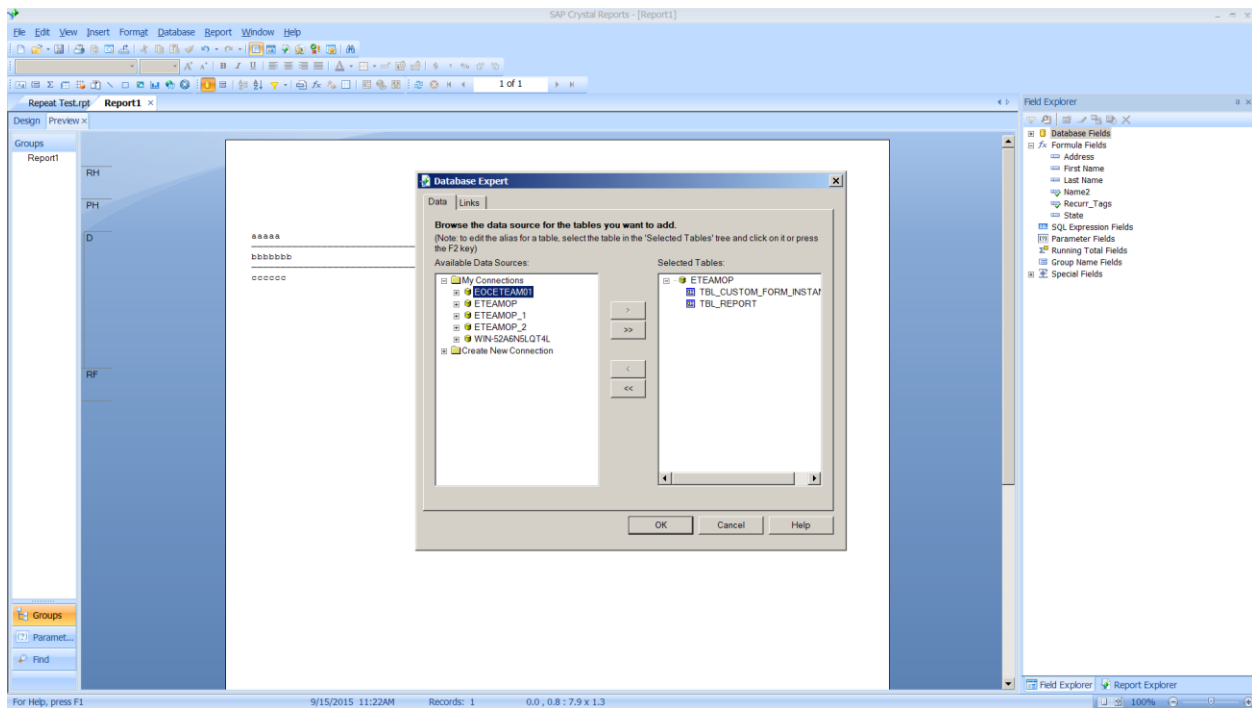
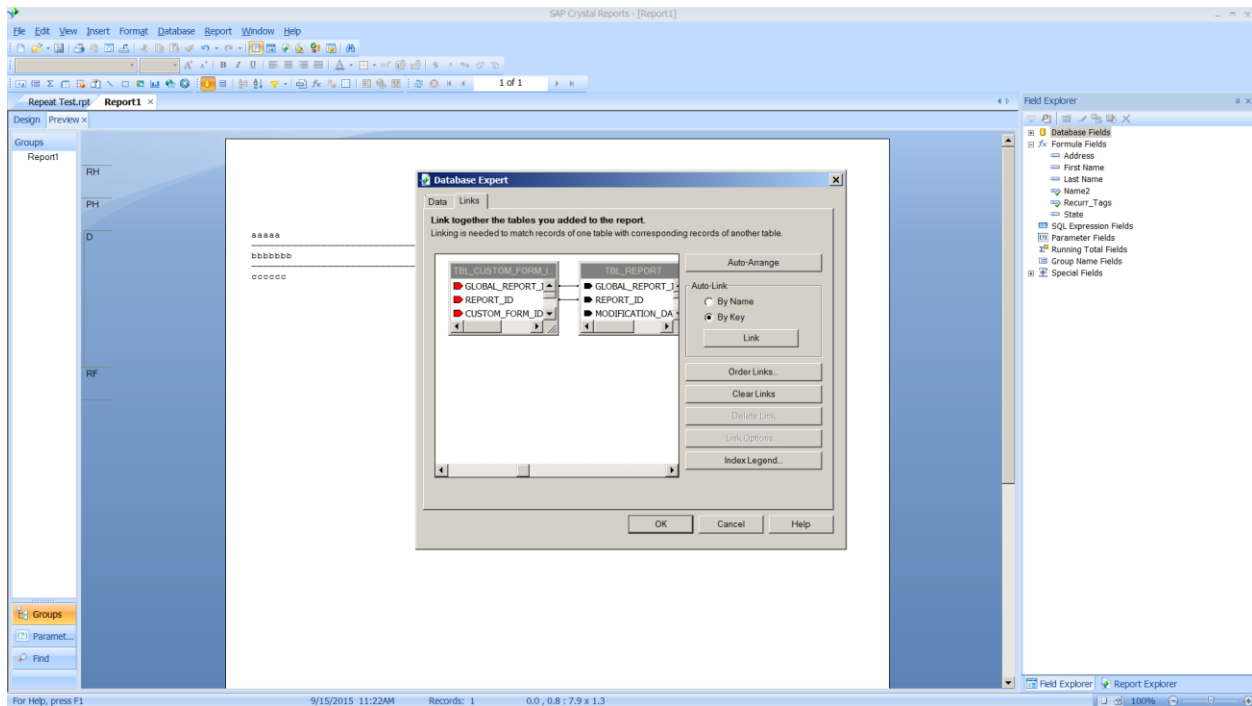


How to Pull Data from E Team Custom Forms in Crystal Reports (Alternate Method)

Pulling data from custom forms is sometimes a painful process. When a single custom form is being used for reports, the stored procedure is usually quite sufficient. However, if you plan to pull data from multiple reports, this is an effective way to build the reports and pull the data with an ODBC connection.

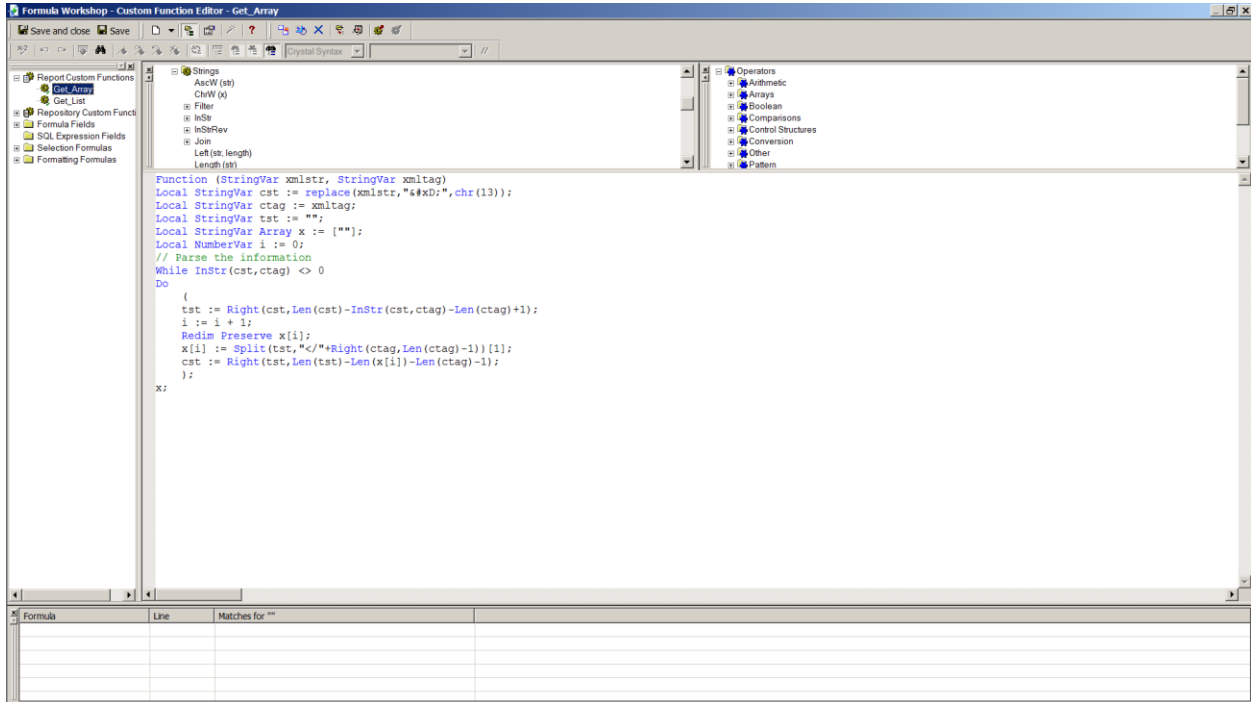
1. When you begin, you will create a new Report from Blank, select TBL_CUSTOM_FORM_INSTANCE, TBL_REPORT and create a new join between GLOBAL_REPORT_ID and GLOBAL_REPORT_ID and also REPORT_ID and REPORT_ID





2. First you will create a formula called Get_Array. The following script will be added to Report Custom Functions in the Formula Workshop: (Copy Exactly Below)

```
Function (StringVar xmlstr, StringVar xmltag)
Local StringVar cst := replace(xmlstr,"&#xD;",chr(13));
Local StringVar ctag := xmltag;
Local StringVar tst := "";
Local StringVar Array x := [""];
Local NumberVar i := 0;
// Parse the information
While InStr(cst,ctag) <> 0
Do
(
tst := Right(cst,Len(cst)-InStr(cst,ctag)-Len(ctag)+1);
i := i + 1;
Redim Preserve x[i];
x[i] := Split(tst,"</"+Right(ctag,Len(ctag)-1))[1];
cst := Right(tst,Len(tst)-Len(x[i])-Len(ctag)-1);
);
x;
```

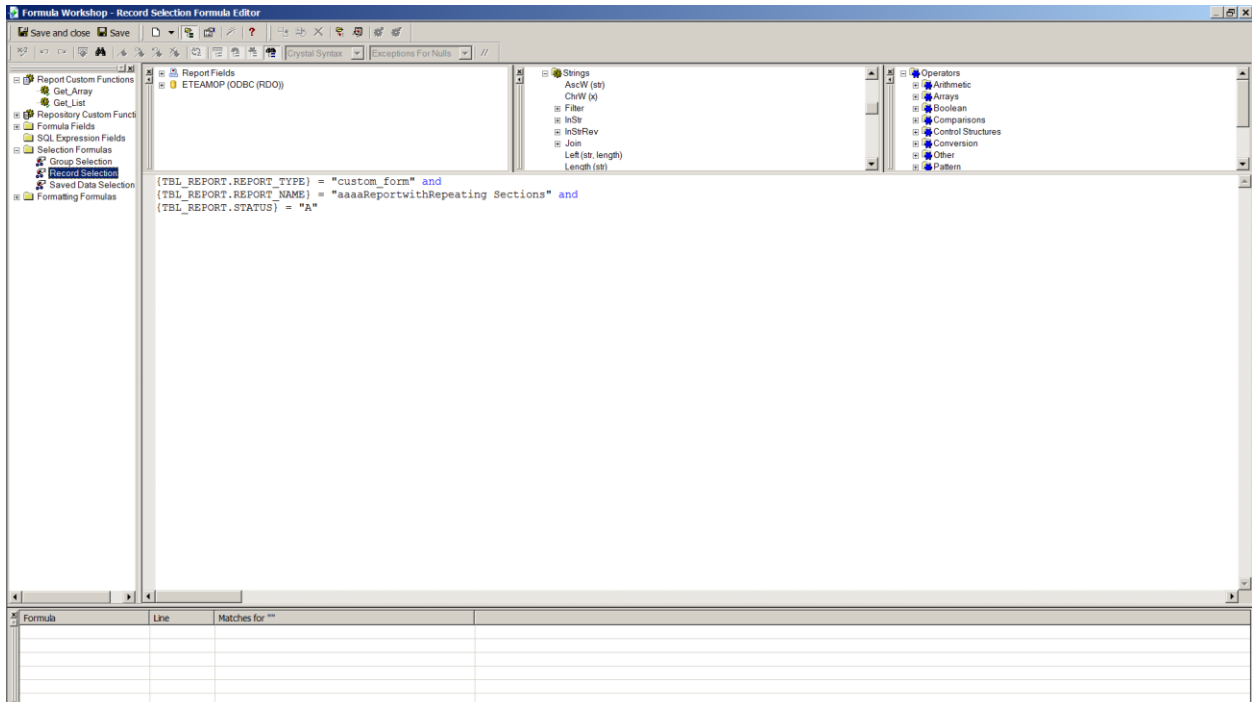


3. You must now create a Record Selection Formula to specify the Report Type, The Report Name and only Active Forms:

```

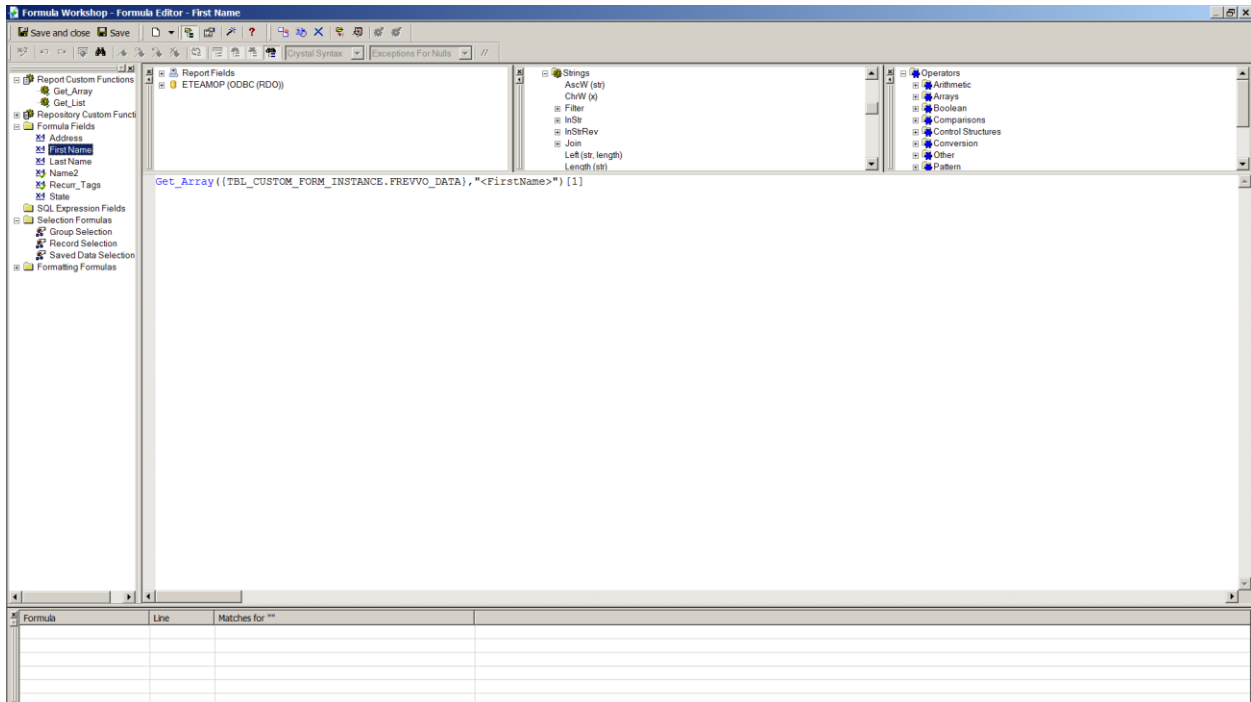
{TBL_REPORT.REPORT_TYPE} = "custom_form" and
{TBL_REPORT.REPORT_NAME} = "Agency_Sitrep" and
{TBL_REPORT.STATUS} = "A"

```



- Once you have created the Get_Array formula, you need to now create a formula for each field you want to add to your report;

Get_Array({TBL_CUSTOM_FORM_INSTANCE.FREVVO_DATA},"<name of field from XML>")[1]



- To get the field tags, you can either use the Field Name from the Custom Form, or you can pull a copy of the custom form from the database table TBL_CUSTOM_FORM_INSTANCE.FREVVO_DATA

```
<?xml version="1.0" encoding="UTF-8"?><ns:form
xmlns:ns="http://www.frevvo.com/schemas/_WcsoQFmyEd2ftdtPlqwYxg"
name="CopyofCopyofAgencySitrep"><Message113>Los Angeles County Agency
Situation Report</Message113><Agency>Agricultural Commissioner/Weights and
Measures</Agency><OverallSituation>Assistance
Required</OverallSituation><County>Los Angeles
County</County><City>Arcadia</City><State>CA</State>
```

XML is arranged where the Field Name is enclosed in Pointy brackets.

<FIELD NAME>
 The Beginning of the field is
 <FIELD NAME>
 and the end of the field is
 </FIELD NAME>
 The Highlighted area is the actual data.
 Arcadia

- When utilizing dynamic parameters, only data from CF View Fields or from the TBL_REPORT can be used. This will ordinarily be entered though the Select Expert (funnel Thingy)

```
{TBL_CUSTOM_FORM_INSTANCE.CUSTOM_FORM_V1} = {?Pm-
V_EVENT.EVENT_NAME}
```

7. Repeating Sections: First you must have a Custom Form with a repeating section.

8. Create a Report Custom Function called Get_List. Use the Code Below:

```
Function (NumberVar totcol, StringVar collen, StringVar xmlstr, StringVar grptag, StringVar
xmltags)

Local StringVar Array l := Split(collen, "^");           // Parse lengh of each column
Local StringVar Array x := Split(xmltags, "~");         // Parse tag for each column
Local StringVar Array m := Get_Array(xmlstr, grptag);    // Array - data for all sections
Local NumberVar Array n := [0];                        // Number of lines used for each section
Local StringVar Array t := [""];                       // Returned list of all sections
Local StringVar Array w := [""];                       // Data for each section
Local NumberVar i := 0;
Local NumberVar j := 0;
Local NumberVar k := 0;
Local NumberVar c_len;
Local NumberVar c_flag;
Local NumberVar Array s_pos := [1];                   // Starting positions of each element of
section data
Local StringVar tmp;
Local NumberVar strlen;

// Parse the information

Local NumberVar m_array := UBound(m);                 // Number of elements in section array

If m_array > 0 then
  (
  For i := 1 To m_array Do
    (
    For j := 1 to totcol Do
      (
      c_len := ToNumber(l[j]);
      Redim Preserve w[j];
      Redim Preserve n[j];
      n[j] := 1;
      Redim Preserve s_pos[j];
      s_pos[j] := 1;
      Local StringVar st := Get_Array(m[i], x[j])[1];
      If st <> "" then
        (
```

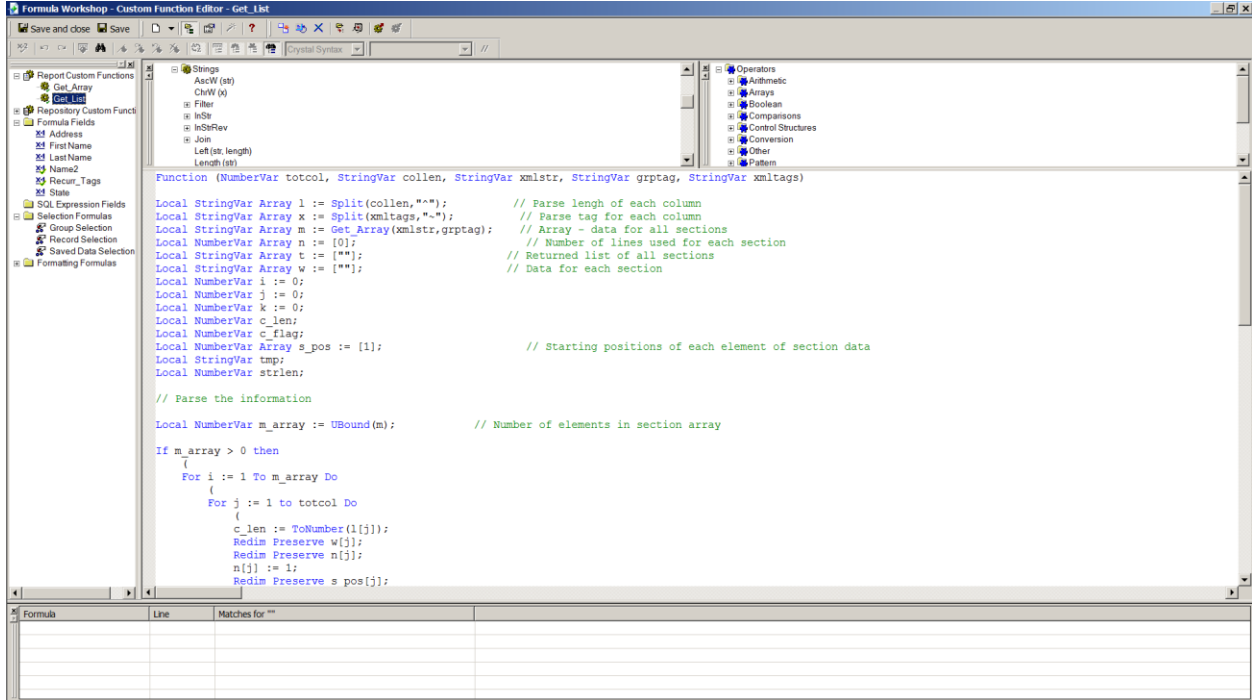
```

        w[j] := Replace(st,Chr(10),Chr(32));
        n[j] := Ceiling(Len(w[j])/c_len)
    )
    else
    (
        w[j] := ReplicateString(Chr(32), c_len);
        n[j] := 1
    );
);
Local NumberVar n_line := Maximum(n); // n_line --> Number of lines needed for
// each section (without word wrapping)

Redim Preserve t[i];
t[i] := "";
j := 1;
c_flag := 0;
While j <= n_line or c_flag > 0 Do // Get content of each line (m_flag is > 0
// if more content is to be presented.
(
    c_flag := 0;
    For k := 1 to totcol Do
    (
        c_len := ToNumber(l[k]);
        tmp := Mid(w[k],s_pos[k], c_len);
        strlen := Len(tmp);
// Perform word wrapping
        If strlen = c_len and Instr(tmp, " ") <> 0 and Right(tmp,1)<>" " and
Mid(w[k],s_pos[k]+c_len,1)<>" " then
        (
            Local NumberVar t_pos := InStrRev(tmp, " ");
            tmp := Left(tmp,t_pos-1);
            strlen := Len(tmp);
// Figure out the starting post should "word wrap" is performed.
            s_pos[k] := s_pos[k] + strlen + 1
        )
        else If Mid(w[k],s_pos[k]+c_len,1)=" " then s_pos[k] := s_pos[k] + strlen + 1
        else s_pos[k] := s_pos[k] + strlen;
        t[i] := t[i] + tmp;
        If strlen < c_len then
            t[i] := t[i] + ReplicateString(Chr(32),c_len - strlen + 2)
        else
            t[i] := t[i] + ReplicateString(Chr(32), 2);
        If s_pos[k] <= Len(w[k]) then c_flag := c_flag + 1;
    );
    t[i] := t[i] + Chr(10);
    j := j + 1;
);
);
);

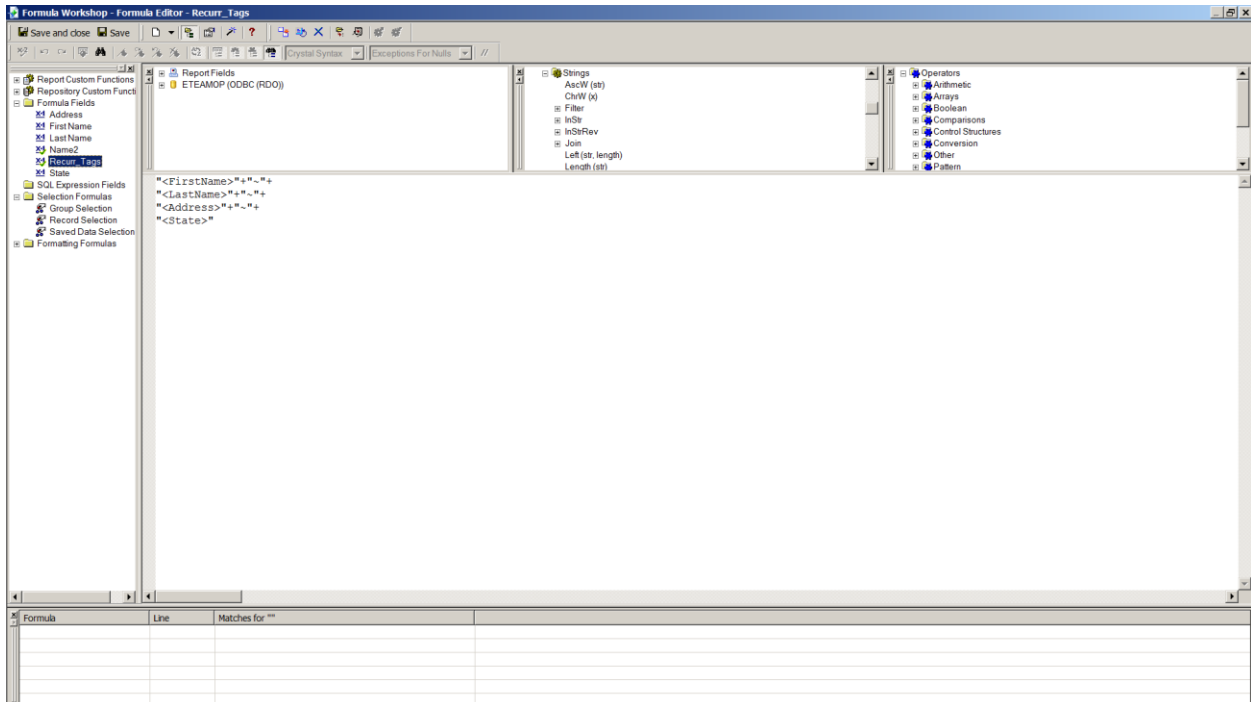
```

t;



- Now create a formula field for the item or items you want to report from the repeating section. My example is for 4 elements, FirstName, LastName, Address, State and it is called Recurr_Tags:

```
"<FirstName>"+"~"+
"<LastName>"+"~"+
"<Address>"+"~"+
"<State>"
```

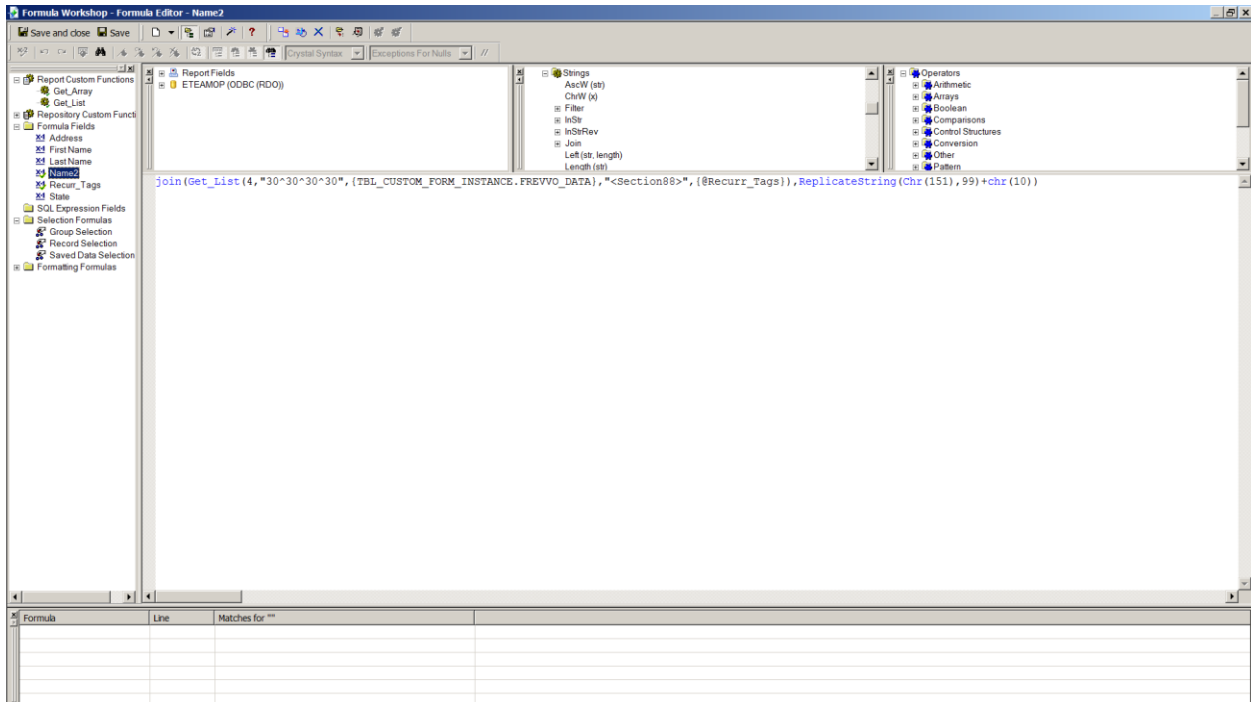



10. Now create the formula for the actual data going into the report. I named mine Name2.

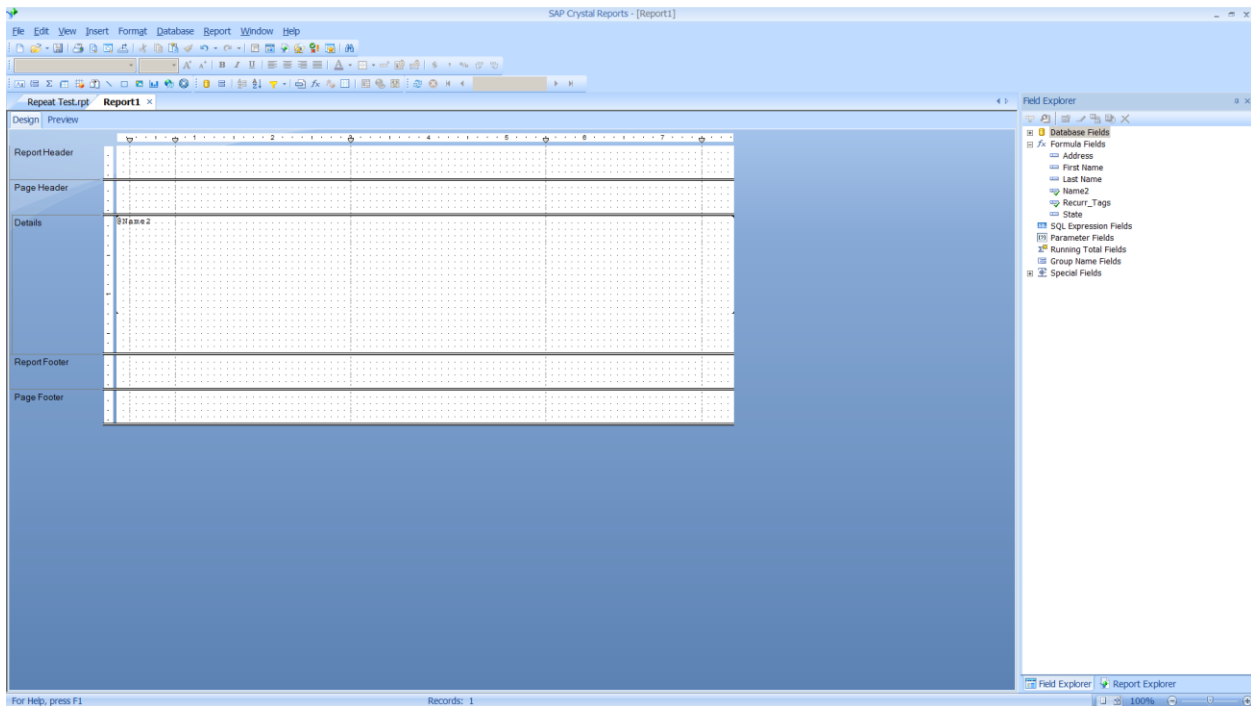
```
join(Get_List(4,"30^30^30^30",{TBL_CUSTOM_FORM_INSTANCE.FREVVO_DATA},"<Section88>",{@Recurr_Tags}),ReplicateString(Chr(151),99)+chr(10))
```

The 4 after Get is the number of items in the repeating field you want to get.
 The 30^30^ is the size you are giving the field length for each field
 Section 88 is where my repeating section is on the form
 Chr(151) is the code for a line
 99 is the character length of the string
 Chr(10) is a character return to start a new line

My example is done with Courier New font at 9. The font will impact the look of the output, and the fields will need to be adjusted for that for proper look.



11. Now place your formula field onto the report page and refresh to see your data



HOW TO PULL DATA ON E TEAM CUSTOMER FORMS IN CRYSTAL REPORTS

