OutputToStyling

Q: How can I output data to a web page and make it nice to read ?

R: Data can be inserted statically in a web page thanks to the **OutputTo** action which will export the data to a static HTML page. The exported output shall contain predefined classes which can help producing nice effects. See the examples below.

For all the examples we will use the *EmployeesList* query.
The query embeds html tags to allow browsing from the last column rapidly to the employee's manager.

```
SELECT
        '<a id="' || "Employees"."EmployeeID" || '">' || "Employees"."LastName" || '</a>' AS "Last name"
        , "Employees"."FirstName" AS "First name"
        , "Employees"."BirthDate" AS "Birth"
        , "Employees"."Extension" AS "Phone"
        , "Employees"."HomePhone" AS "Home phone"
        , "Employees"."Title"
        , '<a href="#' || "ReportingTo"."EmployeeID" || '">' || "ReportingTo"."LastName" || '</a>' AS "Manager"
FROM
        { OJ "Employees" AS "ReportingTo" RIGHT OUTER JOIN "Employees" ON "ReportingTo"."EmployeeID" = "Employees"."ReportsTo" }
```

based on the *Employees* table:

- Employees table

Fields	Field Type	Primary
Address	Text	
BirthDate	Date/Time	
City	Text	
Country	Text	
Extension	Integer	
FirstName	Text	
HireDate	Date/Time	
HomePhone	Text	
LastName	Text	
Notes	Text	
Photo	Text	
PostalCode	Text	
Region	Text	
ReportsTo	BigInt	
Title	Text	
TitleOfCourtesy	Text	
EmployeeID	BigInt	Y

The data will be generated by next statement:

```
        DoCmd.OutputTo(acOutputQuery, "EmployeesList", acFormatHtml, sOutputFile, False, sTemplateFile, acUTF8Encoding)
```

The template file contains nothing else but:

```
<!DOCTYPE html>
<html>
 <head>
  <title><!--Template_Title--></title>
  <link rel="stylesheet" type="text/css" href="styleX.css">
 </head>
 <body>
  <!--Template_Body-->
 </body>
</html>
```

Only the content of the css stylesheet will vary in next examples.

Raw data without styling effects

Stylesheet

The stylesheet is empty.

Result

EmployeesList

Last name	First name	Birth	Phone	Home phone	Title	Manager
Davolio	Nancy	08/12/1968	5467	(206) 555-9857	Sales Representative	Fuller
Fuller	Andrew	19/02/1952	3457	(206) 555-9482	Vice President, Sales	
Leverling	Janet	30/08/1963	3355	(206) 555-3412	Sales Representative	Fuller
Peacock	Margaret	19/09/1958	5176	(206) 555-8122	Sales Representative	Fuller
Buchanan	Steven	04/03/1955	3453	(71) 555-4848	Sales Manager	Fuller
Suyama	Michael	02/07/1963	428	(71) 555-7773	Sales Representative	Buchanan
King	Robert	29/05/1960	465	(71) 555-5598	Sales Representative	Buchanan
Callahan	Laura	09/01/1958	2344	(206) 555-1189	Inside Sales Coordinator	Fuller
Dodsworth	Anne	02/07/1969	452	(71) 555-4444	Sales Representative	Buchanan

Specify the table and the table caption

The **.dbdatatable** class designates the whole table. Use it to avoid confusion when other tables are present in the template file.

Stylesheet

```
body {
    font-size: 100%;
}
.dbdatatable {
  padding: 0;
  margin: 0;
  border-collapse: collapse;
  border: 1px solid #333;
  font-family: "Trebuchet MS", Verdana, Arial, Helvetica, sans-serif;
  font-size: 0.9em;
  color: #000;
  background: #bcd0e4;
}
.dbdatatable caption {
  caption-side: bottom;
  font-size: 0.9em;
  font-style: italic;
  text-align: right;
  padding: 0.5em 0;
}
```

Result

Last name	First name	Birth	Phone	Home phone	Title	Manager
Davolio	Nancy	08/12/1968	5467	(206) 555-9857	Sales Representative	Fuller
Fuller	Andrew	19/02/1952	3457	(206) 555-9482	Vice President, Sales	
Leverling	Janet	30/08/1963	3355	(206) 555-3412	Sales Representative	Fuller
Peacock	Margaret	19/09/1958	5176	(206) 555-8122	Sales Representative	Fuller
Buchanan	Steven	04/03/1955	3453	(71) 555-4848	Sales Manager	Fuller
Suyama	Michael	02/07/1963	428	(71) 555-7773	Sales Representative	Buchanan
King	Robert	29/05/1960	465	(71) 555-5598	Sales Representative	Buchanan
Callahan	Laura	09/01/1958	2344	(206) 555-1189	Inside Sales Coordinator	Fuller
Dodsworth	Anne	02/07/1969	452	(71) 555-4444	Sales Representative	Buchanan

EmployeesList

Specify the table cells

Both the header row and data cells receive in the example the same styles. The bold character of table header cells is implicit.

Stylesheet

Same as before + ...

```
.dbdatatable th, .dbdatatable td {
  border: 1px dotted #666;
  padding: 0.5em;
  text-align: left;
  color: #632a39;
  vertical-align: middle;
}
```

Result

Last name	First name	Birth	Phone	Home phone	Title	Manager
Davolio	Nancy	08/12/1968	5467	(206) 555-9857	Sales Representative	Fuller
Fuller	Andrew	19/02/1952	3457	(206) 555-9482	Vice President, Sales	
Leverling	Janet	30/08/1963	3355	(206) 555-3412	Sales Representative	Fuller
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Callahan	Laura	09/01/1958	2344	(206) 555-1189	Inside Sales Coordinator	Fuller
Dodsworth	Anne	02/07/1969	452	(71) 555-4444	Sales Representative	Buchanan

EmployeesList

Specify the header row

Uppercases, white text.

Stylesheet

Same as before + ...

```
.dbdatatable th {
  color: #fff;
  background-color: #8fadcc;
  text-transform: uppercase;
  background-color: #7d98b3;
  border-right: 1px dotted #666;
  text-align: center;
}
```

Result

LAST NAME	FIRST NAME	BIRTH	PHONE	HOME PHONE	TITLE	MANAGER
Davolio	Nancy	08/12/1968	5467	(206) 555-9857	Sales Representative	Fuller
Fuller	Andrew	19/02/1952	3457	(206) 555-9482	Vice President, Sales	
Leverling	Janet	30/08/1963	3355	(206) 555-3412	Sales Representative	Fuller
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EmployeesList

Specify alternate colors for the table rows

Use the **.odd** and/or **.even** classes to specify different styles for the table rows

Stylesheet

The same as before + ...

```
.dbdatatable tr.odd th, .dbdatatable tr.odd td {
  background-color: #fff;
}
```

Result

LAST NAME	FIRST NAME	BIRTH	PHONE	HOME PHONE	TITLE	MANAGER
Davolio	Nancy	08/12/1968	5467	(206) 555-9857	Sales Representative	Fuller
Fuller	Andrew	19/02/1952	3457	(206) 555-9482	Vice President, Sales	
Leverling	Janet	30/08/1963	3355	(206) 555-3412	Sales Representative	Fuller
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EmployeesList

Specify a row appearance change when mouse hovers it

Stylesheet

The same as before + ...

```
.dbdatatable tr:hover td {
  background-color: #632a2a;
  color: #fff;
}
.dbdatatable tr:hover a {
  background-color: #632a2a;
  color: #fff;
}
```

Result

LAST NAME	FIRST NAME	BIRTH	PHONE	HOME PHONE	TITLE	MANAGER
Davolio	Nancy	08/12/1968	5467	(206) 555-9857	Sales Representative	Fuller
Fuller	Andrew	19/02/1952	3457	(206) 555-9482	Vice President, Sales	
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EmployeesList

Specify cells depending on their content or type

Use the **.char**, **.numeric**, **.bool**, **.date**, **.negative** and **.null** classes.

Stylesheet

Same as before + ...

```
.dbdatatable td.numeric {
        text-align: right;
}
.dbdatatable td.negative {
        color: red;
}
.dbdatatable td.null {
        background-color: red;
}
```

Result

LAST NAME	FIRST NAME	BIRTH	PHONE	HOME PHONE	TITLE	MANAGER
Davolio	Nancy	08/12/1968	5467	(206) 555-9857	Sales Representative	Fuller
Fuller	Andrew	19/02/1952	3457	(206) 555-9482	Vice President, Sales	
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EmployeesList

Emphasize first and last row borders

Use the **.firstrow**, **.lastrow**, **.firstcol** and/or **.lastcol** classes to mark their borders specifically

Stylesheet

All Together

```
body {
    font-size: 100%;
}
.dbdatatable {
  padding: 0;
  margin: 0;
  border-collapse: collapse;
  border: 1px solid #333;
  font-family: "Trebuchet MS", Verdana, Arial, Helvetica, sans-serif;
  font-size: 0.9em;
  color: #000;
  background: #bcd0e4;
}
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  caption-side: bottom;
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  border: 1px dotted #666;
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  text-align: left;
  color: #632a39;
  vertical-align: middle;
}
.dbdatatable th {
  color: #fff;
  background-color: #8fadcc;
  text-transform: uppercase;
  background-color: #7d98b3;
  border-right: 1px dotted #666;
  text-align: center;
}
.dbdatatable tr.odd th, .dbdatatable tr.odd td {
  background-color: #fff;
}
.dbdatatable tr:hover td {<html>
<iframe style="background-color:#ffffff; border-color:#ffffff; border:none;" width="1000" height="380" frameborder="0" scrolling="yes" src
</html>
  background-color: #632a2a;
  color: #fff;
}
.dbdatatable tr:hover a {
  background-color: #632a2a;
  color: #fff;
}
.dbdatatable td.numeric {
    text-align: right;
}
.dbdatatable td.negative {
    color: red;
}
.dbdatatable td.null {
    background-color: red;
}
.dbdatatable tr.firstrow {
    border-top: 3px solid #444;
```

```
}
.dbdatatable tr.lastrow {
        border-bottom: 3px solid #444;
}
```

Result

LAST NAME	FIRST NAME	BIRTH	PHONE	HOME PHONE	TITLE	MANAGER
Davolio	Nancy	08/12/1968	5467	(206) 555-9857	Sales Representative	Fuller
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