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Web Building

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Web Building - Fetching Data with SQL

Building a web site from scratch.   **Part X**: Fetching data with SQL.

What We Will Do

In this chapter we will:

- Create server pages

Server Running PHP and MySQL

```php
<?php
header("Access-Control-Allow-Origin: *");
header("Content-Type: application/json; charset=UTF-8");

$conn = new mysqli("myServer", "myUser", "myPassword", "Northwind");

$result = $conn->query("SELECT CompanyName, City, Country FROM
Customers");

$outp = "[";
while($rs = $result->fetch_array(MYSQLI_ASSOC)) {
    if ($outp != "[") {$outp .= ",";}
    $outp .= '{"Name":"'  . $rs["CompanyName"] . '",';
    $outp .= '"City":"'   . $rs["City"]        . '",';
    $outp .= '"Country":"'. $rs["Country"]     . '"}';
}
$outp .="]";

$conn->close();

echo($outp);
?>
```

Cross-Site HTTP Requests

Requests for data from a different server (than the requesting page), are called **cross-site** HTTP requests.

Cross-site requests are very common on the web. Many pages load css, images, or scripts from different servers.

In modern browsers, cross-site HTTP requests **from scripts** are restricted to **same site** for security reasons.

The following line, in the PHP example above, has been added to allow access to the page from a cross-site.

```
header("Access-Control-Allow-Origin: *");
```

Server Running PHP and MS Access

```php
<?php
header("Access-Control-Allow-Origin: *");
header("Content-Type: application/json; charset=ISO-8859-1");

$conn = new COM("ADODB.Connection");
$conn->open("PROVIDER=Microsoft.Jet.OLEDB.4.0;Data
Source=Northwind.mdb");

$rs = $conn->execute("SELECT CompanyName, City, Country FROM
Customers");

$outp = "[";
while (!$rs->EOF) {
    if ($outp != "[") {$outp .= ",";}
    $outp .= '{"Name":"'   . $rs["CompanyName"] . '",';
    $outp .= '"City":"'    . $rs["City"]        . '",';
    $outp .= '"Country":"'. $rs["Country"]     . '"}';
    $rs->MoveNext();
}
$outp .= "]";

$conn->close();
echo ($outp);
?>
```

Server Running ASP.NET, VB and MS Access

```
<%@ Import Namespace="System.IO"%>
<%@ Import Namespace="System.Data"%>
<%@ Import Namespace="System.Data.OleDb"%>
<%
Response.AppendHeader("Access-Control-Allow-Origin", "*")
Response.AppendHeader("Content-type", "application/json")
Dim conn As OleDbConnection
Dim objAdapter As OleDbDataAdapter
Dim objTable As DataTable
Dim objRow As DataRow
Dim objDataSet As New DataSet()
Dim outp
Dim c
conn = New OledbConnection("Provider=Microsoft.Jet.OLEDB.4.0;data
source=Northwind.mdb")
objAdapter = New OledbDataAdapter("SELECT CompanyName, City, Country
FROM Customers", conn)
objAdapter.Fill(objDataSet, "myTable")
objTable=objDataSet.Tables("myTable")

outp = "["
c = chr(34)
for each x in objTable.Rows
if outp <> "[" then outp = outp & ","
outp = outp & "{" & c & "Name"    & c & ":" & c & x("CompanyName") & c &
","
outp = outp &       c & "City"    & c & ":" & c & x("City")       & c &
","
outp = outp &       c & "Country" & c & ":" & c & x("Country")    & c &
"}"
next
outp = outp & "]"

conn.close
response.write(outp)
%>
```

Server Running ASP.NET, Razor and SQL Lite

```
@{
Response.AppendHeader("Access-Control-Allow-Origin", "*")
Response.AppendHeader("Content-type", "application/json")
var db = Database.Open("Northwind");
var query = db.Query("SELECT CompanyName, City, Country FROM
Customers");
var outp ="["
}
@foreach(var row in query)
{
if outp <> "[" then outp = outp + ","
outp = outp + "{" + c + "Name"    + c + ":" + c + @row.CompanyName + c +
","
```

```
outp = outp +        c + "City"    + c + ":" + c + @row.City       + c +
","
outp = outp +        c + "Country" + c + ":" + c + @row.Country    + c +
"}"
}
outp = outp + "]"
@outp
```

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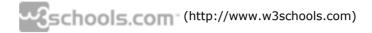(http://twitter.com/home?
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Color Picker

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