Database connectivity in ASP

- ✓ **Accessing a Database from an ASP Page**

- ✓ The common way to access a database from inside an ASP page is to:

- ✓ **Create an ADO connection** to a **database**

- ✓ **Open** the **database connection**

- ✓ **Create** an **ADO recordset**

- ✓ **Open** the **recordset**

- ✓ **Extract** the **data you** need **from** the **recordset**

- ✓ **Close** the **recordset**

- ✓ **Close** the **connection**

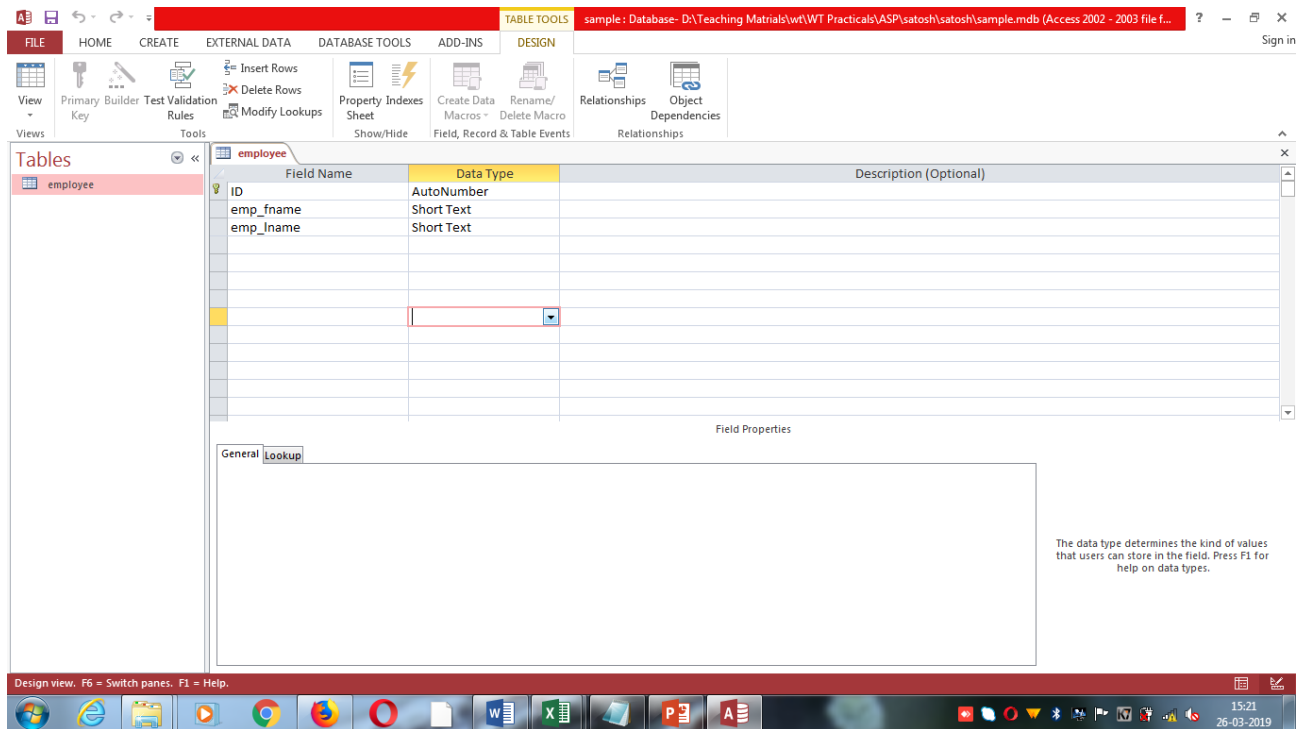**Create a DSN-less Database Connection**

The **easiest way** to **connect** to a **database** is to use **a DSN-less connection.**

A **DSN-less connection** can be **used against** any **Microsoft Access database** on **your web site.**

If you have a database called "**student_info.mdb**" **located** in a web directory like **"c:/ASP/",** you can **connect** to the **database** with **the following ASP code:**

<%

set conn=Server.CreateObject("ADODB.Connection")

conn.Provider="Microsoft.Jet.OLEDB.4.0"

conn.Open "c:/ASP/ student_info.mdb

%>

- ✓ **An ODBC Connection to an MS Access Database**

- ✓ Here is how to create a **connection** to a **MS Access Database:**

- ✓ Open the **ODBC icon** in your **Control Panel.**

- ✓ Choose the **System DSN tab.**

- ✓ Click on **Add** in the **System DSN tab.**

- ✓ Select the **Microsoft Access Driver**. Click **Finish.**

- ✓ In the next screen, click **Select to locate the database.**

- ✓ Give the database a **Data Source Name (DSN).**

- ✓ Click **OK.**

1) Create the database (Sample.mdb)
2) Create table employee(ID, emp_fname, emp_lname)
3) Create employee registration form(emp_insert.html) →

```
<html>
<body>
<form method="post" action="demodata.asp">
<table border="2" bgcolor="pink">
<tr>
<td>Employee First Name:</td>
<td><input name="txtFName"></td>
</tr><tr>
<td>Employee Last Name:</td>
<td><input name="txtLName"></td>
</tr>
<tr>
<td>
<input type="submit" value="Add New"> </td>
<td>
<input type="reset" value="Cancel">
</td>
</tr>
</table>
</form>
</body>
</html>
```

4) Insert data into employee table (emp_insertdemo.asp)
   -→ file contains following code

```asp
<%
set conn=Server.CreateObject("ADODB.Connection")
conn.Provider="Microsoft.Jet.OLEDB.4.0"
conn.Open(Server.Mappath("sample.mdb"))
fname=request.form("txtFName")
lname=request.form("txtLName")
sql = "INSERT INTO employee (emp_fname,emp_lname) "
sql = sql & "VALUES ('" & fname & "', '" & lname & "');"
on error resume next
conn.Execute sql, recaffected
if error <> 0 then
  response.write "No permissions!"
else
  response.write "Record inserted Successfully!"
end if
%>
```

5) Display Records from employee table

```html
<html>
<body>
<%
set conn=Server.CreateObject("ADODB.Connection")
conn.Provider="Microsoft.Jet.OLEDB.4.0"
conn.Open(Server.Mappath("sample.mdb"))

set rs=Server.CreateObject("ADODB.recordset")
sql="SELECT * FROM employee"
rs.Open sql,conn %>
 <table cellspacing="0" cellpadding="2" border="1">
   <tr>
     <th>ID</th>
     <th>First Name</th>
     <th>Last Name</th>
```

```
        </tr>
      <%
      do until rs.EOF
        response.write("<tr>")
       response.write("<td>" & rs.fields("id") & "</td>")
        response.write("<td>" & rs.fields("emp_fname") & "</td>")
        response.write("<td>" & rs.fields("emp_lname") & "</td>")
        response.write("</tr>")
        rs.MoveNext
      loop
      rs.close
      conn.Close
      %>
      </table>

      </body>

      </html>
```

6) Delete the record from employee table
➔ First select the record which is you have to delete (demo_delete.asp)

```
<html>

<body>

<%

set conn=Server.CreateObject("ADODB.Connection")

conn.Provider="Microsoft.Jet.OLEDB.4.0"

conn.Open(Server.Mappath("sample.mdb"))

set rs=Server.CreateObject("ADODB.recordset")

sql="SELECT * FROM employee"

rs.Open sql,conn %>

 <table cellspacing="0" cellpadding="2" border="1">

  <tr>

    <th>ID</th>

    <th>First Name</th>

    <th>Last Name</th>

  </tr>

<%
```

```asp
do until rs.EOF
  response.write("<tr>")
 response.write("<td>" & rs.fields("id") & "</td>")
  response.write("<td>" & rs.fields("emp_fname") & "</td>")
  response.write("<td>" & rs.fields("emp_lname") & "</td>")
  response.write("</tr>")
  rs.MoveNext
loop
rs.close
conn.Close
%>
</table>
 <form method="post" action="demo_delete1.asp">
Enter Employee ID  <input type="Text" name="ID" value="">
<input type="submit" value="Delete record">
 </form>
</body>
</html>
```

7) Delete the selected record from employee the code is……..

```asp
<%
   //response.write(request.form("ID"))
   cid=request.form("ID")
  set conn=Server.CreateObject("ADODB.Connection")
conn.Provider="Microsoft.Jet.OLEDB.4.0"
conn.Open(Server.Mappath("sample.mdb"))

set rs=Server.CreateObject("ADODB.recordset")
 sql="DELETE FROM employee WHERE ID=" & cid & ""
  on error resume next
  conn.Execute sql
 %>
<html>
<body>
<%
set conn=Server.CreateObject("ADODB.Connection")
conn.Provider="Microsoft.Jet.OLEDB.4.0"
conn.Open(Server.Mappath("sample.mdb"))

set rs=Server.CreateObject("ADODB.recordset")
sql="SELECT * FROM employee"
rs.Open sql,conn %>
 <table cellspacing="0" cellpadding="2" border="1">
  <tr>
    <th>ID</th>
    <th>First Name</th>
    <th>Last Name</th>
   </tr>
<%
do until rs.EOF
  response.write("<tr>")
 response.write("<td>" & rs.fields("id") & "</td>")
  response.write("<td>" & rs.fields("emp_fname") & "</td>")
  response.write("<td>" & rs.fields("emp_lname") & "</td>")
  response.write("</tr>")
  rs.MoveNext
loop
rs.close
conn.Close
%>
</table>
<%
   Response.write("Record Deleted Successfully")
%>
  </form> </body></html>
```