### dbPr (Database Properties)

This element stores all properties associated with an ODBC or OLE [DB](DB.docx) external data connection.

[Example:

Data connectivity can use a number of different technologies. The following is one example XML fragment defining an OLE [DB](DB.docx) [connection](connection.docx) and the associated dbPr element:

<[connection](connection.docx) id="2"
 odcFile="C:\My Documents\My Data Sources\Northwind Orders.odc" keepAlive="1"
 name="Northwind Orders" description="northwind" type="5" refreshedVersion="3">

 <dbPr [connection](connection.docx)="Provider=SQLOLEDB.1;Integrated Security=SSPI;Persist
 Security Info=True;Initial Catalog=Northwind;Data Source=dataserver1;Use
 Procedure for Prepare=1;Auto Translate=True;Packet Size=4096;Workstation
 ID=LOCAL\_MACHINE\_NAME;Use Encryption for Data=False;Tag with column
 collation when possible=False"
 command="&quot;Northwind&quot;.&quot;dbo&quot;.&quot;Orders&quot;"
 commandType="3"/>
</[connection](connection.docx)>

end example]

|  |
| --- |
| Parent Elements |
| [connection](connection.docx) (§) |

|  |  |
| --- | --- |
| Attributes | Description |
| command (Command Text) | The string containing the database command to pass to the data provider API that will interact with the external source in order to retrieve data. These strings can be constructed in a variety of ways (from simple UIs built into the spreadsheet application for browsing and choosing [tables](tables.docx) and fields, to external applications providing user interface to build up complex queries, to advanced [users](users.docx) editing text queries). The spreadsheetML application need not understand the command syntax; it can simply pass the command string to the data provider API in order to retrieve the latest external data.[Example: Data connectivity can use a number of different technologies. The following is one example of an ODBC command string of commandType=2 (for a Microsoft SQL Server database):command="SELECT Orders.OrderID, Orders.OrderDate, Orders.ShipName, Orders.ShipAddress, Orders.ShipCity, Orders.ShipRegion, Orders.ShipPostalCode, Orders.ShipCountry\_x000d\_\_x000a\_FROM Northwind.dbo.Orders Orders\_x000d\_\_x000a\_WHERE (Orders.ShipCountry=?)"Some characters in this string have been escaped - for more information on the escaping [scheme](scheme.docx), please refer to the [ST\_Xstring](ST_Xstring.docx) type definition. end example][Note: the "?" syntax in the string is something that the ODBC data provider is aware of and may replace with a [parameter](parameter.docx) before execution. end note][Example: Data connectivity can use a number of different technologies. The following is one example of an OLE [DB](DB.docx) command string of commandType=3 (for an Oracle database):command="&quot;TESTDB&quot;.&quot;ShippersTable&quot;"end example][Note: Data connectivity can use a number of different technologies. A few examples of potential values stored in this attribute can be found at: * http://msdn.microsoft.com/library/default.asp?url=/library/en-us/odbc/htm/odbcsql\_statements.asp
* http://msdn.microsoft.com/library/default.asp?url=/library/en-us/odbc/htm/odbcsql\_minimum\_grammar.asp
* http://msdn.microsoft.com/library/default.asp?url=/library/en-us/oledb/htm/oledbusing\_commands.asp

end note]The possible values for this attribute are defined by the [ST\_Xstring](ST_Xstring.docx) simple type (§). |
| commandType (OLE [DB](DB.docx) Command Type) | Specifies the OLE [DB](DB.docx) command type. Supported values are as follows:1. Query specifies a cube name2. Query specifies a SQL statement3. Query specifies a [table](table.docx) name4. Query specifies that default information has been given, and it is up to the provider how to interpret.5. Query is against a web based List Data Provider.The possible values for this attribute are defined by the XML [Schema](Schema.docx) unsignedInt datatype. |
| [connection](connection.docx) (Connection String) | The [connection](connection.docx) string is used to make contact with an OLE [DB](DB.docx) or ODBC data source. These can be constructed in a variety of ways (from UI wizards built into the data provider code, to external [query](query.docx) applications, to advanced [users](users.docx) editing text files). The spreadsheetML application need not understand the [connection](connection.docx) syntax at all; it can simply pass the command string to the data provider API in order to re-establish a [connection](connection.docx) with the external data source.[Example: ODBC [connection](connection.docx) string to a database:[connection](connection.docx)="DRIVER=SQL Server;SERVER=example\_server;UID=example\_useralias;APP=Microsoft Office 2007;WSID=user\_alias;Trusted\_Connection=Yes"end example][Example: of an OLE [DB](DB.docx) [connection](connection.docx) string to an Oracle database:[connection](connection.docx)="Provider=OraOLEDB.Oracle.1;Password=example\_password;Persist Security Info=True;User ID=example\_useralias;Data Source=example\_server;Extended Properties=&quot;&quot;" end example][Note: Data connectivity can use a number of different technologies. A few examples of potential values stored in this attribute can be found at: * http://msdn.microsoft.com/library/default.asp?url=/library/en-us/odbc/htm/dasdkodbcoverview.asp
* http://msdn.microsoft.com/library/default.asp?url=/library/en-us/odbcsql/od\_odbc\_d\_4x4k.asp
* http://msdn.microsoft.com/library/default.asp?url=/library/en-us/ado270/htm/mdreforacleprovspec.asp

end note]Connection strings syntaxes are specific to individual ODBC or OLE [DB](DB.docx) data provider drivers. The possible values for this attribute are defined by the [ST\_Xstring](ST_Xstring.docx) simple type (§). |
| serverCommand (Command Text) | Specifies a second command text string that is persisted when PivotTable server-based [page](page.docx) fields are in use. For ODBC [connections](connections.docx), serverCommand is usually a broader [query](query.docx) than command (no WHERE clause is present in the former). Based on these 2 commands, [parameter](parameter.docx) UI can be populated and parameterized queries can be constructed. The possible values for this attribute are defined by the [ST\_Xstring](ST_Xstring.docx) simple type (§). |

The following XML [Schema](Schema.docx) fragment defines the contents of this element:

<complexType [name](name.docx)="CT\_DbPr">

 <attribute [name](name.docx)="[connection](connection.docx)" use="required" type="[ST\_Xstring](ST_Xstring.docx)"/>

 <attribute [name](name.docx)="command" use="optional" type="[ST\_Xstring](ST_Xstring.docx)"/>

 <attribute [name](name.docx)="serverCommand" use="optional" type="[ST\_Xstring](ST_Xstring.docx)"/>

 <attribute name="commandType" use="optional" type="xsd:unsignedInt" default="2"/>

</complexType>