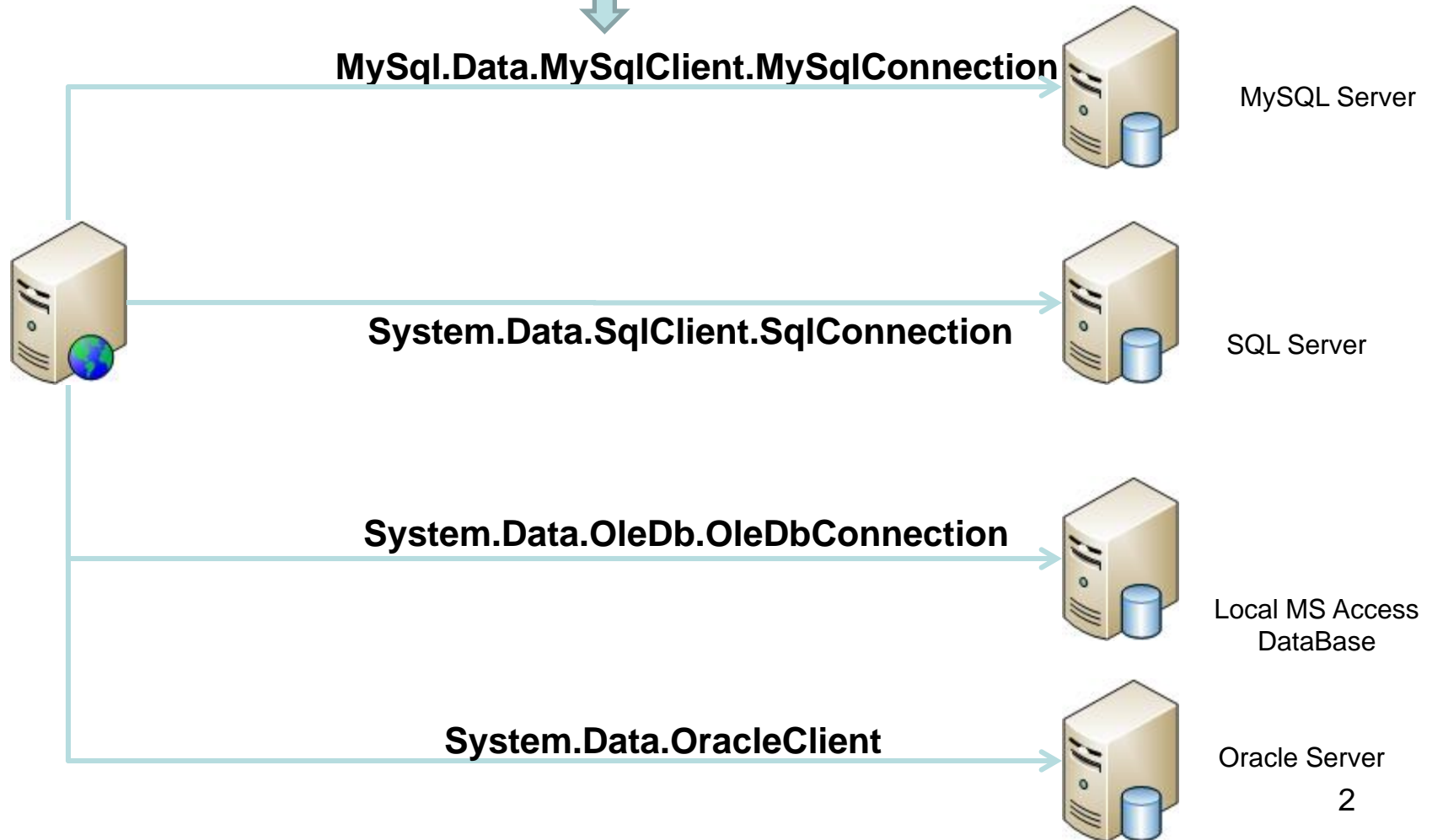


ADO.NET

MySQL .NET Connector - www.mysql.com



ADO.NET

MsAccess

```
connectionString="Provider=Microsoft.Jet.OLEDB.4.0; Data Source =  
    Test.mdb"
```

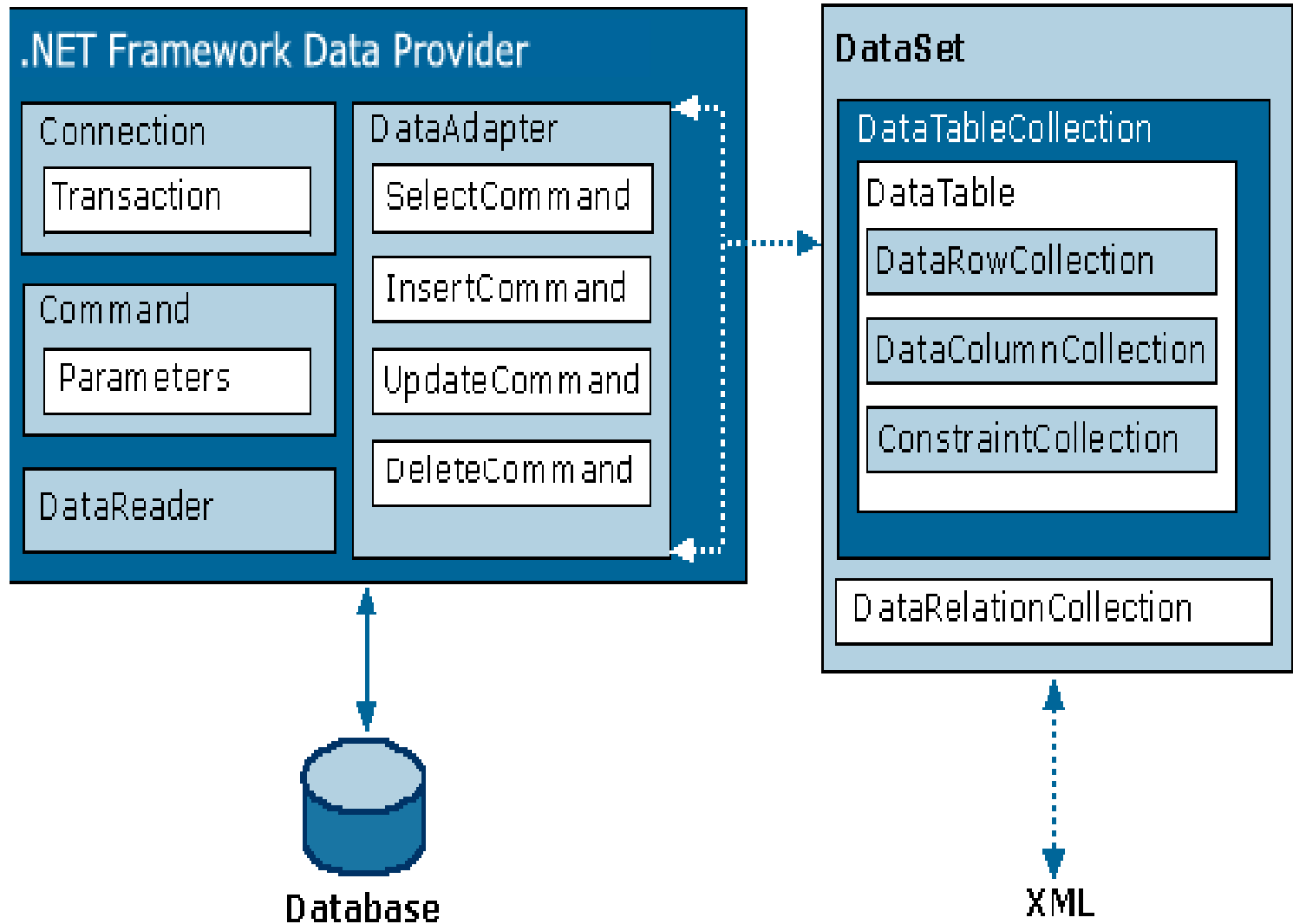
SQLServer

```
connectionString="Server=localhost; Database=test; User Id=username;  
    password= userpass"
```

MySQL

```
connectionString="server=localhost; user id=username;  
    Password=userpass; database=test; persist security info=False"
```

ADO.NET



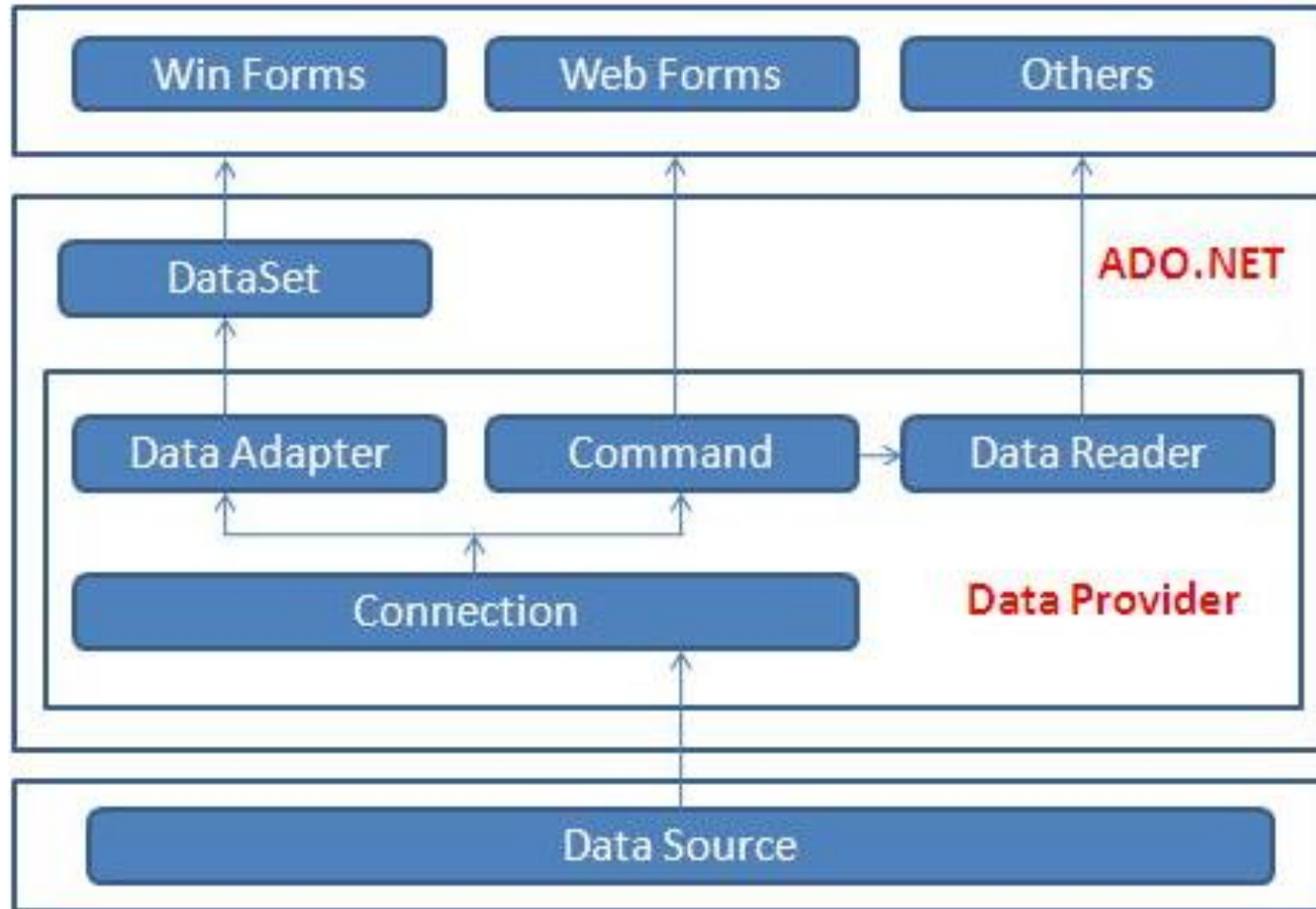
ADO.NET

- **DataTable** - tabela de date virtuala (echivalentul unei tabele dintr-o baza de date)
 - gestioneaza o colectie de DataColumnns (descrie campurile)
 - gestioneaza o colectie de DataRow (inregistrarile)
- **DataRelation** - defineste legaturi intre tabele
- **DataSet** - colectie de tabele virtuale (DataTables) (echivalentul unei baze de date)
- **DataView** - tabela de date virtuala utilizata pentru a extrage date din una sau mai multe DataTable

ADO.NET

- **Connection** - asigura conexiunea cu baza de date
- **Command** - asigura accesul la comenzile ce pot fi transmise unei baze de date (SELECT, INSERT, UPDATE, DELETE)
- **DataReader** - asigura acces intr-un singur sens de la baza de date catre aplicatie
- **DataAdapter** - asigura legatura in ambele sensuri intre baza de date si o tabela(DataTable) dintr-un DataSet

ADO.NET



Sursa: <http://vb.net-informations.com/ado.net/vb.net-ado.net-tutorial.htm>

ADO.NET DataSet

ID	Num e	Parol a

DataAdapter

Connection

DataView

Camp 1	Camp 2	Camp 3

Connection

Data
StoredProcedures

Bind

Camp 1	Camp 2	Camp 3
Gigel	23	CSIE
Ana	24	MAN

List-Bound Control



User



Server

Cient

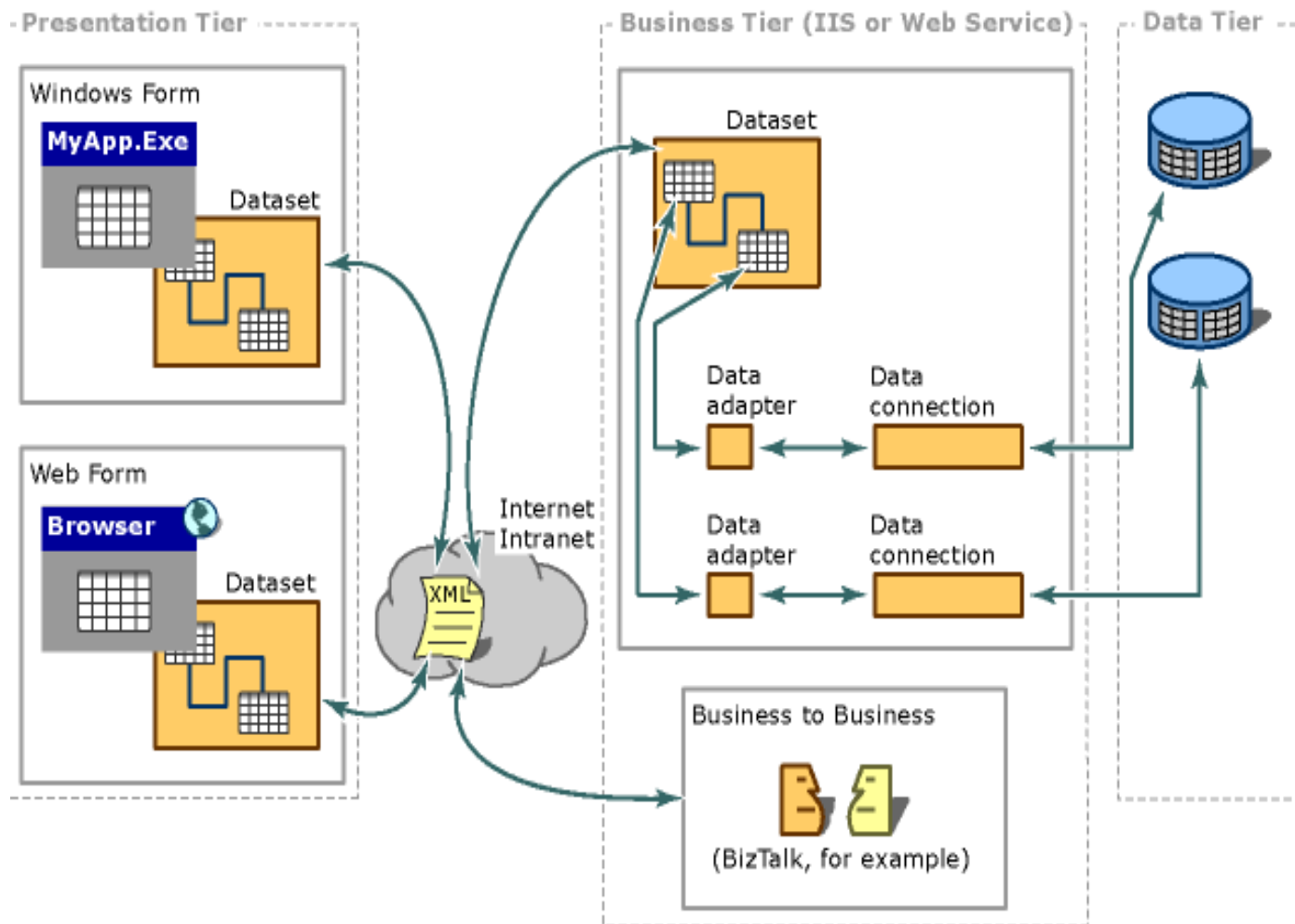
Command

Data Store

Camp 1	Camp 2	Camp 3
Gigel	23	CSIE
Ana	24	MAN

DataReader

ADO.NET



ADO.NET

DataSet	DataReader
Acces scriere/citire la date	Acces doar citire (read-only)
Include mai multe tabele din baze de date diferite	Date obtinute printr-o SINGURA comanda dintr-o UNICA baza de date
Nu au nevoie de conexiune permanenta - DISCONNECTED	Au nevoie de o conexiune permanenta pentru a primi datele - CONNECTED
Pot fi legate (BIND) de mai multe controale	Sunt legate de un SINGUR control
Permit citire de date in sensuri / moduri diferite	Permit citirea datelor intr-un singur mod - FORWARD
Acces lent a date	Acces rapid la date
Datele pot fi prelucrate prin diferite instrumente din VS.NET si prin cod	Sunt prelucrate de catre programator prin cod