ADO.NET Objects Model

- Connection
- Command
- DataReader
- DataAdapter
  - SelectCommand
  - InsertCommand
  - DeleteCommand
  - UpdateCommand
- DataSet
  - Tables (DataTablesCollection)
  - Relations (DataRelationsCollection)
  - DataRelation
  - DataTable
  - DataRelation
  - DataTable
  - DataRelation
  - DataTable
**DataReader object**

- When a user requests data, the Command retrieves data into the DataReader.
- The DataReader is a read-only, forward-only stream returned from the database.

**DataSet Object**

- When a user requests data, the Command pulls data out of a data store and pushes it into a DataTable.
- Once the DataSets are on the Server, the link can be cut.
- To display the data form the DataSet, you bind the DataSet directly to a list-bound control (DataGridView).
• The **SqlConnection** class is used to establish a *connection to a SQL Server database*. The SqlConnection class is used for *opening* connections, *setting* or *retrieving* properties of a connection, or handling connection-related events.

• The **SqlCommand** class is used to *execute SQL statements* or *stored procedures* against a SQL Server database. The SqlCommand class (and its OLE DB equivalent, the OleDbCommand class) can execute statements or stored procedures that do not return values, or that return single values, XML, or datareaders.

• The **SqlDataReader** class provides *forward-only, read-only access* to a set of rows returned from a SQL Server database. Datareaders (including both the SqlDataReader and OleDbDataReader) provide high-performance access to read-only data and are the best choice for accessing data to be displayed in ASP.NET.

• The **SqlDataAdapter** class is used as a *bridge* between the **DataSet** class and **SQL Server**. You can use the SqlDataAdapter class to *create* a dataset from a given SQL statement or stored procedure represented by a SqlCommand instance, to *update* the back-end SQL Server database based on the contents of a dataset, or to *insert* rows into or *delete* rows from a SQL Server database. The OleDbAdapter class performs the same tasks for OLE DB datasources.