**WHAT IS DATASET IN ADO.NET?**

In a simple word, A **DataSet** is a local copy of your Database Table that gets populated in client PC. It is independent of Data Source and because it exists in the local system, it makes application fast and reliable. Accessing Remote Database each time for updating or retrieving details are time-consuming so datasets help you to keep local database tables on your PC.

A **DataSet** behaves like real Database and it represents a complete set of data that includes tables, constraints, and relationships among the tables. Using the **DataAdapters** you can fill DataSet and use this dataset for retrieving and storing information. When all the tasks get completed, update Real Database with datasets.

**WHAT IS DATAADAPTERS?**

**DataAdapters** are used for controlling Datasets and it provides communication between DataSets and DataSource. DataAdapters make a connection with Data Source and then Fill Data to DataSets. It also Updates Data Source with DataSets.

**IMPORTANT DATA ADAPTERS PROPERTIES AND METHODS**

**Properties:**

|  |  |
| --- | --- |
| **Properties** | **Description** |
| **DeleteCommand** | It is used for Deleting Records from DataSource |
| **InsertCommand** | It is used for adding New Record to a DataSource |
| **SelectCommand** | It is used for Selecting Records from a DataSource |
| **UpdateCommand** | It is used for Updating Records in a DataSource. |
| **TableMapping** | It is used for mapping actual database tables and datasets. |

**Methods:**

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| --- | --- |
| **Method** | **Description** |
| **Fill** | This method Fills Records from DataAdapters to DataSets. |
| **Update** | This method update DataSource with DataSets. |