14-July-2023

DataGridview:

DataGridview is used to display the data in tabular format to the user

- DataGridview also will provide adding, deleting, editing and sorting facility bydefault.

properties with dataGrid view:

1. DataSource
2. DataMember

1. DataSource:

This property is used to set the collection or dataset name from which we want to display the data to the user.

2. DataMember:

This property is used to set the member name of the collection or table name of the dataset from which we want to display the data to the user.

Methods with Dataset Table:

1. Acceptchanges()
2. NewRow()
3. Reset()
4. Select(string filterexpression)
5. Rejectchanges()

2. NewRow method:

This method is used to create a new row or new record with the same structure of dataset table.

- NewRow method will return the row with datarow type.

3. Reset()

This method is used to delete the data of dataset table.

4. Select(string filter expression)

This method is used to search for one or more record set with in the dataset table.

- Return type of this method is DataRow Array.

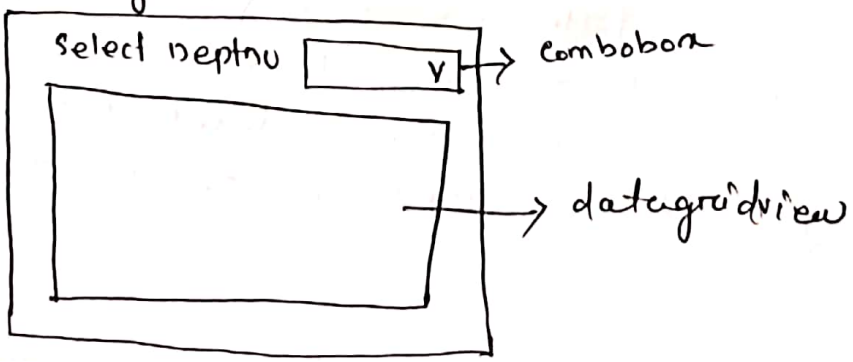
Properties with Dataset Table:

1. Columns
2. Constraints
3. ChildRelations
4. ParentRelations
5. primary
6. Rows
7. TableName

1. Columns : This is a collection property used to set or get one or more columns of the dataset Table. – Return type is DataColumn → It is a class
2. Constraints : This is a collection property used to set or get one or more constrains into the dataset table
3. ChildRelations :
   This is a collection property used to set or get the child relationships available to the dataset table.
4. ParentRelations :
   This is a collection property used to set or get on the parent relations available to the table with in the dataset.
5. primaryKey :
   Used to set or get the primary key fieldname to the dataset table.
6. Rows : This is a collection property used to set or get one or more rows into the dataset table.
   – Return type is DataRow → It is a class.
7. TableName :
   Used to set or get name of the table within the dataset.

Eg:- DS.Table[0].Rows.Add(datarow)
↓ collection ↳ method to add values to collection

> Eg to display the selected department number Empolyee details in the grid datagridview

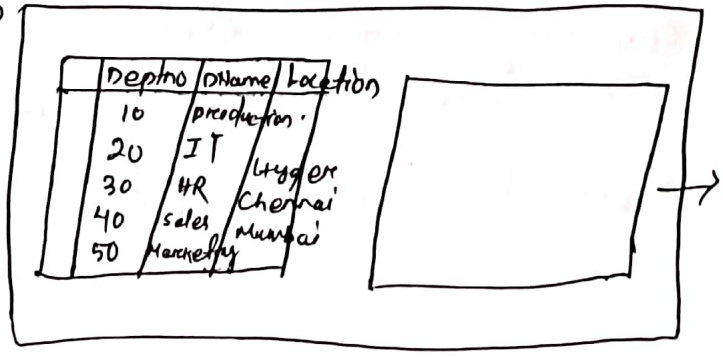


```
using System.Data.SqlClient;

SqlConnection Con; SqlDataReader DR; SqlCommand Cmd;
SqlDataAdapter DA; Dataset DS;

private void Form22_Load (                    )
{
 string SqlConstring = "Server = ASUS; user Id = sa;
                        password = ___ ; database = ___";
 Con = new SqlConnection(SqlConstring);
 cmd = new SqlCommand ("select Deptno from Department",co
 Con.Open();
 DR = Cmd.ExecuteReader();
 while (DR.Read())
        CmbDeptno.Items.Add(DR[0]);
   con.Close();
}
private void cmbDeptno_SelectedIndexchanged(
{
 string Query = "select * from EmpDetails where
                 Deptno = " + CmbDeptno.SelectedItem;
 DA = new SqlDataAdapter (Query, Con);
 DS = new Dataset();
 DA.Fill (DS, "Emp");
 DGVEmpDetails.Datasource = DS.Tables[0];
}
```

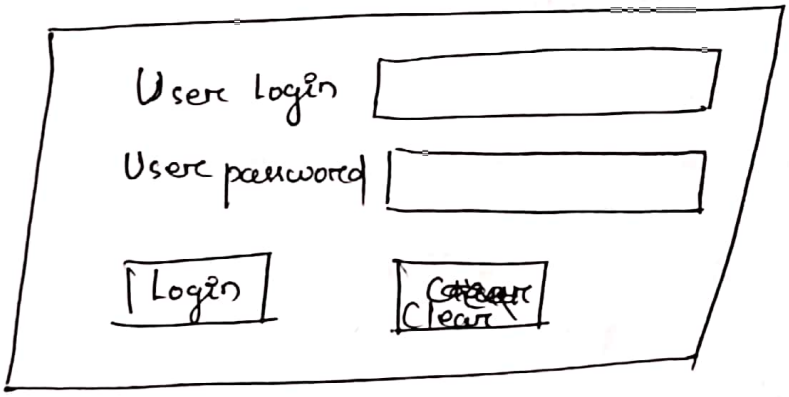
Eg to display selected Department Employees details in datagrid view



```
using System.Data.SqlClient;

SqlConnection Con;
SqlDataAdapter DA;
Dataset DS;

private void Form24_Load (                    )
{
String SqlConstring = "server = __; UserId = __; password = __;
                       database = __";
Con = new SqlConnection (SqlConstring);
DA = new SqlDataAdapter ("select * from Department",
                                              Con);
DS = new DatasetC);
DA.Fill (DS, "Dept");
DGVDept.Datasource = DS.Tables[0];
}
```




```
using System.Data.SqlClient;

SqlConnection Con; SqlDataReader DR; SqlCommand Cmd;

private void btnLogin_Click (                    )
{
String SqlConstring = "server = ASUS; User Id = ____;
                       password = ____; database = ____";
con = new sqlconnection (SqlConstring);
```

```
string Query = "Select * from Users where UserName =
                @P1 and password = @P2";
cmd = new SqlCommand(Query, con);
Cmd.CommandType = CommandType.Text;
Cmd.Parameters.Addwithvalue ("@P1", txtUName.Text);
Cmd.Parameters.Addwithvalue ("@P2", txtpassword.Text);
Con.Open();
DR = Cmd.ExecuteReader();
if (DR.Read())
    MessageBox.show("Login Successful");
else
    MessageBox.show("UserId & password incorrect");
  Con.Close();
}
```

[OR] Same as previous one

```
string Query = "select count(*) from
Users where UserName = @P1 and
password = @P2";
Con.Open();
int c = Convert.ToInt32(Cmd.ExecuteScalar());
if (c==1)
  MessageBox.show("Login Successful");
else
  MessageBox.show("UserName and password incorrect");
Con.Close();
}
```