

## Fill Data: With DataSet

```
DataSet ds;
| reference
private void Button_Click(object sender, RoutedEventArgs e)
{
| SqlConnection cn = new SqlConnection();
| cn.ConnectionString = @"Data Source=(localdb)\MsSqlLocalDb;Initial Catalog=JKDec20;Integrated Security=true";
| cn.Open();
| SqlCommand cmd = new SqlCommand();
| cmd.Connection = cn;
| cmd.CommandType = CommandType.Text;
| cmd.CommandType = CommandType.Text;
| cmd.CommandText = "select * from Employees";
| SqlDataAdapter da = new SqlDataAdapter();
| da.SelectCommand = cmd;
| ds = new DataSet();
| da.Fill(ds, "Emps");
| cmd.CommandText = "select * from Departments";
| da.Fill(ds, "Deps");
| //primary key validation
| DataColumn[] arrCols = new DataColumn[];
| arrCols[0] = ds.Tables["Emps"].Columns["EmpNo"];
| ds.Tables["Emps"].PrimaryKey = arrCols;
| //foreign key validation
| ds.Relations.Add(ds.Tables["Deps"].Columns["DeptNo"], ds.Tables["Emps"].Columns["DeptNo"]);
| //column level constraints
| //ds.Tables["Deps"].Columns["DeptName"].Unique = true;
| // dgEmps.ItemsSource = ds.Tables[0].DefaultView;
| dgEmps.ItemsSource = ds.Tables["Emps"].DefaultView;
| dgEmps.ItemsSource = ds.Tables["Emps"].DefaultView;
| cn.Close();
```

# Update:

```
private void Button_Click_1(object sender, RoutedEventArgs e)
{
    SqlConnection cn = new SqlConnection();
    cn.ConnectionString = @"Data Source=(localdb)\MsSqlLocalDb;Initial Catalog=JKDec20;Integrated Security=true";

    cn.Open();

    SqlCommand cmdUpdate = new SqlCommand();
    cmdUpdate.Connection = cn;
    cmdUpdate.CommandType = CommandType.Text;
    cmdUpdate.CommandText = "update Employees set Name =@Name, Basic= @Basic, DeptNo = @DeptNo where EmpNo =@EmpNo";

    cmdUpdate.Parameters.Add(new SqlParameter { ParameterName = "@Name", SourceColumn = "Name", SourceVersion = DataRowVersion.Current });
    cmdUpdate.Parameters.Add(new SqlParameter { ParameterName = "@Basic", SourceColumn = "Basic", SourceVersion = DataRowVersion.Current });
    cmdUpdate.Parameters.Add(new SqlParameter { ParameterName = "@DeptNo", SourceColumn = "DeptNo", SourceVersion = DataRowVersion.Current });
    cmdUpdate.Parameters.Add(new SqlParameter { ParameterName = "@EmpNo", SourceColumn = "EmpNo", SourceVersion = DataRowVersion.Original });
    //similarly create the insert command
    //similarly create the delete command
```

# Update ke under ka insert

```
// Insert ....
SqlCommand cmdInsert = new SqlCommand();
cmdInsert.Connection = cn;
cmdInsert.CommandType = CommandType.Text;
cmdInsert.CommandText = "insert into Employees values(@EmpNo,@Name,@Basic,@DeptNo)";

cmdInsert.Parameters.Add(new SqlParameter { ParameterName = "@Name", SourceColumn = "Name", SourceVersion = DataRowVersion.Current });
cmdInsert.Parameters.Add(new SqlParameter { ParameterName = "@Basic", SourceColumn = "Basic", SourceVersion = DataRowVersion.Current });
cmdInsert.Parameters.Add(new SqlParameter { ParameterName = "@DeptNo", SourceColumn = "DeptNo", SourceVersion = DataRowVersion.Current });
cmdInsert.Parameters.Add(new SqlParameter { ParameterName = "@DeptNo", SourceColumn = "EmpNo", SourceVersion = DataRowVersion.Current });
```

# Update ke under ka delete

```
//Delete ...

SqlCommand cmdDelete = new SqlCommand();
cmdDelete.Connection = cn;
cmdDelete.CommandType = CommandType.Text;
cmdDelete.CommandType = CommandType.Text;
cmdDelete.CommandText = "delete from Employees where EmpNo=@EmpNo";

cmdDelete.Parameters.Add(new SqlParameter { ParameterName = "@EmpNo", SourceColumn = "EmpNo", SourceVersion = DataRowVersion.Current });
```

#### Update ka finally:

```
SqlDataAdapter da = new SqlDataAdapter();
da.UpdateCommand = cmdUpdate;
da.InsertCommand = cmdInsert;
da.DeleteCommand = cmdDelete;

da.ContinueUpdateOnError = true; //ignore error and keep updating
da.Update(ds, "Emps");
}
```

## Get Changes : Pehale ka code jaise ke waisa (update wala)

```
DataSet ds2 = ds.GetChanges(DataRowState.Modified);

da.Update(ds2, "Emps");
}
```

### Accept Changes: Pehale ka code jaise ke waisa (update wala)

```
da.Update(ds, "Emps");
ds.AcceptChanges();
}
```

#### Reject Changes

```
// Reject changes
1reference
private void Button_Click_4(object sender, RoutedEventArgs e)
{
```

#### Save to XML File

```
1reference
private void Button_Click_6(object sender, RoutedEventArgs e)
{
    // MessageBox.Show(ds.GetXml());
    // ds.GetXmlSchema();

    ds.WriteXmlSchema("a.xsd");
    ds.WriteXml("a.xml", XmlWriteMode.DiffGram);
}
```

### **Get From File**

```
lreference
private void Button_Click_7(object sender, RoutedEventArgs e)
{
    ds = new DataSet();
    ds.ReadXmlSchema("a.xml");
    ds.ReadXml("a.xml", XmlReadMode.DiffGram);
    dgEmps.ItemsSource = ds.Tables["Emps"].DefaultView;
}
```

#### Filter: