Lab 11: GridView Programming

Objective:

- GridView programming with checkboxes and other controls.

Lab Tasks:

Use the following table design to create Table in Database.

Table Design

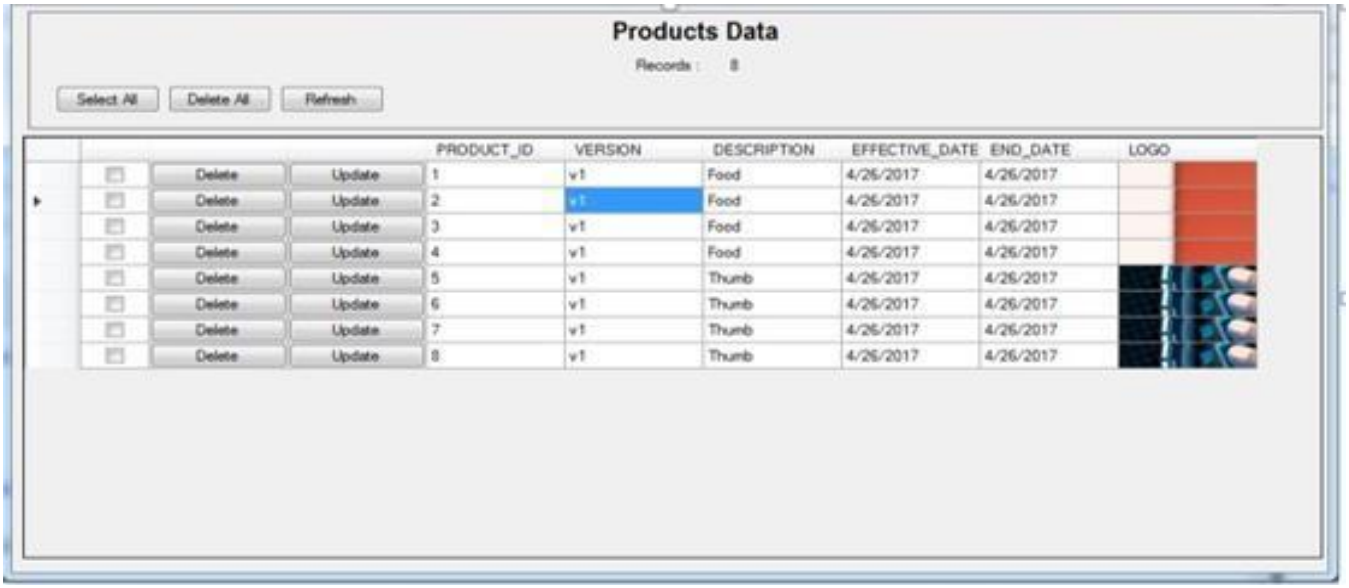
Product Info Table

Product_ID	int	☐
Version	nvarchar(50)	☑
Description	nvarchar(50)	☑
Start_Date	nvarchar(50)	☑
End_Date	nvarchar(50)	☑
Logo	image	☑
		☐

Exercise 1

Write a program for the below mentioned product data form having following assumptions:

1. All product information are visible in Data grid view.
2. Data Grid include checkbox, if user checks certain record it can be deleted or updated.
3. If no checkbox is selected, Delete and Update button will remain disabled.
4. Select all button selects all the records in grid.
5. Delete all button deletes all the records in grid.



Exercise 2

Write a program for the below mentioned product data entry form having following assumptions:

1. INSERT, DELETE and UPDATE buttons will perform according to their desired purpose i.e. insert button will insert data into the datagridview as well as database, delete button will delete the selected row in grid as well as database.
2. Open File dialogue for getting Image path.
   openFileDialog1.Multiselect = false;

```
if (openFileDialog1.ShowDialog() == DialogResult.OK)
{
   textBox4.Text = Path.GetFileName(openFileDialog1.FileName);

}
```

3. Following code converts image into Byte format:

```
public byte[] GetImageData()
    {
      FileStream fsImageStream = new FileStream(openFileDialog1.FileName, FileMode.Open,
FileAccess.Read);
      byte[] bImageData = new byte[fsImageStream.Length];
      fsImageStream.Read(bImageData, 0, System.Convert.ToInt32(fsImageStream.Length));
      fsImageStream.Close();
      return bImageData;
    }
```

4. Bind Data for getting record from DB and populate into GridView.

```
public void BindData()
    {
```

```
        try
        {
          DataTable dtData = new System.Data.DataTable();
          using (SqlConnection dbCon = new SqlConnection(@"Data Source=AIS110CL7-045;Initial
Catalog=usman;User ID=sa;Password=bimcs"))
          {
            using (SqlCommand cmdGetData = new SqlCommand("Select * from Product_Info",
dbCon))
            {

              if (dbCon.State == ConnectionState.Closed)
                dbCon.Open();
              using (SqlDataReader drGetData = cmdGetData.ExecuteReader())
              {
                dtData.Load(drGetData);
                for (int iCount = 0; iCount < dtData.Rows.Count; iCount++)
                {
                  DataGridViewRow row = (DataGridViewRow)dataGridView1.Rows[0].Clone();
                  row.Cells[0].Value = dtData.Rows[iCount][0];
                  row.Cells[1].Value  =  dtData.Rows[iCount][1];
                  row.Cells[2].Value  =  dtData.Rows[iCount][2];
                  row.Cells[3].Value  =  dtData.Rows[iCount][3];
                  row.Cells[4].Value  =  dtData.Rows[iCount][4];
                  byte[] storedImage = (byte[])dtData.Rows[iCount]["Logo"];
                  Image newImage;

                  MemoryStream stream = new MemoryStream(storedImage);
                  newImage = Image.FromStream(stream);
                  row.Cells[5].Value = newImage;
                  dataGridView1.Rows.Add(row);
                  dataGridView1.Rows[iCount].Height = 100;

                }
                if (dataGridView1.Columns[1] is DataGridViewImageColumn)
                {
                  ((DataGridViewImageColumn)dataGridView1.Columns[1]).ImageLayout =
DataGridViewImageCellLayout.Stretch;

                }
                //dgvData.Columns[1].Width = 20;
                //dgvData.Columns[1].Width = 90;
                dataGridView1.AllowUserToAddRows = false;
                dataGridView1.AutoGenerateColumns = false;

              }

            }
          }
```

```
        }
        catch (Exception ex)
        { }
    }
```

5. Getting Image into Byte format
   `byte[] bImageData = GetImageData();`
6. Search by have multiple search criteria i.e. by PRODUCT ID, VERSION, START DATE and END DATE.
7. Retrieve Data from Cell Click Event of DataGrid
   - `int row;`
   - `row = e.RowIndex;`
   - `pictureBox1.Image = (Image)dataGridView1.Rows[0].Cells["Logo"].Value;`
   - //..
   - //..
   - // Get more row data to Fill desired Controls