ORDER TAKING AND ORDER FULLFILMENT SYSTEM

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M.Tech CSE with Specialization in Big Data Analytics

INTRODUCTION:

This Project is about Order taking and order fulfillment for one of the biggest FMCG players in India. Like many FMCG companies, the last leg of supply chain happens through the salesman where salesman visits a particular site and takes orders through a handheld device.

During this conversation 3 types of order placement happens:

- Regular orders that retailers buy
- Upsell - where the salesmen try to sell other top moving products to increase sales.

Order taking happens at site product level where the salesman enters the amount of each products that is required by a particular site. The order is then processed and finally the order fulfillment happens in the same day or the next day.

OBJECTIVE:

- The main objective of this application is to effectively take orders from the retailers and increase the sales.
- Here Salesman will be given different areas each, where he has to visit the assigned retail shops and get the orders, place the orders and collect the amount by the retailers.

REQUIREMENTS:

FRONT END: VB TOOLS

Visual basic is used to design the user interface. A visual basic interface consists of objects that we place on screen and you can work with those objects.

BACK END: JAVA, SQL

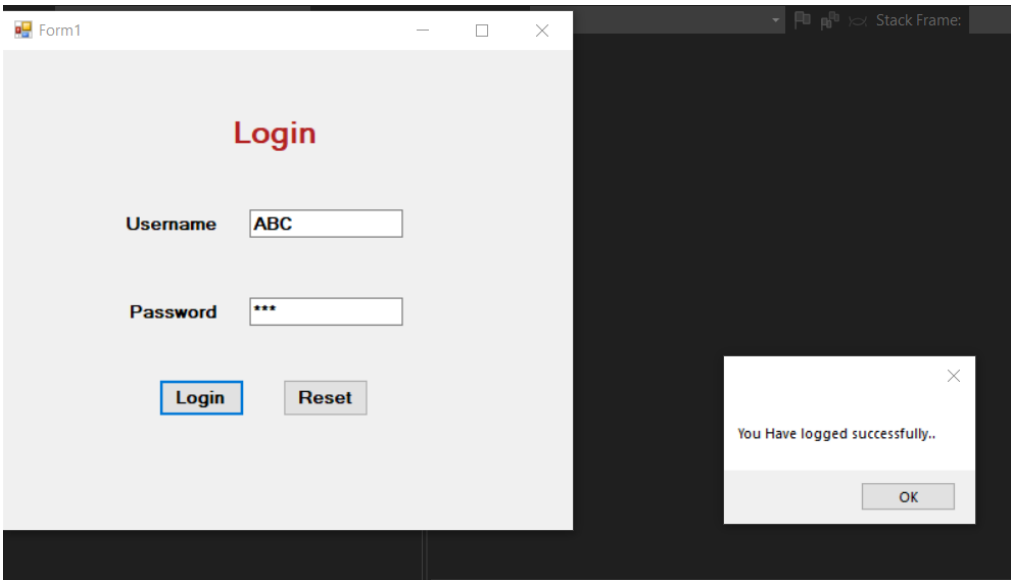
METHODOLGY:

Once when the salesman logs in the system he is allowed to add the supplier who are the shop owners of his own company if there are many branches. Likewise the goods info are those which are promoted by the salesman company. once when the goods are sold it is updates in the report page. the customers are the shop owners which he visits.

FRONT END DESIGN

1.Login page:

Salesman will be provided with login ID and password in order to access the customer, supplier, seller, goods information.

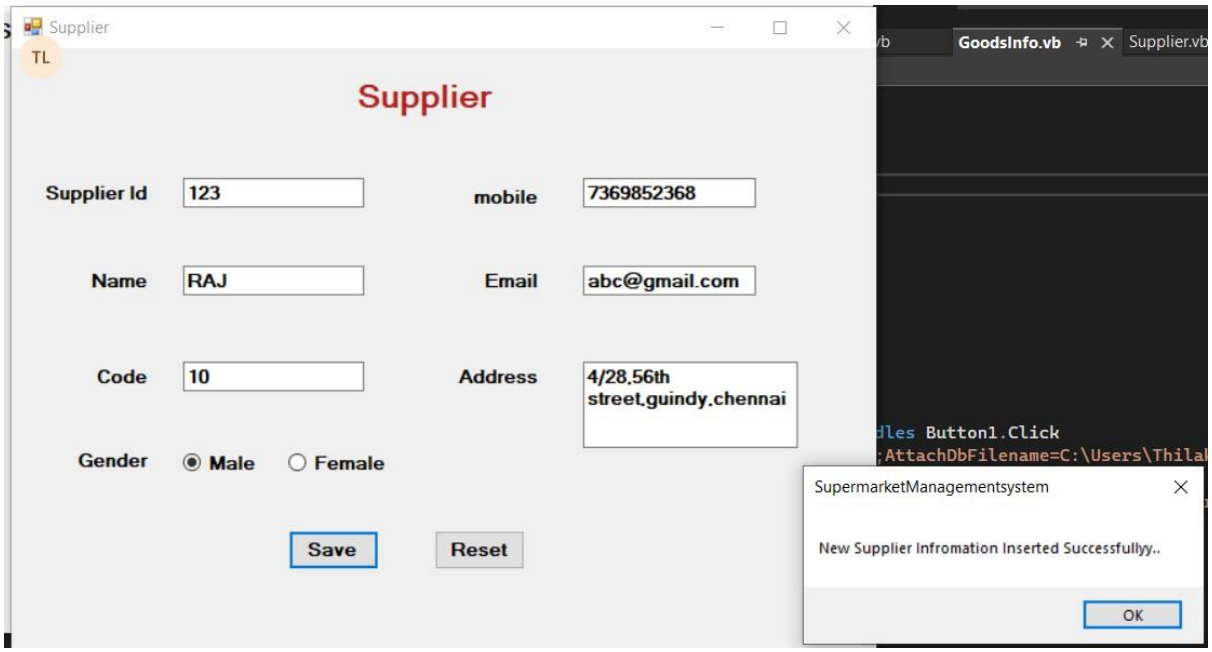


2. Home page:

Once after login, In the home page supplier, goods, customer, seller, report tab will be displayed.

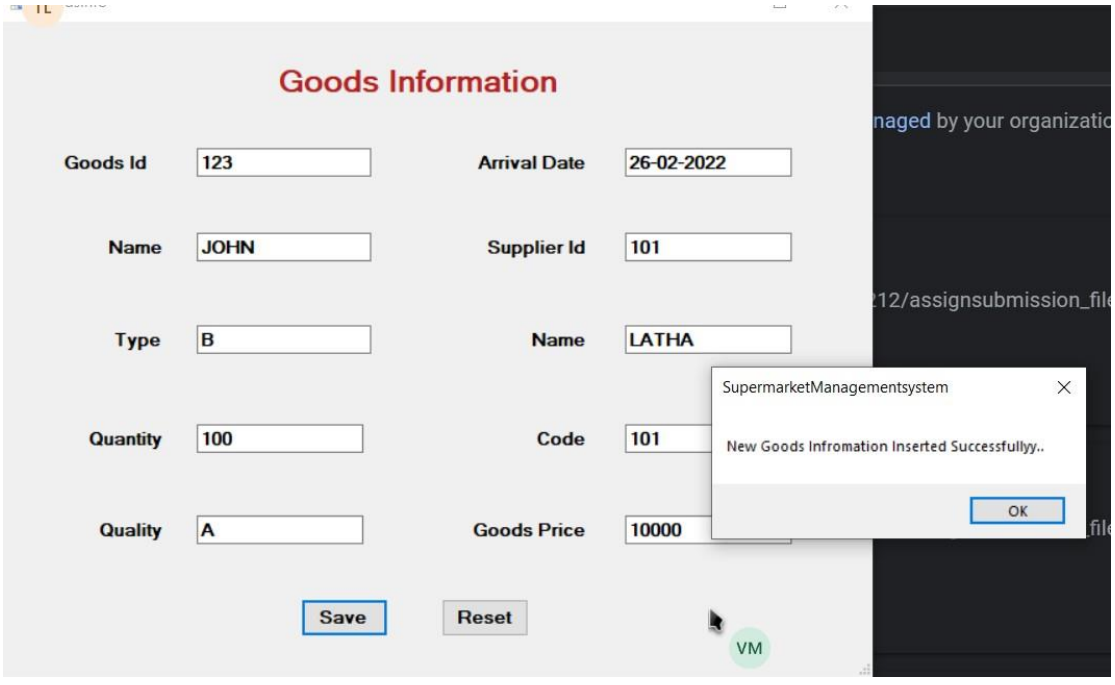
3. Supplier information:

In this page, supplier's information like ID, Name, address, email details will be displayed.



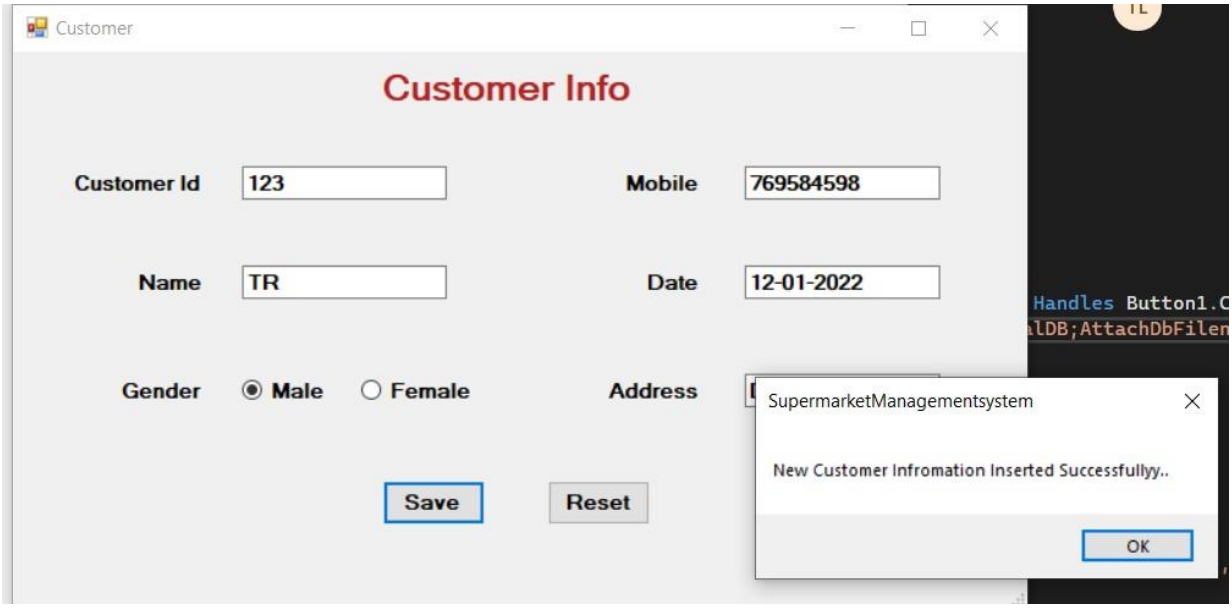
4. Good's Information:

This page plays the most important role between the Buyer and the supplier. In this page goods information like Quality, Quantity, Arrival date and Price details will be displayed.



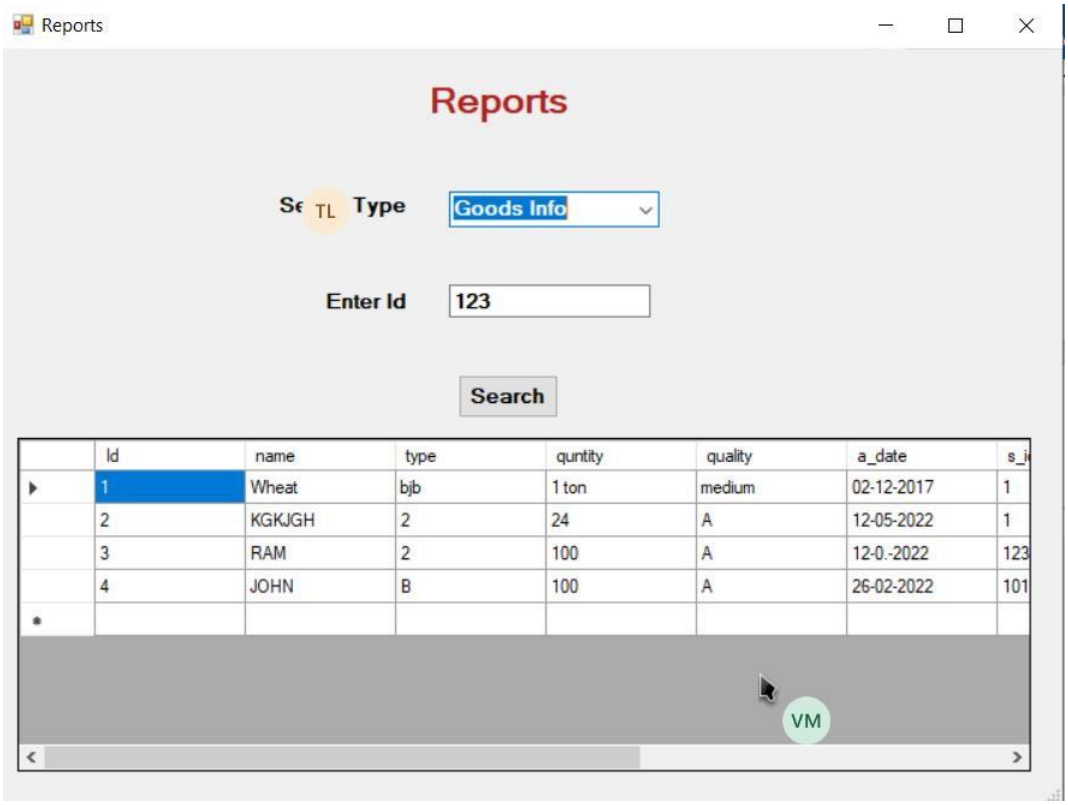
5. Customer Info:

The cutomer details will be displayed in this page. Each customer will be provided ID once after creating the account, we can easily search for the details by entering the Customer's ID.



6. Report:

In this page,reports like what product customer ordered, quality and quantity of that product, delivery date of the product, a complete information will be displayed.



BACKEND DESIGN

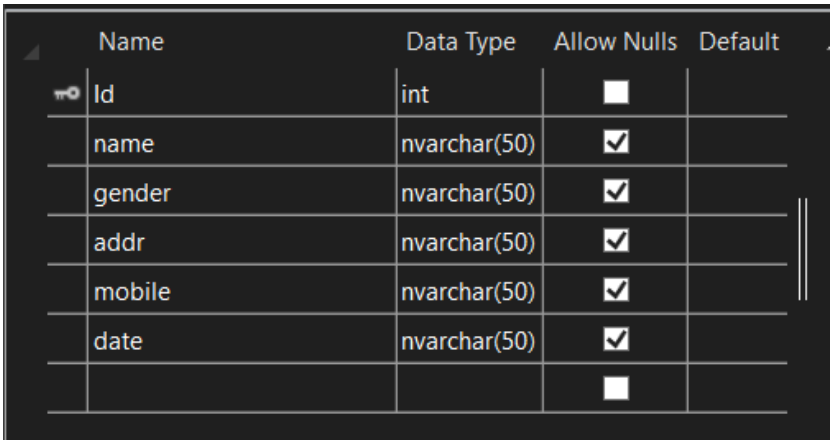
1. CUSTOMER_INFO

i, Creating customer Table:

```
CREATE TABLE [dbo].[cust] (
    [Id]     INT           IDENTITY (1, 1) NOT NULL,
    [name]   NVARCHAR (50) NULL,
    [gender] NVARCHAR (50) NULL,
    [addr]   NVARCHAR (50) NULL,
    [mobile] NVARCHAR (50) NULL,
    [date]   NVARCHAR (50) NULL,
    PRIMARY KEY CLUSTERED ([Id] ASC)
);
```

ii, Customer table schema:

iii, Table Datatypes:



Name	Data Type	Allow Nulls	Default
Id	int	☐	
name	nvarchar(50)	☑	
gender	nvarchar(50)	☑	
addr	nvarchar(50)	☑	
mobile	nvarchar(50)	☑	
date	nvarchar(50)	☑	
		☐	

2. SUPPLIER INFO

i, Creating supplier Table:

```
CREATE TABLE [dbo].[supplier] (
    [Id]     INT            IDENTITY (1, 1) NOT NULL,
    [name]   NVARCHAR (50) NULL,
    [code]   NVARCHAR (50) NULL,
    [addr]   NVARCHAR (50) NULL,
    [mobile] NVARCHAR (50) NULL,
    [email]  NVARCHAR (50) NULL,
    [gender] NVARCHAR (50) NULL,
    PRIMARY KEY CLUSTERED ([Id] ASC)
);
```

ii, Supplier table schema:

iii, Table Datatypes:

	Name	Data Type	Allow Nulls	Default
🔑	Id	int	☐	
	name	nvarchar(50)	☑	
	code	nvarchar(50)	☑	
	addr	nvarchar(50)	☑	
	mobile	nvarchar(50)	☑	
	email	nvarchar(50)	☑	
	gender	nvarchar(50)	☑	
			☐	

3. SELLER INFO

i, Creating seller Table:

```
CREATE TABLE [dbo].[sell] (
    [Id]       INT            IDENTITY (1, 1) NOT NULL,
    [c_id]     NVARCHAR (50) NULL,
    [name]     NVARCHAR (50) NULL,
    [mobile]   NVARCHAR (50) NULL,
    [g_id]     NVARCHAR (50) NULL,
    [g_name]   NVARCHAR (50) NULL,
    [type]     NVARCHAR (50) NULL,
    [quantity] NVARCHAR (50) NULL,
    [quality]  NVARCHAR (50) NULL,
    [price]    NVARCHAR (50) NULL,
    [payment]  NVARCHAR (50) NULL,
    PRIMARY KEY CLUSTERED ([Id] ASC)
);
```

ii, Seller table schema:

iii, Table Datatypes:

Name	Data Type	Allow Nulls	Default
Id	int	☐	
c_id	nvarchar(50)	☑	
name	nvarchar(50)	☑	
mobile	nvarchar(50)	☑	
g_id	nvarchar(50)	☑	
g_name	nvarchar(50)	☑	
type	nvarchar(50)	☑	
quantity	nvarchar(50)	☑	
quality	nvarchar(50)	☑	
price	nvarchar(50)	☑	
payment	nvarchar(50)	☑	
		☐	

4. GOODS INFO

```
CREATE TABLE [dbo].[ginfo] (
    [Id]      INT           IDENTITY (1, 1) NOT NULL,
    [name]    NVARCHAR (50) NULL,
    [type]    NVARCHAR (50) NULL,
    [quntity] NVARCHAR (50) NULL,
    [quality] NVARCHAR (50) NULL,
    [a_date]  NVARCHAR (50) NULL,
    [s_id]    NVARCHAR (50) NULL,
    [s_name]  NVARCHAR (50) NULL,
    [code]    NVARCHAR (50) NULL,
    [price]   NVARCHAR (50) NULL,
    PRIMARY KEY CLUSTERED ([Id] ASC)
);
```

ii, Seller table schema:

iii, Table Datatypes:

Id	int	☐		
name	nvarchar(50)	☑		
type	nvarchar(50)	☑		
quntity	nvarchar(50)	☑		
quality	nvarchar(50)	☑		
a_date	nvarchar(50)	☑		
s_id	nvarchar(50)	☑		
s_name	nvarchar(50)	☑		
code	nvarchar(50)	☑		
price	nvarchar(50)	☑		
		☐		

CONFIGURATION FILE (.vb file):

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
    <configSections>
    </configSections>
    <connectionStrings>
        <add name="SupermarketManagementsystem.My.MySettings.marketConnectionString"
            connectionString="Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=|DataDirect
            providerName="System.Data.SqlClient" />
    </connectionStrings>
    <startup>
        <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5.2" />
    </startup>
</configuration>
```

CODE:

Home.vb

```
Public Class Home
    0 references
    Private Sub SupplierToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles SupplierToolStripMenuItem.Click
        Supplier.ShowDialog()
    End Sub

    0 references
    Private Sub GoodsInfoToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles GoodsInfoToolStripMenuItem.Click
        GoodsInfo.ShowDialog()
    End Sub

    0 references
    Private Sub CustomerToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles CustomerToolStripMenuItem.Click
        Customer.ShowDialog()
    End Sub

    0 references
    Private Sub SellItemsToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles SellItemsToolStripMenuItem.Click
        SellItem.ShowDialog()
    End Sub

    0 references
    Private Sub ReportToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles ReportToolStripMenuItem.Click
        Reports.ShowDialog()
    End Sub
End Class
```

Goods_info.vb:

```
Public Class GoodsInfo
    Dim con As New SqlConnection
    Dim da As New SqlDataAdapter
    Dim com As SqlCommand
    Dim ds As New DataSet
    Dim dr As SqlDataReader
    Dim str As String
    Dim getinfo As String


    0 references
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        con = New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Thilakraj\Downloa

        com = New SqlCommand("insert into ginfo(name,type,quntity,quality,a_date,s_id,s_name,code,price)values(
        con.Open()
        com.ExecuteNonQuery()
        MsgBox("New Goods Infromation Inserted Successfullyy..")
        Hide()
        con.Close()

        TextBox2.Text = ""
        TextBox3.Text = ""
        TextBox4.Text = ""
        TextBox5.Text = ""
        TextBox6.Text = ""
        TextBox7.Text = ""
        TextBox8.Text = ""
        TextBox9.Text = ""
        TextBox10.Text = ""
    End Sub
```

Supplier.vb:

```
Public Class Supplier
    Dim con As New SqlConnection
    Dim da As New SqlDataAdapter
    Dim com As SqlCommand
    Dim ds As New DataSet
    Dim dr As SqlDataReader
    Dim str As String
    Dim getsup As String


    0 references
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        con = New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Thilakraj\Downloads\supmart\Supermarket
        If (RadioButton1.Checked = True) Then
            str = "Male"
        Else
            str = "Female"
        End If

        com = New SqlCommand("insert into supplier(name,code,addr,mobile,email,gender)values('" & TextBox2.Text & "','" & TextBox3.Te
        con.Open()
        com.ExecuteNonQuery()
        MsgBox("New Supplier Infromation Inserted Successfullyy..")
        Hide()
        con.Close()

        TextBox2.Text = ""
        TextBox6.Text = ""
        TextBox3.Text = ""
        TextBox4.Text = ""
        TextBox5.Text = ""
    End Sub
```

Seller.vb:

```
0 references
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    con = New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Thilakraj\Downloads\supmar
    If (RadioButton1.Checked = True) Then
        str = "Cash"
    ElseIf (RadioButton2.Checked = True) Then
        str = "Credit card"
    Else
        str = "Online"
    End If

    com = New SqlCommand("insert into sell(c_id,name,mobile,g_id,g_name,type,quantity,quality,price,payment)values('
    con.Open()
    com.ExecuteNonQuery()
    MsgBox("Selled Goods Information Inserted Successfullyy..")
    Hide()
    con.Close()

    TextBox1.Text = ""
    TextBox2.Text = ""
    TextBox3.Text = ""
    TextBox4.Text = ""
    TextBox5.Text = ""
    TextBox6.Text = ""
    TextBox7.Text = ""
    TextBox8.Text = ""
End Sub
```

Report.vb:

```
Private Sub ComboBox1_SelectedIndexChanged(sender As Object, e As EventArgs) Handles ComboBox1.SelectedIndexChanged
    If ComboBox1.SelectedIndex = "0" Then
        Using con = New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Thilakraj\Downlo
            str = "SELECT * FROM ginfo"
            com = New SqlCommand(str, con)
            da = New SqlDataAdapter(com)
            dt = New DataTable()
            dv = New DataView()
            da.Fill(dt)

            DataGridView1.DataSource = New BindingSource(dt, ginfo)
        End Using
    ElseIf ComboBox1.SelectedIndex = "1" Then
        Using con = New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=c:\users\dell\documents\v
            str = "SELECT * FROM sell"
            com = New SqlCommand(str, con)
            da = New SqlDataAdapter(com)
            dt = New DataTable()
            dv = New DataView()
            da.Fill(dt)

            DataGridView1.DataSource = New BindingSource(dt, sell)
        End Using
    ElseIf ComboBox1.SelectedIndex = "2" Then
        Using con = New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=c:\users\dell\documents\v
            str = "SELECT * FROM supplier"
            com = New SqlCommand(str, con)
            da = New SqlDataAdapter(com)
            dt = New DataTable()
            dv = New DataView()
            da.Fill(dt)

            DataGridView1.DataSource = New BindingSource(dt, supplier)
        End Using
    End If
End Sub
```

Result:

Thus, the model is executed successfully.