

FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsGitHelp

Search (Ctrl+Q)

SmartPhoneLINQ

TP

Live Share

LaptopDB.dbmkt1Form1.csForm1.cs [Design]Form1.Designer.cs

LaptopLINQSmartPhoneLINQ.Form1button1_Click(object sender, EventArgs e)

8990919293949596979899100101102103104105106107108109110111112113114115116117118119120121122

```
Laptop updatedSP = (from sp in db.Laptops
    where sp.LaptopID == SelectedLaptopID
    select sp).SingleOrDefault();

updatedSP.LaptopID = dgwLaptop.Rows[RowIndex].Cells[0].Value.ToString();
updatedSP.Laptop_Name = dgwLaptop.Rows[RowIndex].Cells[1].Value.ToString();
updatedSP.Laptop_Type = dgwLaptop.Rows[RowIndex].Cells[2].Value.ToString();
updatedSP.Product_Date = DateTime.Parse(dgwLaptop.Rows[RowIndex].Cells[3].Value.ToString());
updatedSP.Processor = dgwLaptop.Rows[RowIndex].Cells[4].Value.ToString();
updatedSP.HDD = dgwLaptop.Rows[RowIndex].Cells[5].Value.ToString();
updatedSP.RAM_ = dgwLaptop.Rows[RowIndex].Cells[6].Value.ToString();
updatedSP.Price = Convert.ToInt32(dgwLaptop.Rows[RowIndex].Cells[7].Value.ToString());
updatedSP.Image_Name = "surface3.jpg";

db.SubmitChanges();
DisplayData();
MessageBox.Show("Laptop : " + updatedSP.LaptopID + "is updated");
}

1 reference
private void btnInsert_Click(object sender, EventArgs e)
{
    Laptop checkedSP;
    List<Laptop> SPList = (from sp in db.Laptops
        where sp.LaptopID.Contains("NEW")
        select sp).ToList();

    string NewID = "NEW";
    if (SPList.Count == 0)
        NewID = NewID + "001";
    else
    {
        checkedSP = SPList.Last();
        NewID = NewID + NextId(checkedSP.LaptopID.Substring(checkedSP.LaptopID.Length - 3));
    }
}
```

100%No issues foundLn: 26Ch: 10SPCCRLF

Properties

Server Explorer

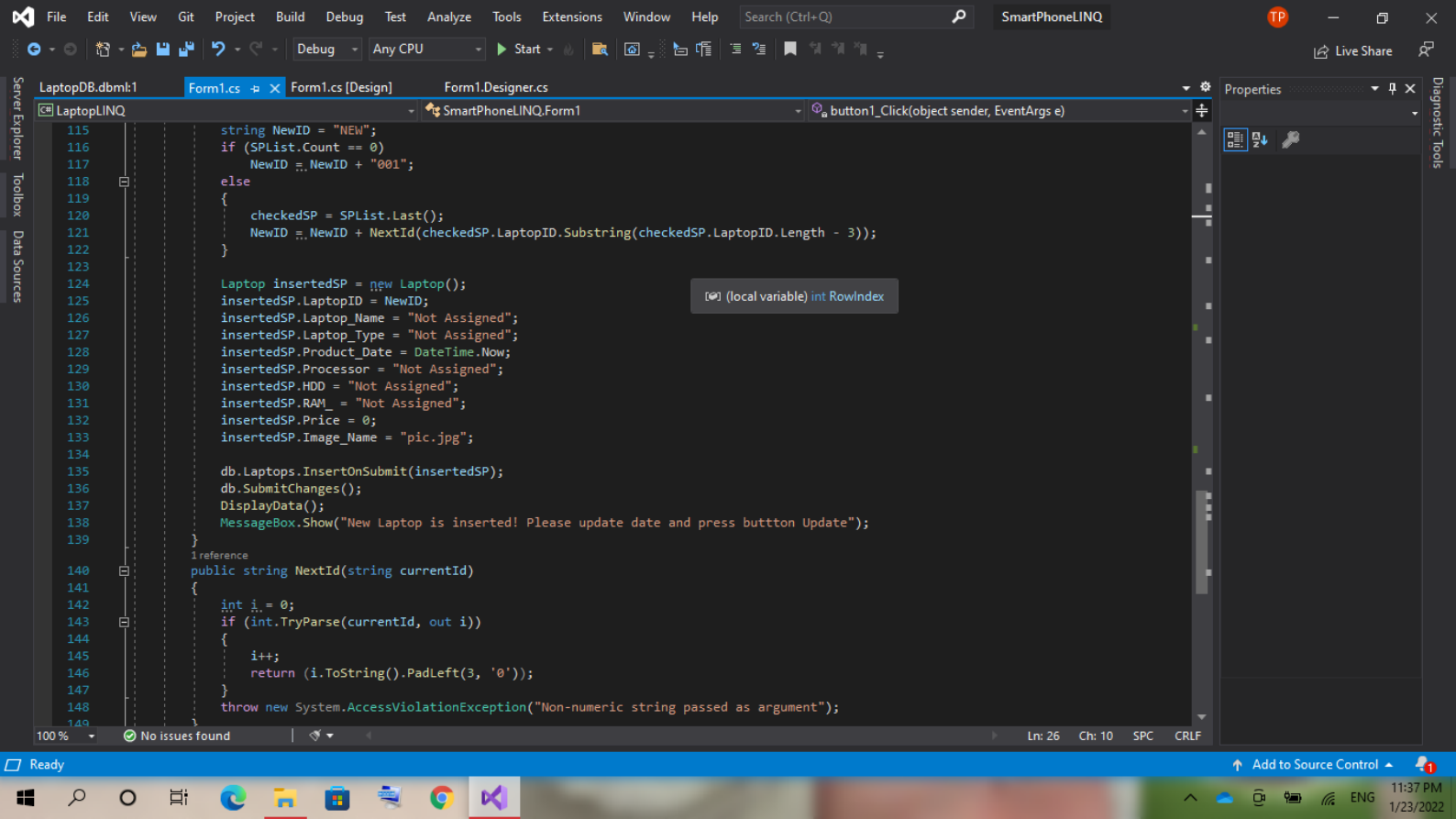
Toolbox

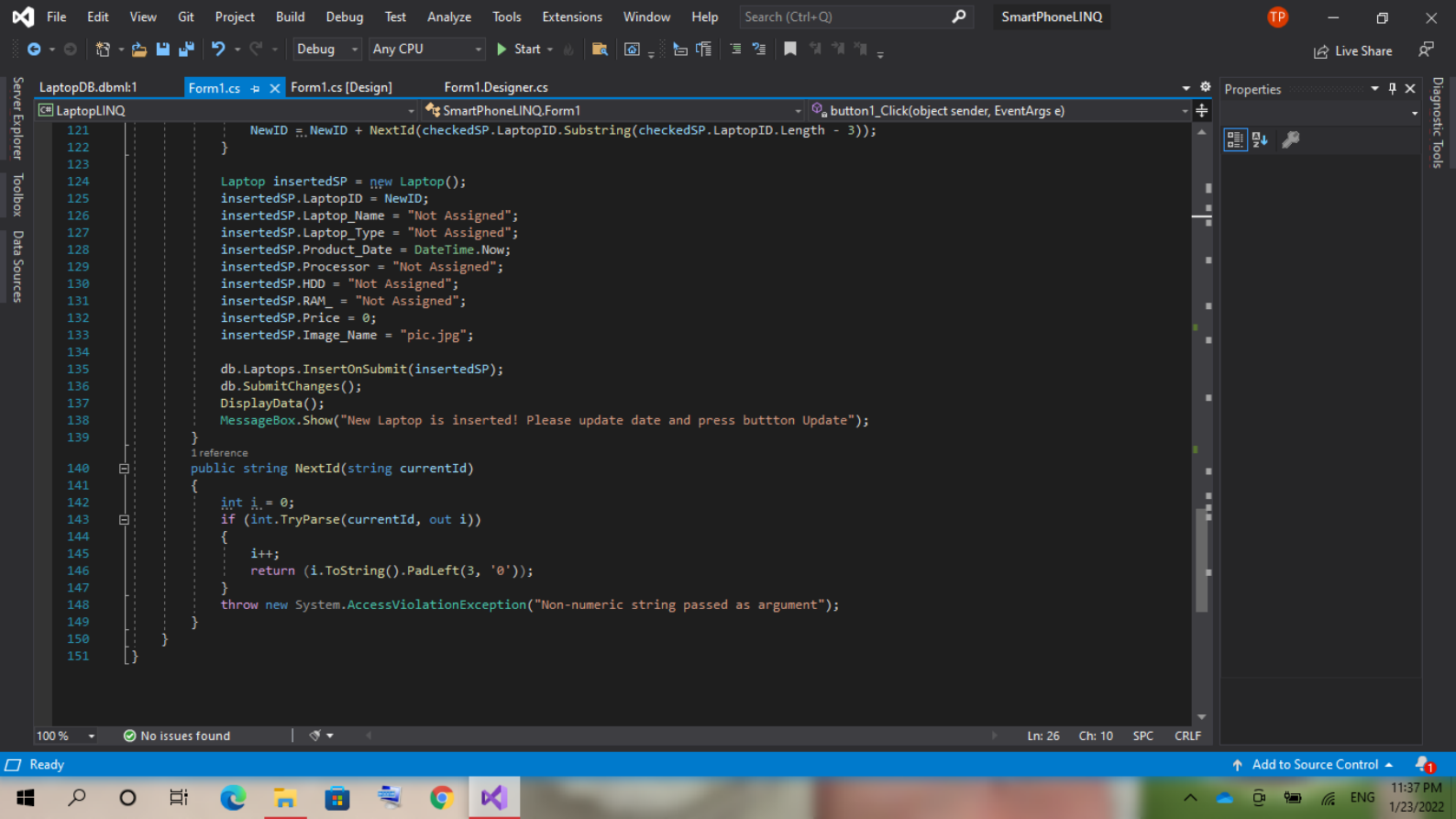
Data Sources

Ready

Add to Source Control

11:37 PM1/23/2022





FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsWindowHelp

Search (Ctrl+Q)

SmartPhoneLINQ

TP


Live Share

Process

Form1

Load Data From SQL Server

Close Application



Delete

Update

Insert

LaptopDI

Lapto

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

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138

139

140

141

100 %

Autos

Search (Ctrl+E)

Search Depth: 3

Name	Value	Type
------	-------	------

AutosLocalsWatch 1

Breakpoints

New

Show Columns

Search:

Name	Labels	Condition	Hit Count
------	--------	-----------	-----------

BreakpointsException SettingsCommand WindowImmediate WindowOutput

Diagnostics Tools

Diagnostics session: 3 seconds

10s

Events

Process Memory (MB)

23

0

23

0

CPU (% of all processors)

SummaryEventsMemory UsageCPU Usage

Events

Show Events (0 of 0)

Memory Usage

Take Snapshot

CPU Usage

SPCCRLF

Ready

Add to Source Control

11:37 PM

1/23/2022

FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsWindowHelpSearch (Ctrl+Q)

SmartPhoneLINQ

TP

Live Share

Process Explorer

Form1

Load Data From SQL Server

Close Application

	LaptopID	Laptop_Name	Laptop_Type	Product_Date	Processor
▶	LT001	Laptop Apple Ma...	Apple	2/15/2019	Intel Core i5
	LT002	Laptop Apple Ma...	Apple	2/17/2020	Intel Core i7-
	LT003	MacBook Pro 20...	Apple	5/15/2021	Intel Core i5-4
	LT004	Laptop HP Pavili...	HP	8/21/2017	Intel Core i7-4
	LT005	Laptop HP Gami...	HP	1/25/2018	Intel Core i5
	LT006	Laptop Dell Inspir...	Dell	9/23/2015	Intel Core i3-
	LT007	Laptop Dell Gami...	Dell	9/14/2016	Intel Core i5-
	LT008	Laptop Surface P...	Surface	9/23/2019	Intel Core i5-4
	LT009	Surface Laptop ...	Surface	9/21/2021	Intel Core i5-4
	LT010	Laptop Surface P...	Surface	8/21/2017	Intel Core i3
*					

Delete

Update

Insert

100 %

Autos

Search (Ctrl+E)

Search Depth: 3

Name

Value

Type

Breakpoints

Exception Settings

Command Window

Immediate Window

Output

Diagnostic Tools

Diagnostics session: 6 seconds

10s

Events

Process Memory (MB)

28

0

28

0

CPU (% of all processors)

Summary

Events

Memory Usage

CPU Usage

Ready

Add to Source Control

11:37 PM

1/23/2022

Form1

Load Data From SQL Server

Close Application

	LaptopID	Laptop_Name	Laptop_Type	Product_Date	Processor
▶	LT001	Laptop Apple Ma...	Apple	2/15/2019	Intel Core i5
	LT002	Laptop Apple Ma...	Apple	2/17/2020	Intel Core i7-
	LT003	MacBook Pro 20...	Apple	5/15/2021	Intel Core i5-4
	LT004	Laptop HP Pavili...	HP	8/21/2017	Intel Core i7-4
	LT005	Laptop HP Gami...	HP	1/25/2018	Intel Core i5
	LT006	Laptop Dell Inspir...	Dell	9/23/2015	Intel Core i3-
	LT007	Laptop Dell Gami...	Dell	9/14/2016	Intel Core i5-
	LT008	Laptop Surface P...	Surface	9/23/2019	Intel Core i5-4
	LT009	Surface Laptop ...	Surface	9/21/2021	Intel Core i5-4
	LT010	Laptop Surface P...	Surface	8/21/2017	Intel Core i3
*					

Delete

Update

Insert

100 %

Autos

Search (Ctrl+E)

Search Depth: 3

Name

Value

Type

Breakpoints

Exception Settings

Command Window

Immediate Window

Output

Diagnostic Tools

Diagnostics session: 6 seconds

10s

Events

Process Memory (MB)

28

0

28

0

CPU (% of all processors)

Summary

Events

Memory Usage

CPU Usage

Ready

Add to Source Control

11:37 PM

1/23/2022

Form1

Load Data From SQL Server

Close Application

	LaptopID	Laptop_Name	Laptop_Type	Product_Date	Processor
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	LT002	Laptop Apple Ma...	Apple	2/17/2020	Intel Core i7-
	LT003	MacBook Pro 20...	Apple	5/15/2021	Intel Core i5-4
	LT004	Laptop HP Pavili...	HP	8/21/2017	Intel Core i7-4
	LT005	Laptop HP Gami...	HP	1/25/2018	Intel Core i5
	LT006	Laptop Dell Inspir...	Dell	9/23/2015	Intel Core i3-
	LT007	Laptop Dell Gami...	Dell	9/14/2016	Intel Core i5-
	LT008	Laptop Surface P...	Surface	9/23/2019	Intel Core i5-4
	LT009	Surface Laptop ...	Surface	9/21/2021	Intel Core i5-4
	LT010	Laptop Surface P...	Surface	8/21/2017	Intel Core i3
*					

Delete

Update

Insert

100 %

Autos

Search (Ctrl+E)

Search Depth: 3

Name

Value

Type

Breakpoints

Exception Settings

Command Window

Immediate Window

Output

Diagnostic Tools

Diagnostics session: 6 seconds

10s

Events

Process Memory (MB)

28

0

28

0

CPU (% of all processors)

Summary

Events

Memory Usage

CPU Usage

Ready

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1/23/2022

FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsHelp

Search (Ctrl+Q)

SmartPhoneLINQ

TP

Live Share

Process

Form1

Load Data From SQL Server

Close Application

	LaptopID	Laptop_Name	Laptop_Type	Product_Date	Processor
▶	LT001	Laptop Apple Ma...	Apple	2/15/2019	Intel Core i5
	LT002	Laptop Apple Ma...	Apple	2/17/2020	Intel Core i7-
	LT003	MacBook Pro 20...	Apple	5/15/2021	Intel Core i5-4
	LT004	Laptop HP Pavili...	HP	8/21/2017	Intel Core i7-4
	LT005	Laptop HP Gami...	HP	1/25/2018	Intel Core i5
	LT006	Laptop Dell Inspir...	Dell	9/23/2015	Intel Core i3-
	LT007	Laptop Dell Gami...	Dell	9/14/2016	Intel Core i5-
	LT008	Laptop Surface P...	Surface	9/23/2019	Intel Core i5-4
	LT009	Surface Laptop ...	Surface	9/21/2021	Intel Core i5-4
	LT010	Laptop Surface P...	Surface	8/21/2017	Intel Core i3

Delete

Update

Insert

Laptop :LT001is updated

OK

Diagnostic Tools

Diagnostics session: 11 seconds

10s

Events

Process Memory (MB)

29

29

0

0

CPU (% of all processors)

SummaryEventsMemory UsageCPU Usage

Events

Show Events (0 of 0)

Memory Usage

Take Snapshot

CPU Usage

Autos

Search (Ctrl+E)

Search Depth: 3

NameValueType

Breakpoints

New

Show Columns

Search:

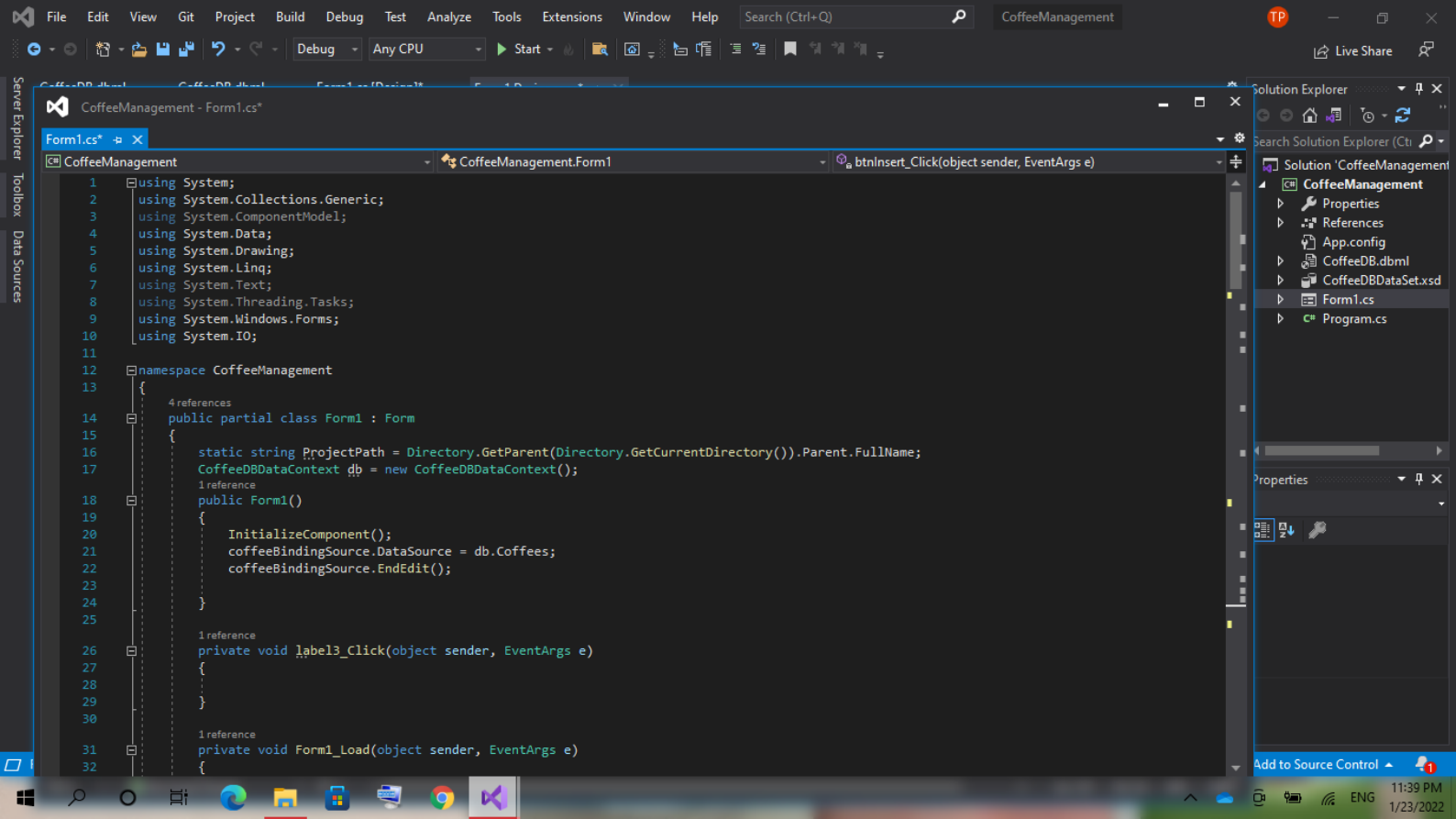
NameLabelsConditionHit Count

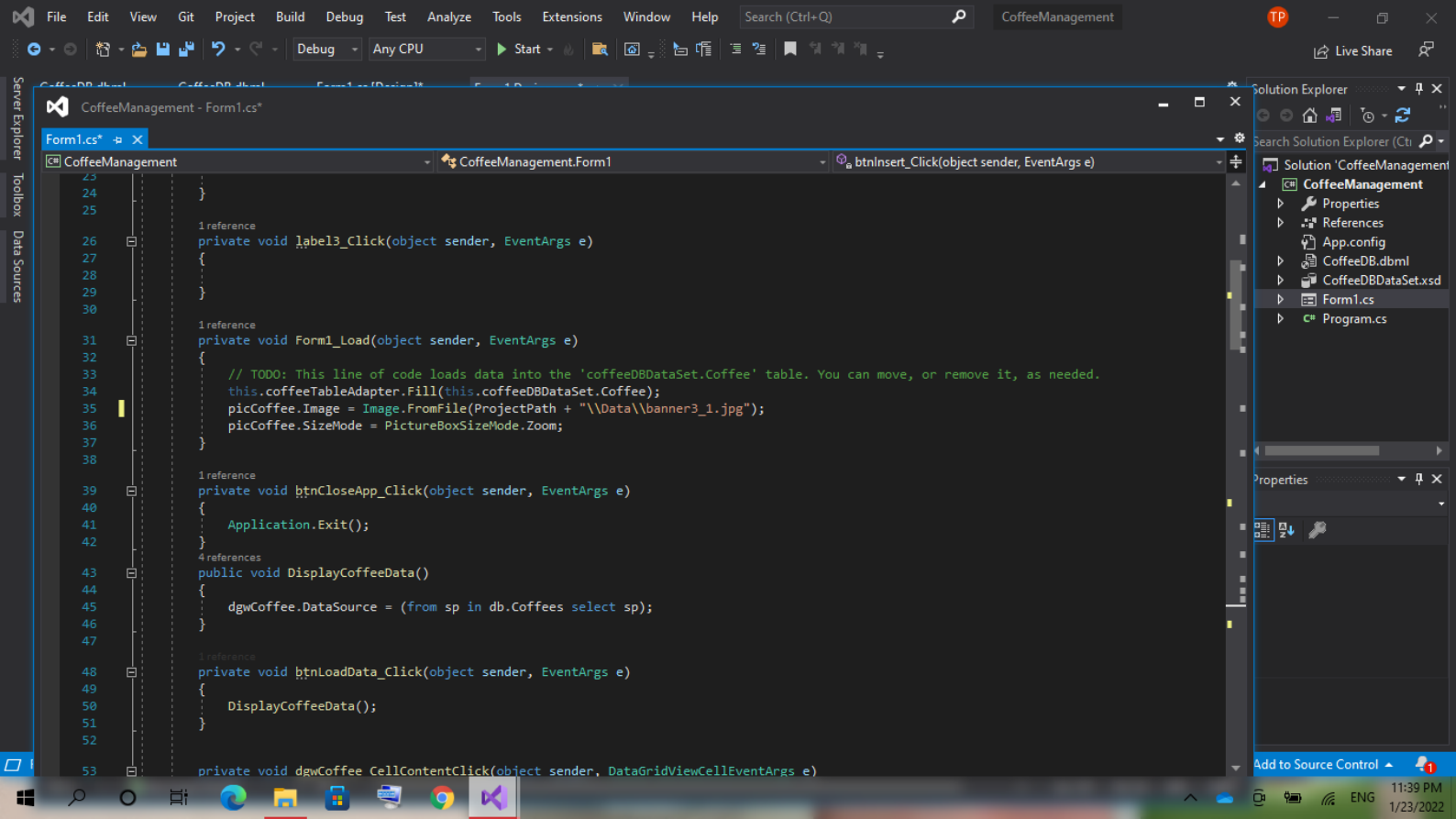
Ready

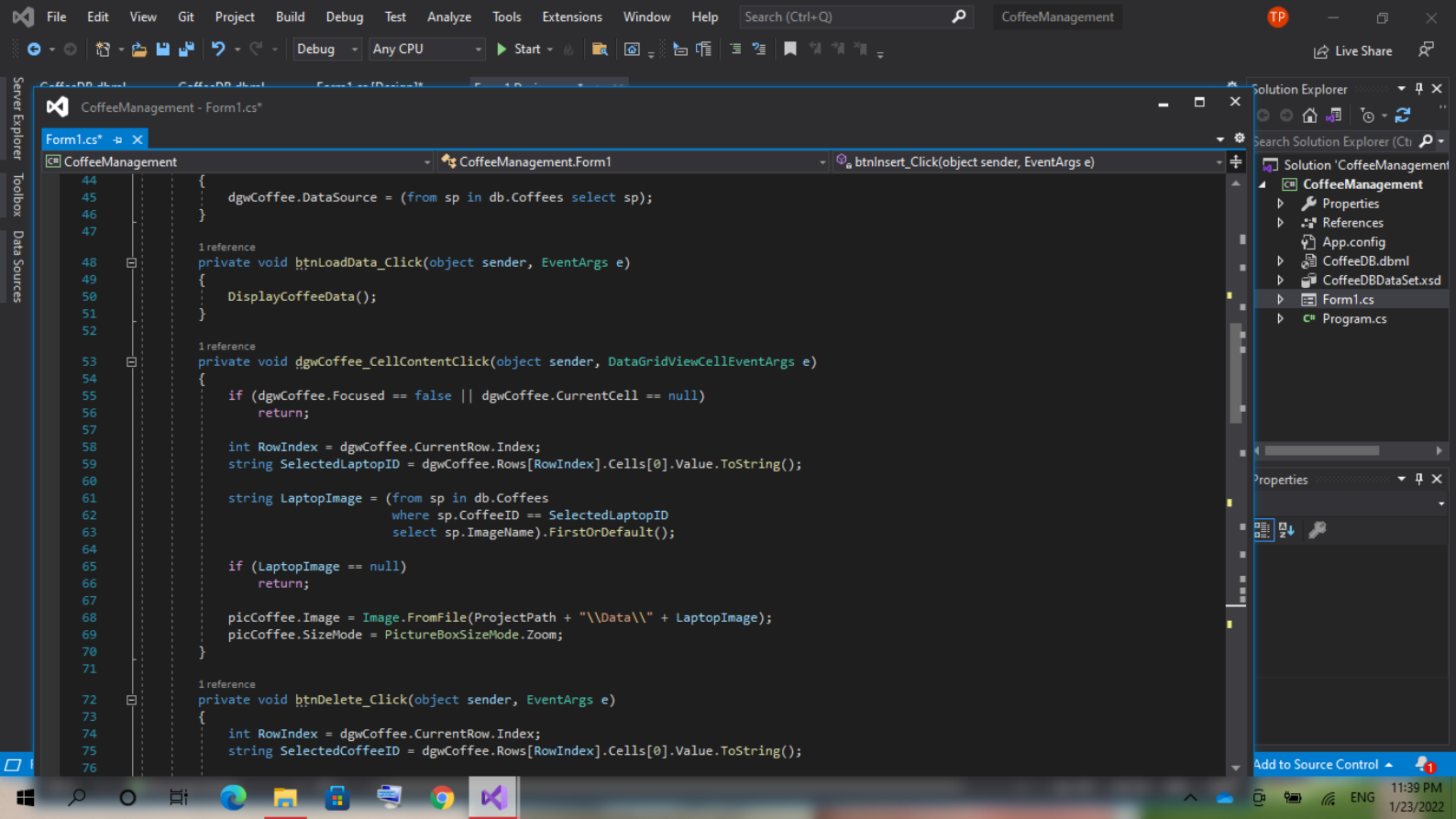
Add to Source Control

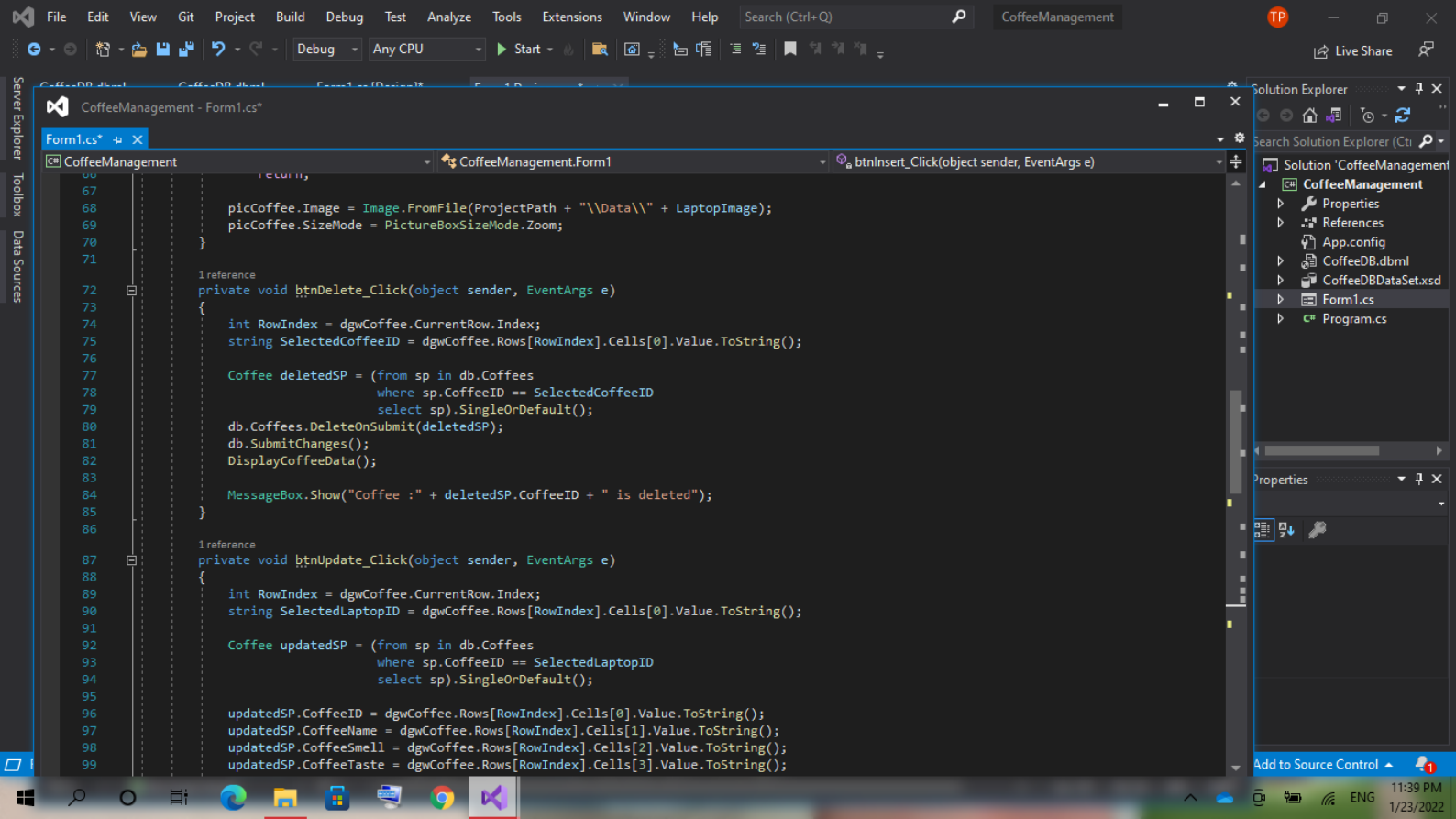
11:37 PM

1/23/2022









CoffeeManagement - Form1.cs*

Form1.cs*

CoffeeManagement

CoffeeManagement.Form1

btnInsert_Click(object sender, EventArgs e)

```
67  
68     picCoffee.Image = Image.FromFile(ProjectPath + "\\Data\\" + LaptopImage);  
69     picCoffee.SizeMode = PictureBoxSizeMode.Zoom;  
70 }  
71  
72 1 reference  
73 private void btnDelete_Click(object sender, EventArgs e)  
74 {  
75     int RowIndex = dgwCoffee.CurrentRow.Index;  
76     string SelectedCoffeeID = dgwCoffee.Rows[RowIndex].Cells[0].Value.ToString();  
77  
78     Coffee deletedSP = (from sp in db.Coffees  
79                         where sp.CoffeeID == SelectedCoffeeID  
80                         select sp).SingleOrDefault();  
81     db.Coffees.DeleteOnSubmit(deletedSP);  
82     db.SubmitChanges();  
83     DisplayCoffeeData();  
84     MessageBox.Show("Coffee : " + deletedSP.CoffeeID + " is deleted");  
85 }  
86  
87 1 reference  
88 private void btnUpdate_Click(object sender, EventArgs e)  
89 {  
90     int RowIndex = dgwCoffee.CurrentRow.Index;  
91     string SelectedLaptopID = dgwCoffee.Rows[RowIndex].Cells[0].Value.ToString();  
92  
93     Coffee updatedSP = (from sp in db.Coffees  
94                         where sp.CoffeeID == SelectedLaptopID  
95                         select sp).SingleOrDefault();  
96  
97     updatedSP.CoffeeID = dgwCoffee.Rows[RowIndex].Cells[0].Value.ToString();  
98     updatedSP.CoffeeName = dgwCoffee.Rows[RowIndex].Cells[1].Value.ToString();  
99     updatedSP.CoffeeSmell = dgwCoffee.Rows[RowIndex].Cells[2].Value.ToString();  
100     updatedSP.CoffeeTaste = dgwCoffee.Rows[RowIndex].Cells[3].Value.ToString();
```

Solution Explorer

Search Solution Explorer (Ctrl+Q)

Solution 'CoffeeManagement'

CoffeeManagement

Properties

References

App.config

CoffeeDB.dbml

CoffeeDBDataSet.xsd

Form1.cs

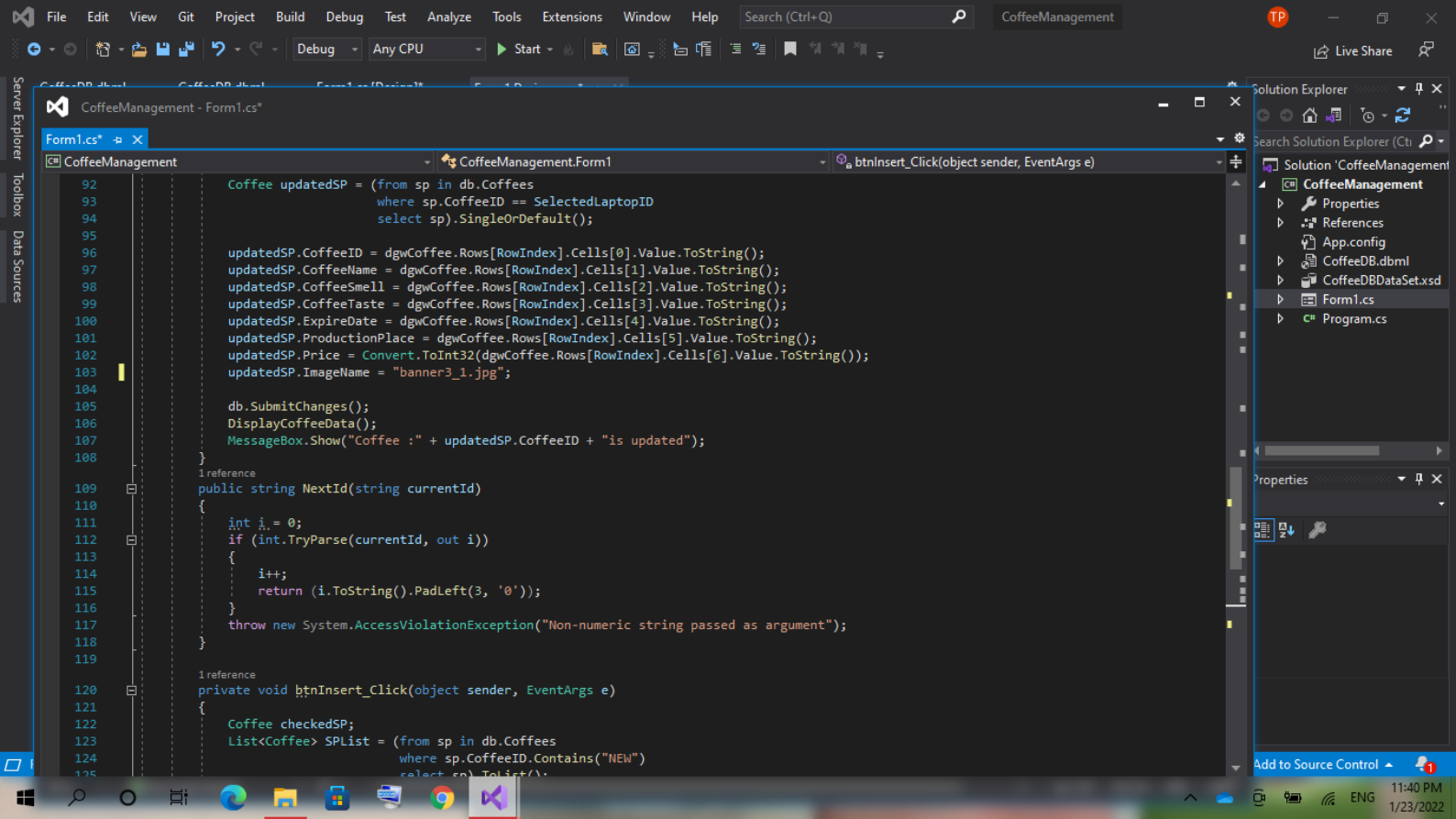
Program.cs

Properties

Add to Source Control

11:39 PM

1/23/2022



CoffeeManagement - Form1.cs*

Form1.cs*

CoffeeManagement

CoffeeManagement.Form1

btnInsert_Click(object sender, EventArgs e)

```
92         Coffee updatedSP = (from sp in db.Coffees
93                               where sp.CoffeeID == SelectedLaptopID
94                               select sp).SingleOrDefault();
95
96         updatedSP.CoffeeID = dgwCoffee.Rows[RowIndex].Cells[0].Value.ToString();
97         updatedSP.CoffeeName = dgwCoffee.Rows[RowIndex].Cells[1].Value.ToString();
98         updatedSP.CoffeeSmell = dgwCoffee.Rows[RowIndex].Cells[2].Value.ToString();
99         updatedSP.CoffeeTaste = dgwCoffee.Rows[RowIndex].Cells[3].Value.ToString();
100        updatedSP.ExpireDate = dgwCoffee.Rows[RowIndex].Cells[4].Value.ToString();
101        updatedSP.ProductionPlace = dgwCoffee.Rows[RowIndex].Cells[5].Value.ToString();
102        updatedSP.Price = Convert.ToInt32(dgwCoffee.Rows[RowIndex].Cells[6].Value.ToString());
103        updatedSP.ImageName = "banner3_1.jpg";
104
105        db.SubmitChanges();
106        DisplayCoffeeData();
107        MessageBox.Show("Coffee : " + updatedSP.CoffeeID + "is updated");
108    }
109    1 reference
110    public string NextId(string currentId)
111    {
112        int i = 0;
113        if (int.TryParse(currentId, out i))
114        {
115            i++;
116            return (i.ToString().PadLeft(3, '0'));
117        }
118        throw new System.AccessViolationException("Non-numeric string passed as argument");
119    }
120    1 reference
121    private void btnInsert_Click(object sender, EventArgs e)
122    {
123        Coffee checkedSP;
124        List<Coffee> SPList = (from sp in db.Coffees
125                              where sp.CoffeeID.Contains("NEW")
126                              select sp).ToList();
```

Solution Explorer

Search Solution Explorer (Ctrl+Q)

Solution 'CoffeeManagement'

CoffeeManagement

Properties

References

App.config

CoffeeDB.dbml

CoffeeDBDataSet.xsd

Form1.cs

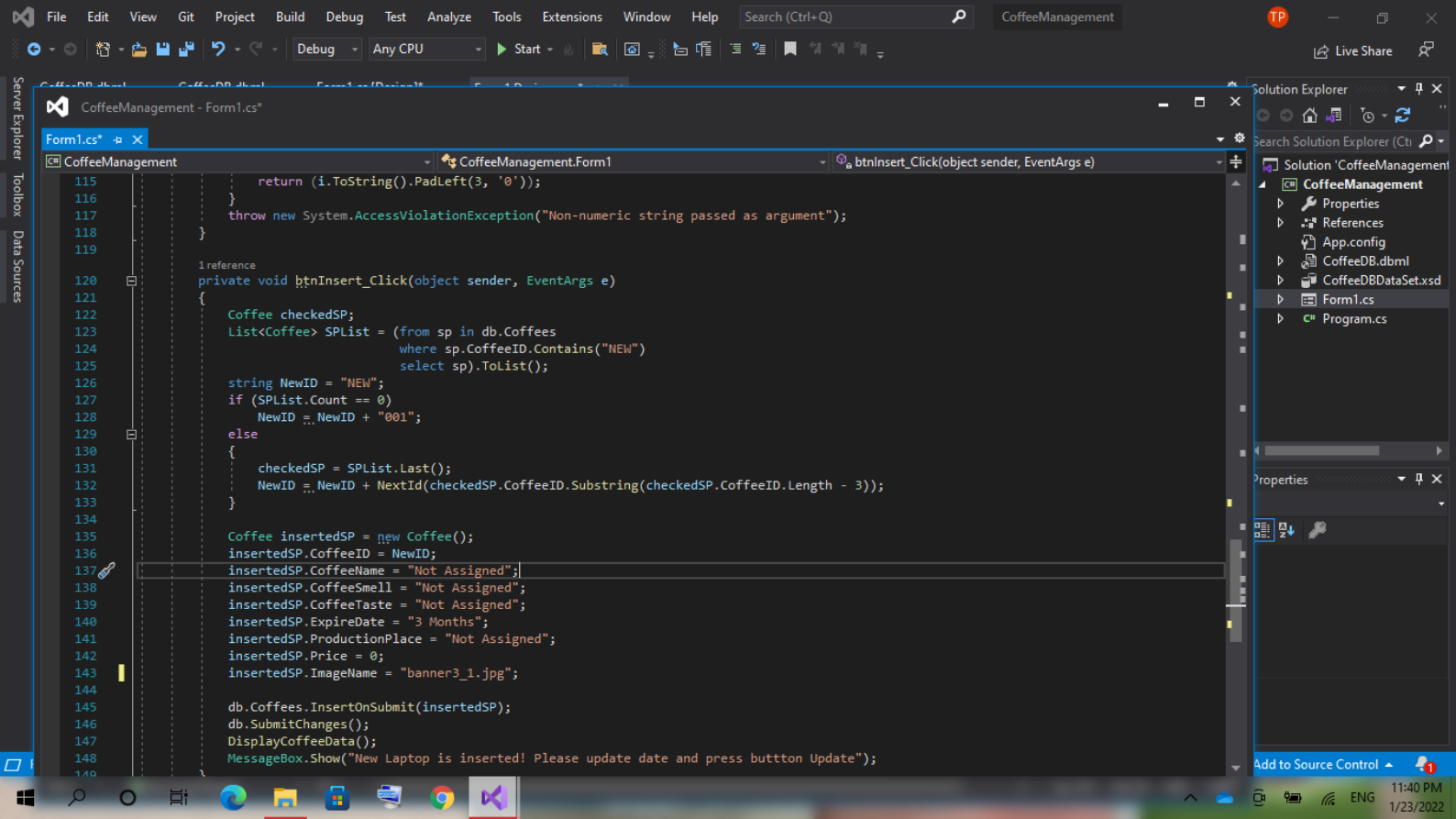
Program.cs

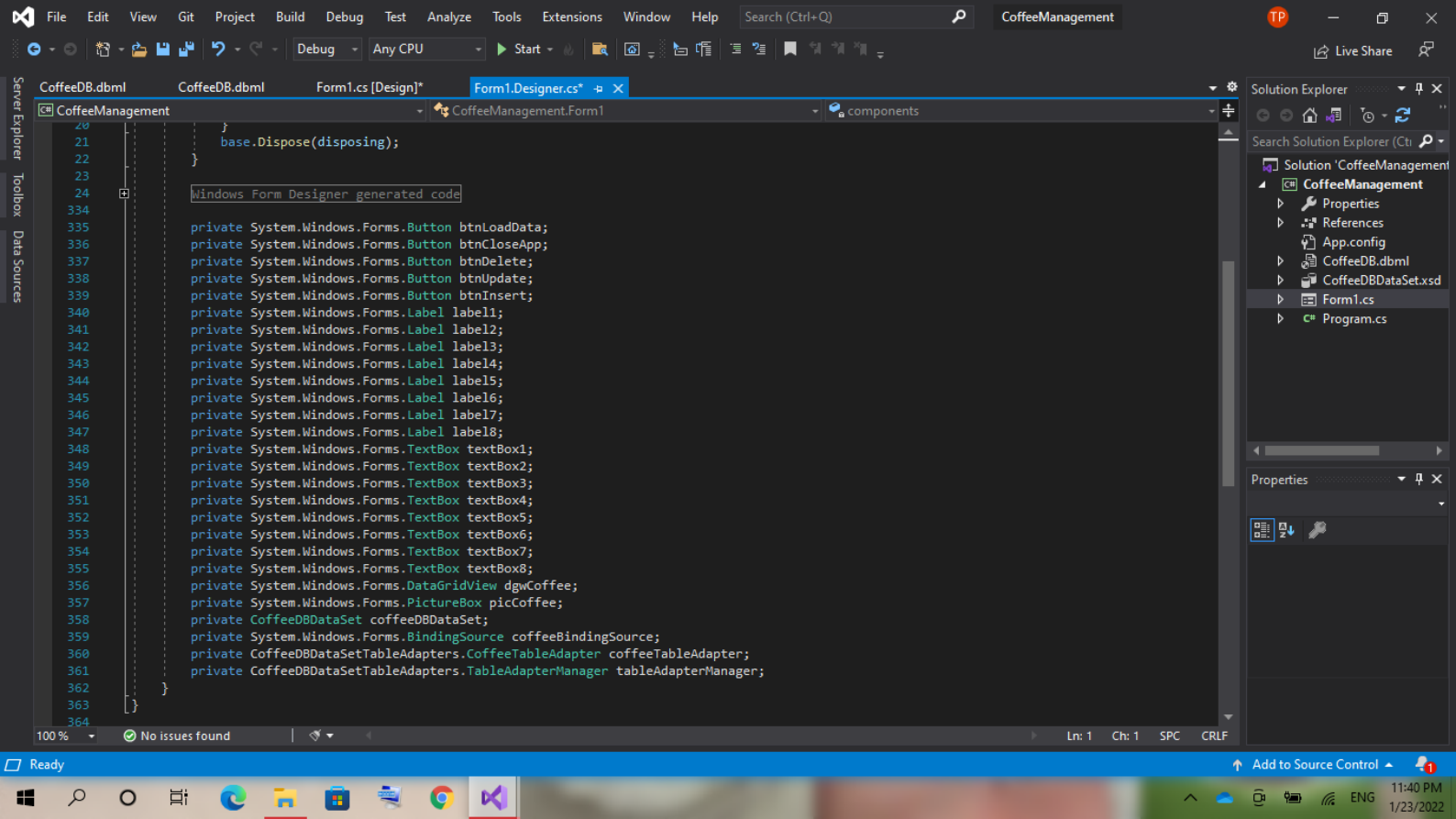
Properties

Add to Source Control

11:40 PM

1/23/2022





FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsWindowHelp

Search (Ctrl+Q)

TP

Live Share

Process: [4740] CoffeeManagement.exeLifecycle EventsThread:Stack Frame:

CoffeeDB.dbmlCoffeeDB.dbmlForm1.cs [Design]Form1.Designer.cs

CoffeeManagementCoffeeManagement.Form1components


Form1

Load Data From SQL ServerClose Application

Coffee ID: A001Coffee Name: ArabicaCoffee Smell: ACoffee Taste: AAExpire Date: 3 MonthsPrice: 180000Image Name: arabica.jpgCoffee Smell: AProduction Place: > 600m

CoffeeID	CoffeeName	CoffeeSmell	CoffeeTaste	ExpireDate
A001	Arabica	A	AA	3 Months
C001	Culi Robusta	B	BB	3 Months
M001	Moka	C	CC	3 Months
R001	Robusta	D	DD	3 Months

DeleteUpdateInsert



Diagnostics session: 10 seconds

EventsProcess Memory (MB)CPU (% of all processors)

SummaryEventsMemory UsageCPU Usage

Events

Show Events (0 of 0)

Memory Usage

Take Snapshot

CPU Usage

AutosSearch (Ctrl+E)Name

AutosLocalsWatch 1

BreakpointsException SettingsCommand WindowImmediate WindowOutput

Ready

Add to Source Control

11:40 PM1/23/2022

FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsWindowHelpSearch (Ctrl+Q)

Process: [4740] CoffeeManagement.exeLifecycle EventsThread:Stack Frame:

CoffeeDB.dbmlCoffeeDB.dbmlForm1.cs [Design]Form1.Designer.cs

CoffeeManagementCoffeeManagement.Form1components

Form1

Load Data From SQL ServerClose Application

Coffee ID: A001Coffee Name: ArabicaCoffee Taste: AACoffee Smell: AExpire Date: 3 MonthsPrice: 180000Image Name: banner3_1.jpgCoffee Smell: AProduction Place: > 600m

CoffeeID	CoffeeName	CoffeeSmell	CoffeeTaste	ExpireDate
A001	Arabica	A	AA	
C001	Culi Robusta	B	BB	
M001	Moka	C	CC	
R001	Robusta	D	DD	

DeleteUpdateInsert

Diagnostics session: 15 seconds

Events

Process Memory (MB)5656

CPU (% of all processors)

SummaryEventsMemory UsageCPU Usage

Events

Show Events (0 of 0)

Memory Usage

Take Snapshot

CPU Usage

Coffee :A001is updated

OK

CoffeeManagement.exe

Ready

11:41 PM1/23/2022

FileEditViewGitBuildDebugTestAnalyzeToolsExtensionsWindowHelp

Search (Ctrl+Q)

TP

Live Share

Process: [4740] CoffeeManagement.exeLifecycle EventsThread:Stack Frame:

CoffeeDB.dbmlCoffeeDB.dbmlForm1.cs [Design]Form1.Designer.cs

CoffeeManagementCoffeeManagement.Form1components

Form1

Load Data From SQL ServerClose Application

Coffee ID: A001Coffee Name: ArabicaCoffee Smell: ACoffee Taste: AACoffee Smell: AProduction Place: > 600m

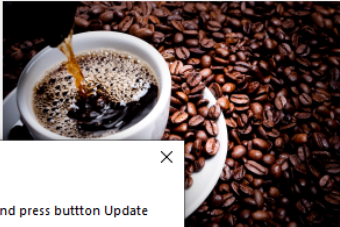
Price: 180000Image Name: banner3_1.jpg

Expire Date: 3 Months

CoffeeID	CoffeeName	CoffeeSmell	CoffeeTaste	ExpireDate
A001	Arabica	A	AA	3 Months
C001	Culi Robusta	B	BB	3 Months
M001	Moka	C	CC	3 Months
NEW001	Not Assigned	Not Assigned	Not Assigned	3 Months
R001	Robusta	D	Đ	3 Months

Insert

DeleteUpdate



Diagnostics session: 29 seconds

EventsProcess Memory (MB)CPU (% of all processors)

SummaryEventsMemory UsageCPU Usage

EventsShow Events (0 of 0)

Memory UsageTake Snapshot

CPU Usage

New Laptop is inserted! Please update date and press button UpdateOK

ReadyAutosSearch (Ctrl+E)NameAutosLocalsWatch 1BreakpointsException SettingsCommand WindowImmediate WindowOutput

11:41 PM1/23/2022

The screenshot shows the Visual Studio 2022 IDE with the following details:

- Menu Bar:** File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help.
- Toolbar:** Includes icons for undo, redo, save, run, and other development actions.
- Process:** [4740] CoffeeManagement.exe. Lifecycle Events and Thread are visible.
- Solution Explorer:** Shows the project structure with files like CoffeeDB.dbml, Form1.cs [Design], and Form1.Designer.cs.
- Form1 Designer:** Displays a form with fields for Coffee ID, Name, Smell, Taste, and Expire Date. It also includes a table of coffee data and a button to delete a coffee entry.
- Table Data:**

CoffeeID	CoffeeName	CoffeeSmell	CoffeeTaste	ExpireDate
C001	Culi Robusta	B	BB	3 Months
M001	Moka	C	CC	3 Months
NEW001	Not Assigned	Not Assigned	Not Assigned	3 Months
R001	Robusta	D	D	3 Months
- Dialog Box:** A small window titled 'Coffee :A001 is deleted' with an 'OK' button.
- Diagnostic Tools:** Shows a diagnostics session lasting 33 seconds, with a graph of process memory usage.
- Taskbar:** Displays the Windows taskbar with various application icons and the system clock showing 11:41 PM on 1/23/2022.

