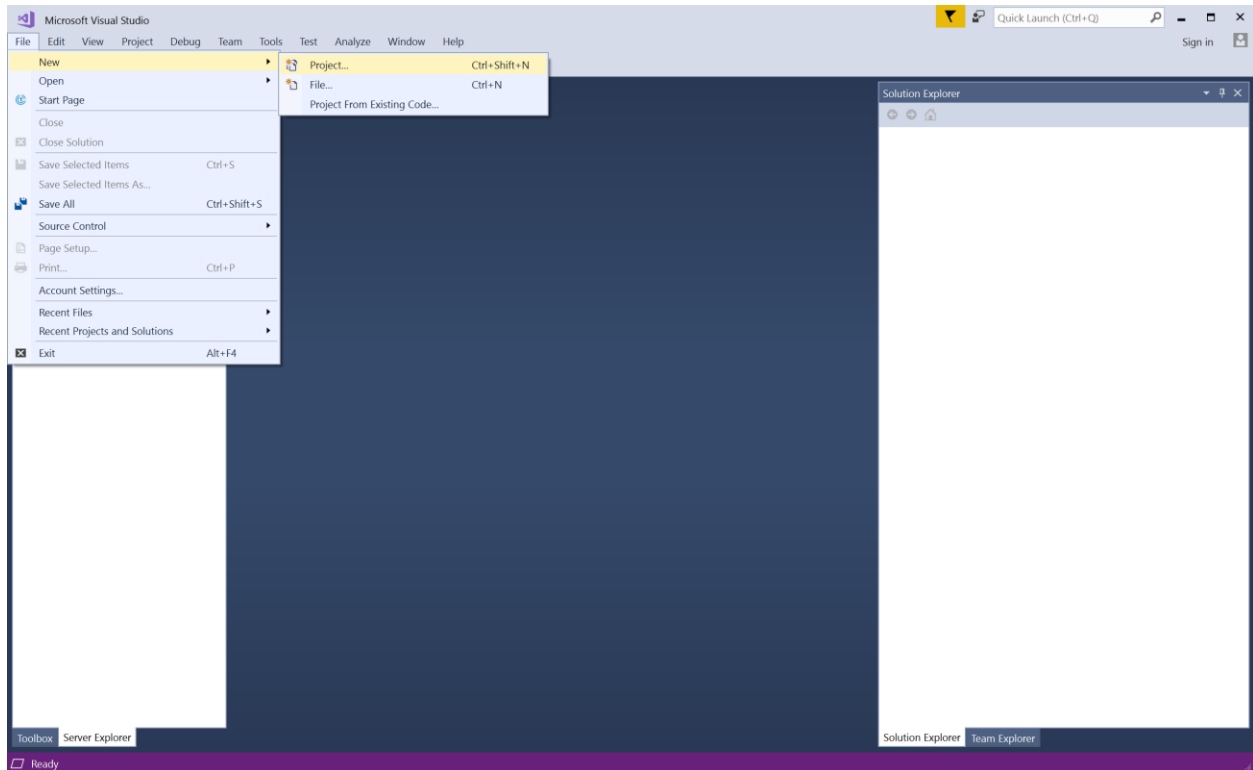
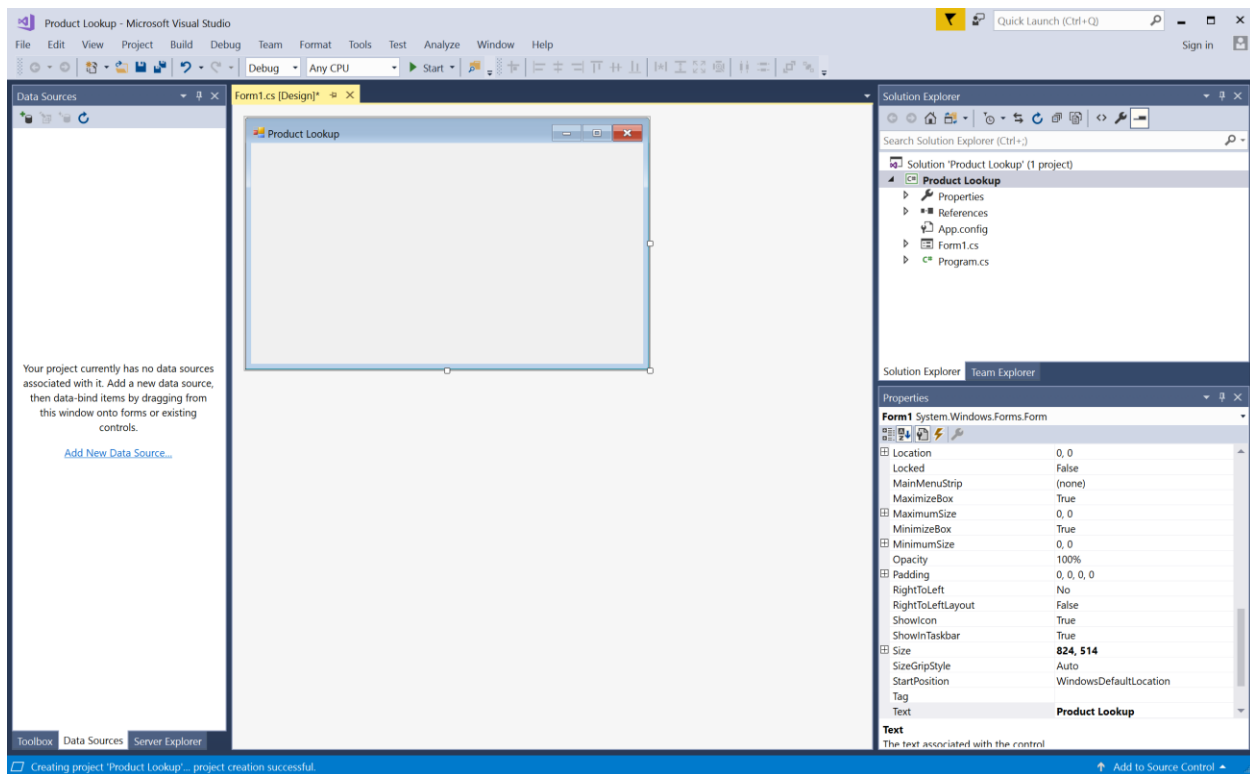
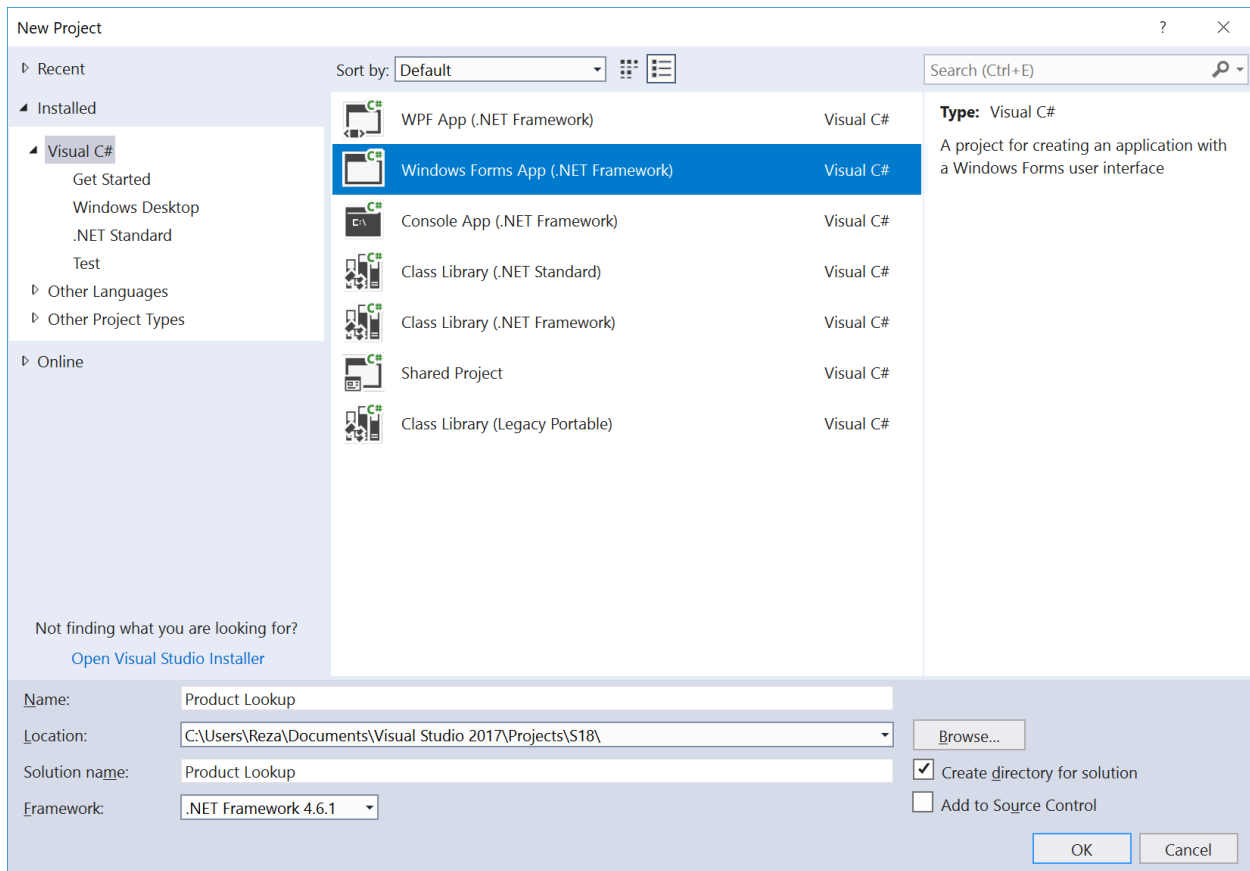


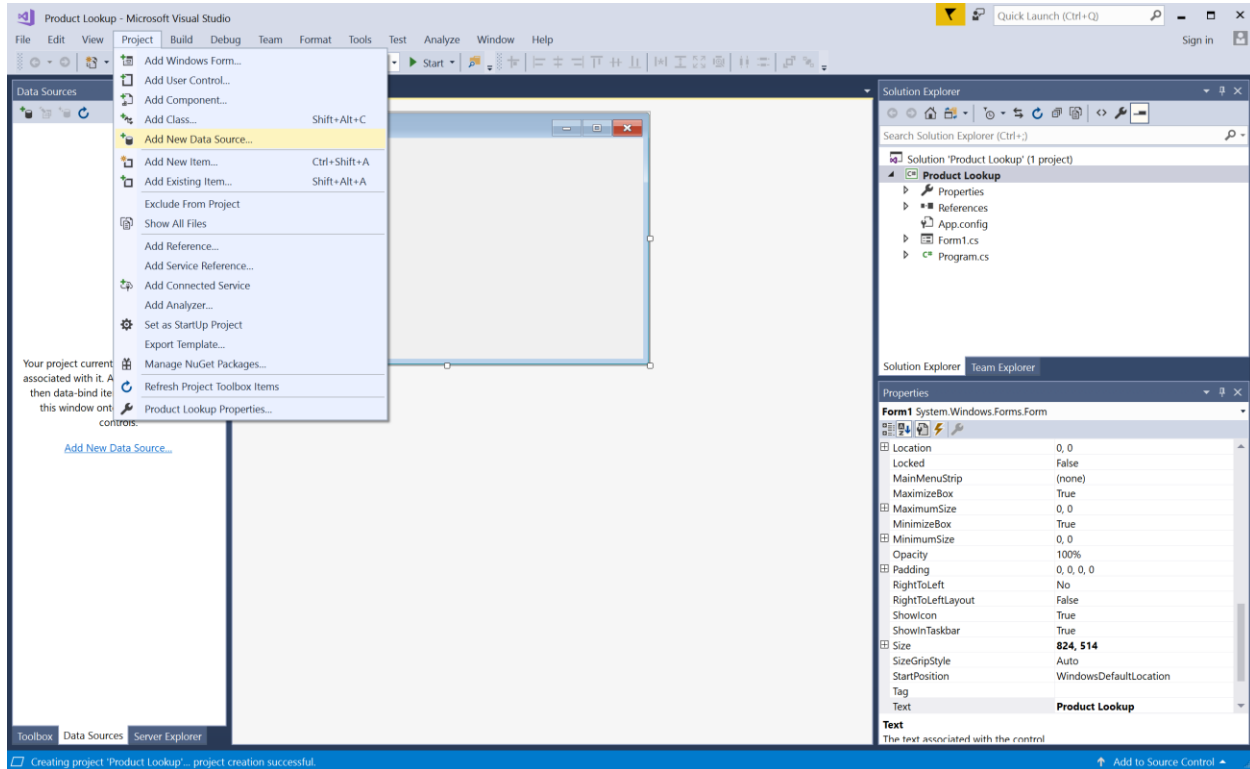
Creating the Product Lookup Application

Create a new project in Visual Studio named Product Lookup and change the name of the form to Product Lookup as well as shown below:






From the Project menu, select Add New Data Source






Select Database and click Next

Data Source Configuration Wizard ? X

 **Choose a Data Source Type**

Where will the application get data from?


 Database	 Service	 Object
---	--	---

Lets you connect to a database and choose the database objects for your application.


< Previous **Next >** Finish Cancel

Select Dataset and click Next

Data Source Configuration Wizard ? ×

 **Choose a Database Model**

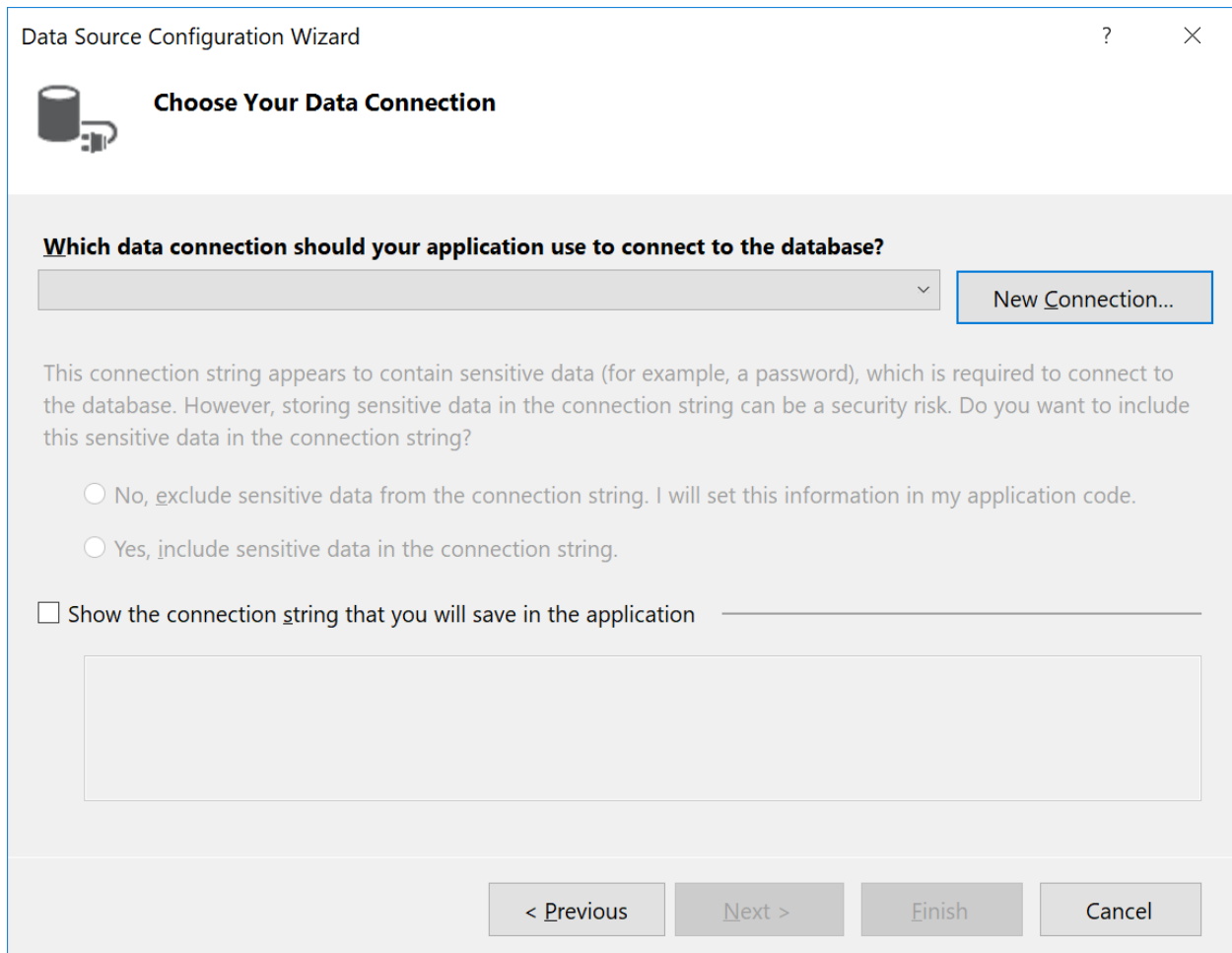
What type of database model do you want to use?

 Dataset

The database model you choose determines the types of data objects your application code uses. A dataset file will be added to your project.

< Previous **Next >** Finish Cancel

Click New Connection



The screenshot shows the 'Data Source Configuration Wizard' window. The title bar includes a question mark and a close button. The main heading is 'Choose Your Data Connection' with a database icon. Below this, a question asks which data connection to use, with a dropdown menu and a 'New Connection...' button. A text block explains the security implications of sensitive data in the connection string. Two radio buttons allow the user to choose whether to include sensitive data. A checkbox labeled 'Show the connection string that you will save in the application' is followed by a large text area. At the bottom, there are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'.

Data Source Configuration Wizard

Choose Your Data Connection

Which data connection should your application use to connect to the database?

New Connection...

This connection string appears to contain sensitive data (for example, a password), which is required to connect to the database. However, storing sensitive data in the connection string can be a security risk. Do you want to include this sensitive data in the connection string?

☐ No, exclude sensitive data from the connection string. I will set this information in my application code.

☐ Yes, include sensitive data in the connection string.

☐ Show the connection string that you will save in the application

< Previous Next > Finish Cancel

In the Add Connection window, make sure Microsoft SQL Server Database File (SqlClient) is the selected data source

In the Add Connection window, click Browse, and go to the location of ProductDB.mdf file that you saved in the previous lab.

Add Connection?×

Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.

Data source:

Microsoft SQL Server Database File (SqlClient)

Change...

Database file name (new or existing):

Browse...

Log on to the server

☒ Use Windows Authentication

☐ Use SQL Server Authentication

User name:

Password:

☐ Save my password

Advanced...

Test Connection

OK

Cancel

Page 7 of 25

Select the ProductDB.mdf file. Click OK

Add Connection ? X

Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.

Data source:

Microsoft SQL Server Database File (SqlClient) Change...

Database file name (new or existing):

C:\Users\Reza\Desktop\ProductDB.mdf Browse...

Log on to the server

☒ Use Windows Authentication

☐ Use SQL Server Authentication

User name:

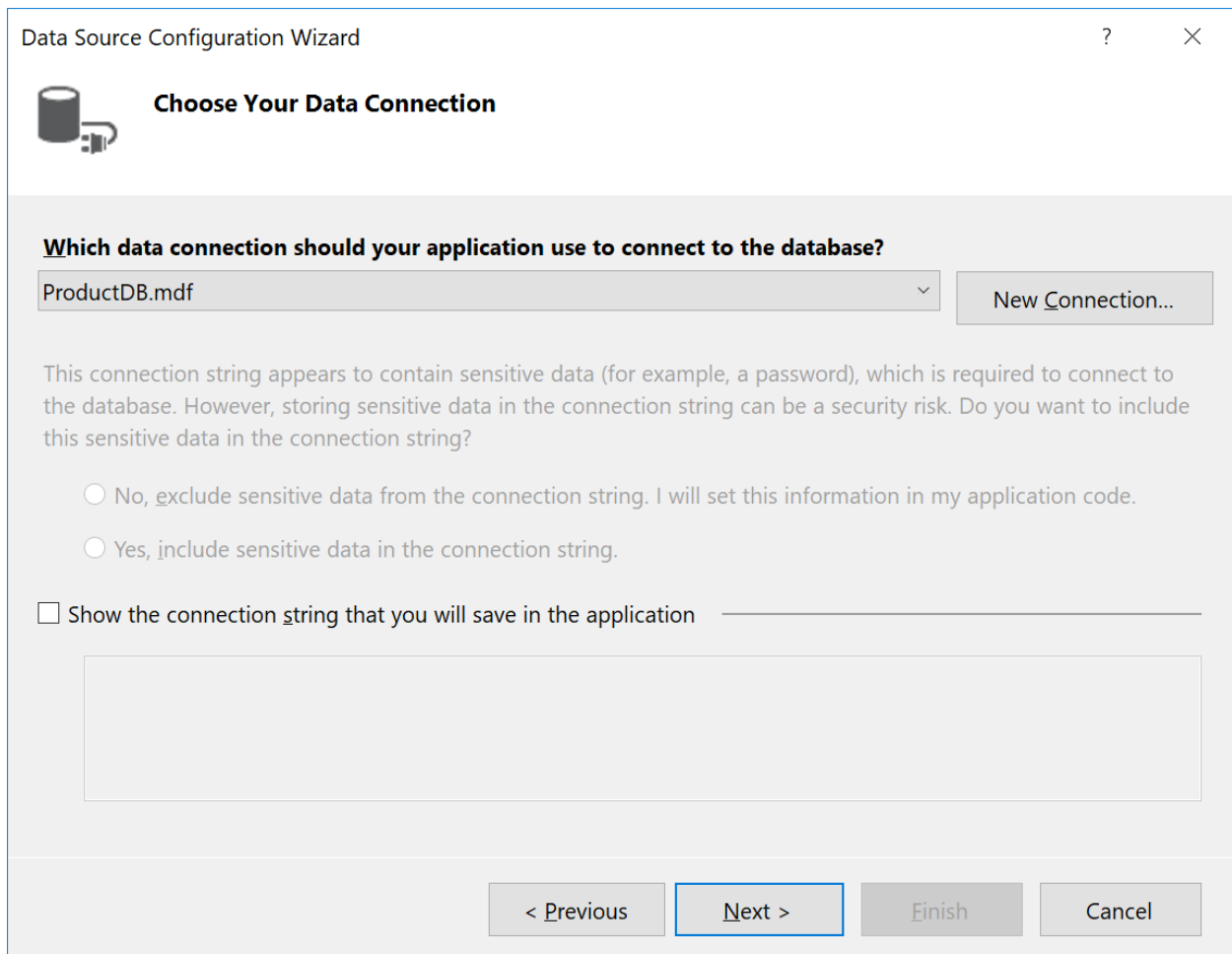
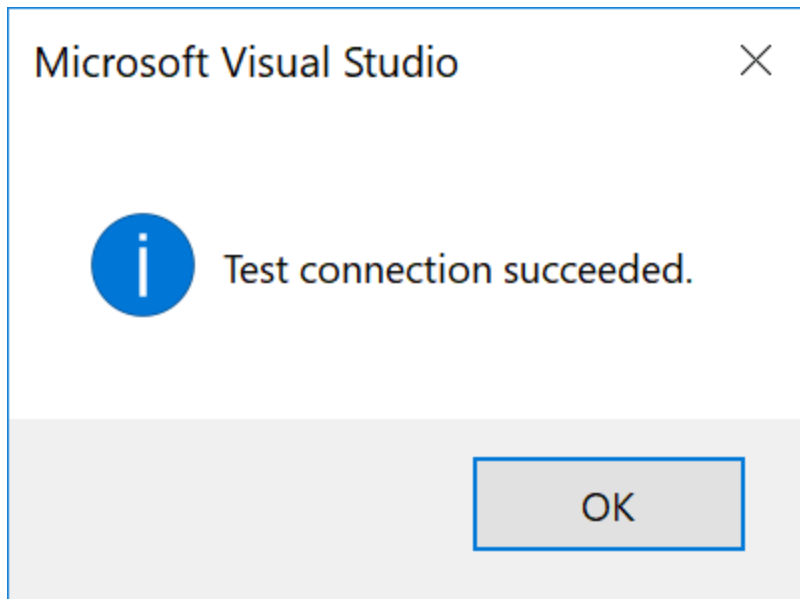
Password:

☐ Save my password

Advanced...

Test Connection OK Cancel

Click Test Connection to test the connection to the database



Click Next



The connection you selected uses a local data file that is not in the current project. Would you like to copy the file to your project and modify the connection?

If you copy the data file to your project, it will be copied to the project's output directory each time you run the application. Press F1 for information on controlling this behavior.


Yes

No

Help

Click Yes

Data Source Configuration Wizard?×

**Save the Connection String to the Application Configuration File**

Storing connection strings in your application configuration file eases maintenance and deployment. To save the connection string in the application configuration file, enter a name in the box and then click Next.

Do you want to save the connection string to the application configuration file?

☒ Yes, save the connection as:

ProductDBConnectionString

< Previous

Next >


Finish

Cancel

Click Next

Select the Product table as the database object, and click Finish

Data Source Configuration Wizard

 **Choose Your Database Objects**

Which database objects do you want in your dataset?

☒ Tables
☐ Views
☐ Stored Procedures
☐ Functions

DataSet name:
ProductDBDataSet

< Previous Next > **Finish** Cancel

**Choose Your Database Objects**

Which database objects do you want in your dataset?

☒ Tables

- ☒ Product
- ☐ Views
- ☐ Stored Procedures
- ☐ Functions

DataSet name:

ProductDBDataSet

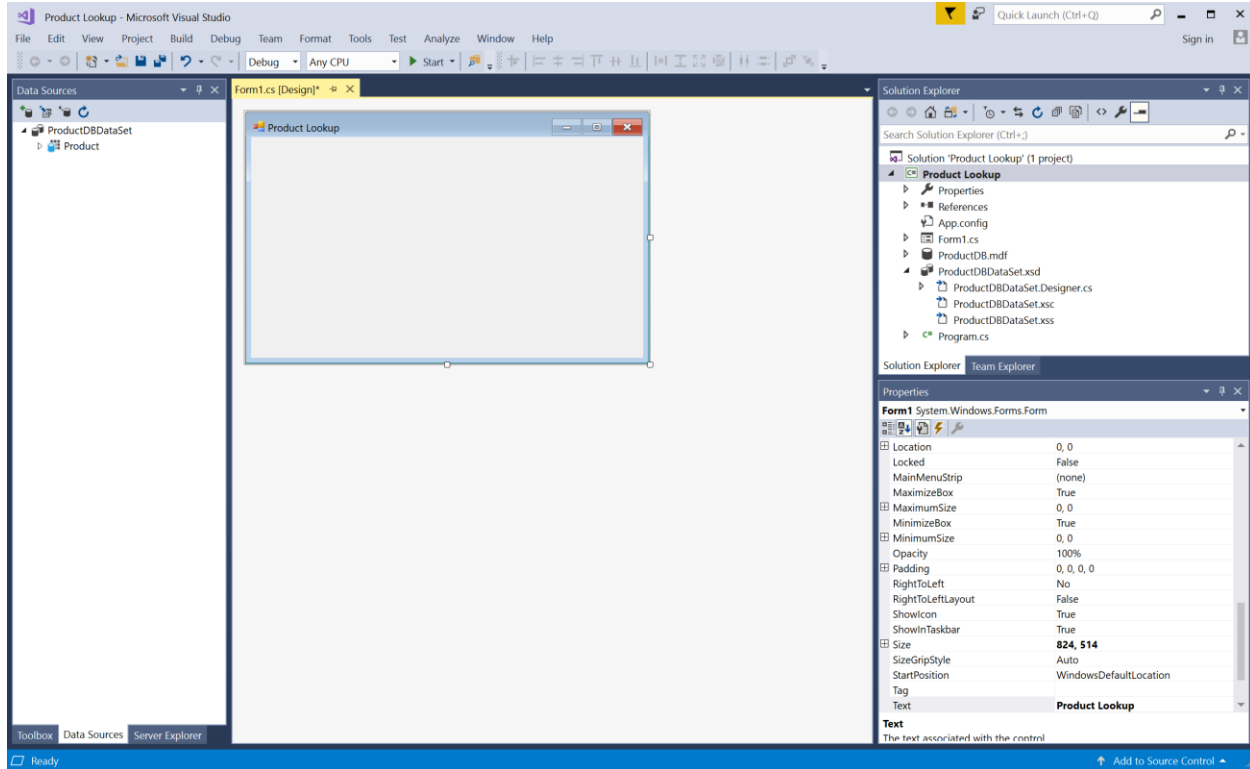
< Previous

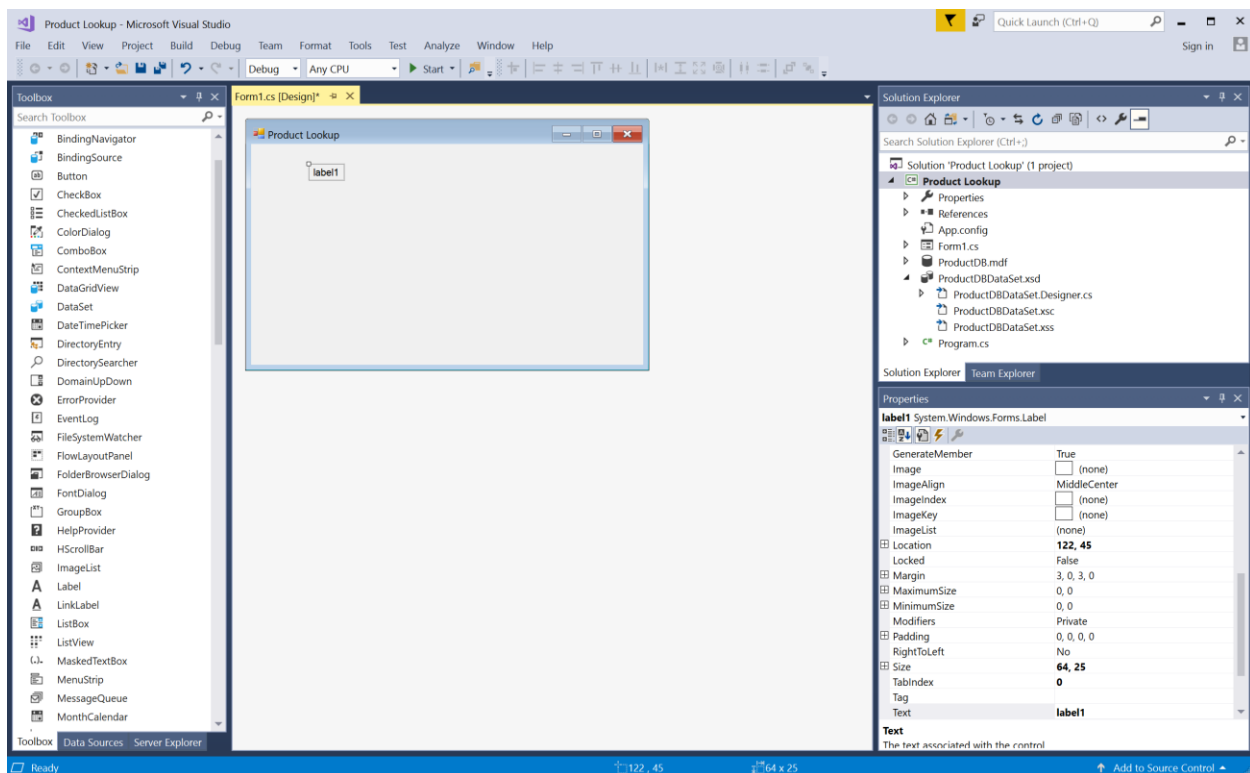
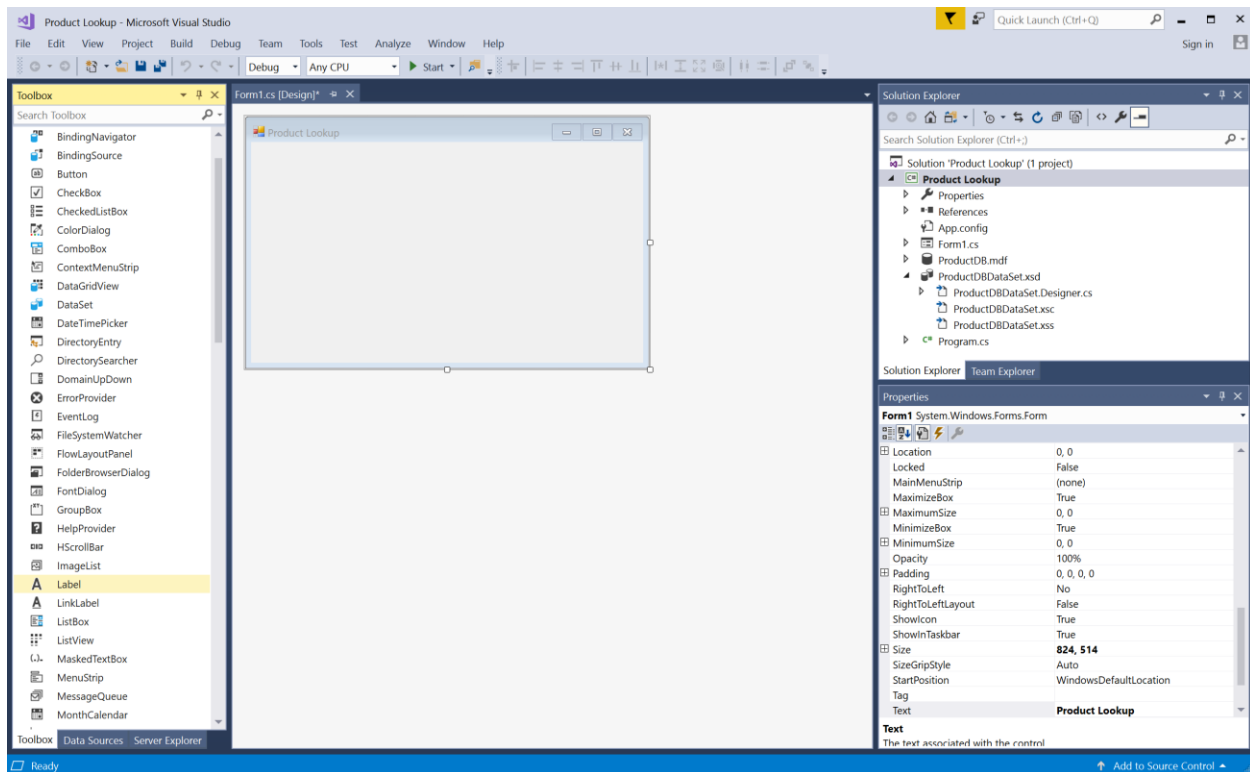
Next >

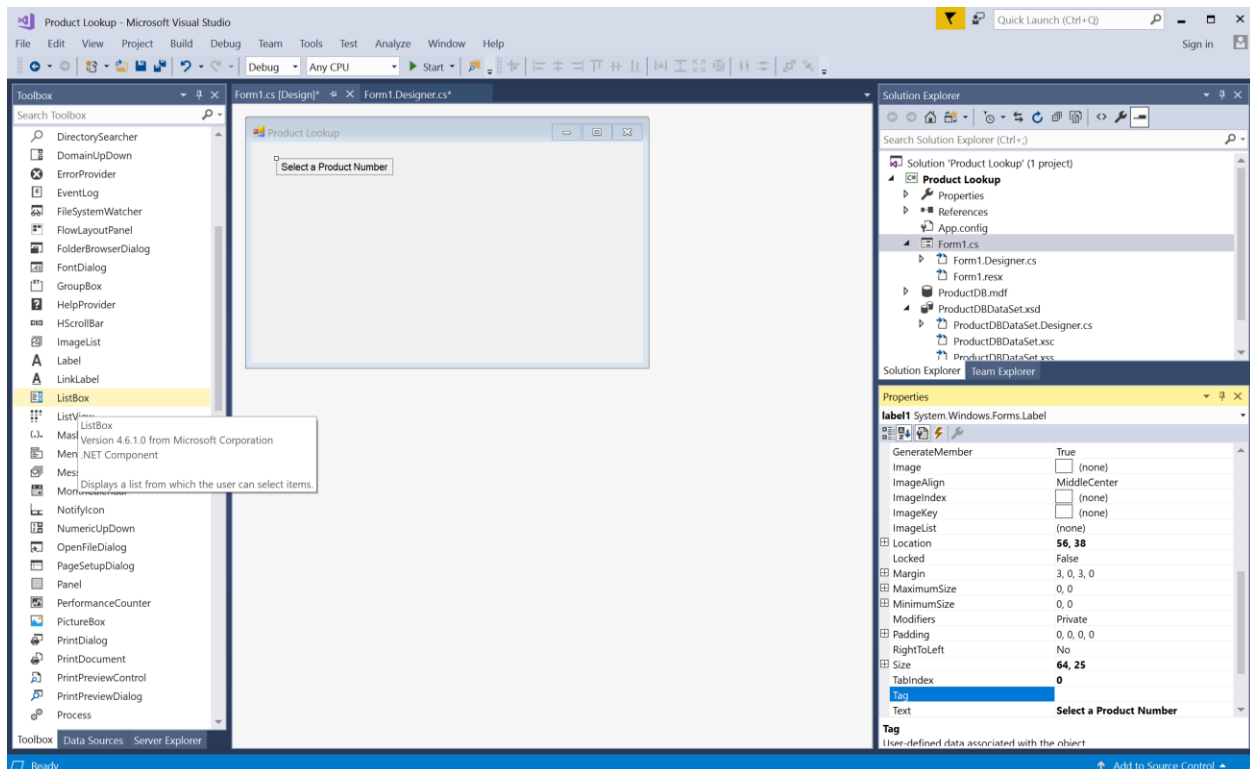
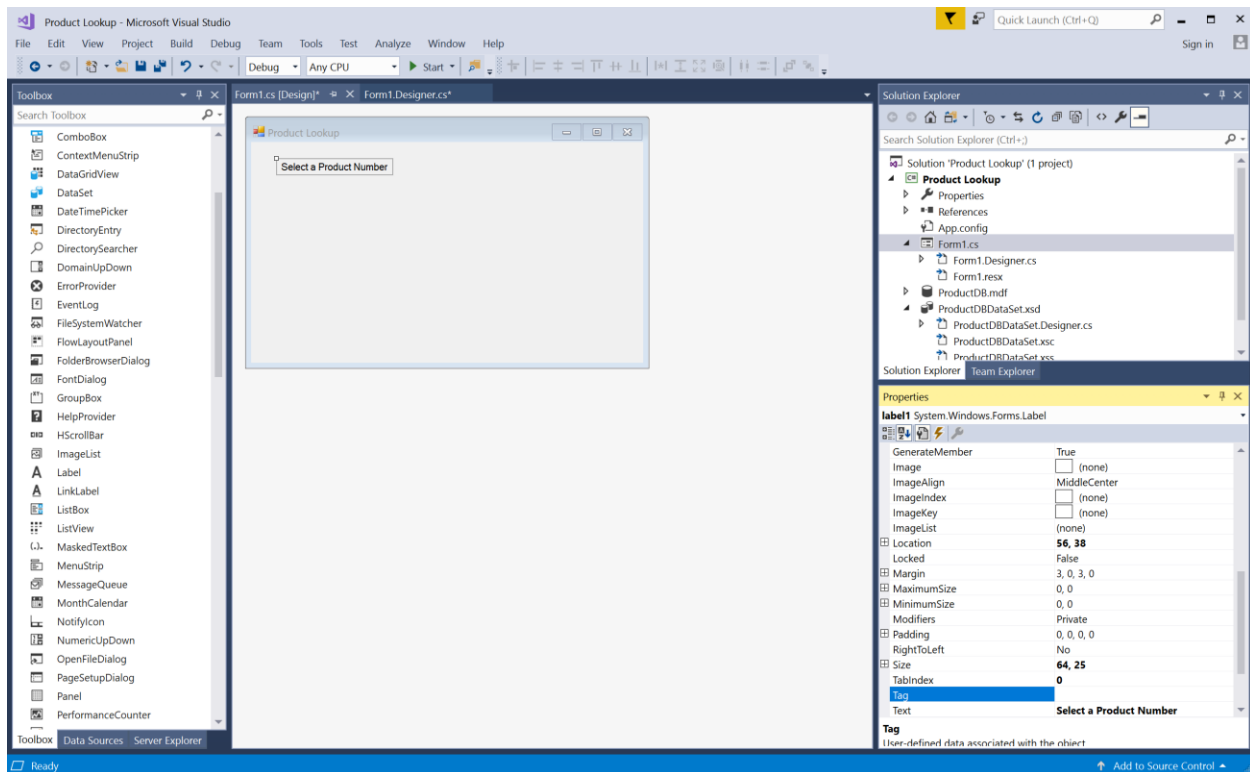
Finish

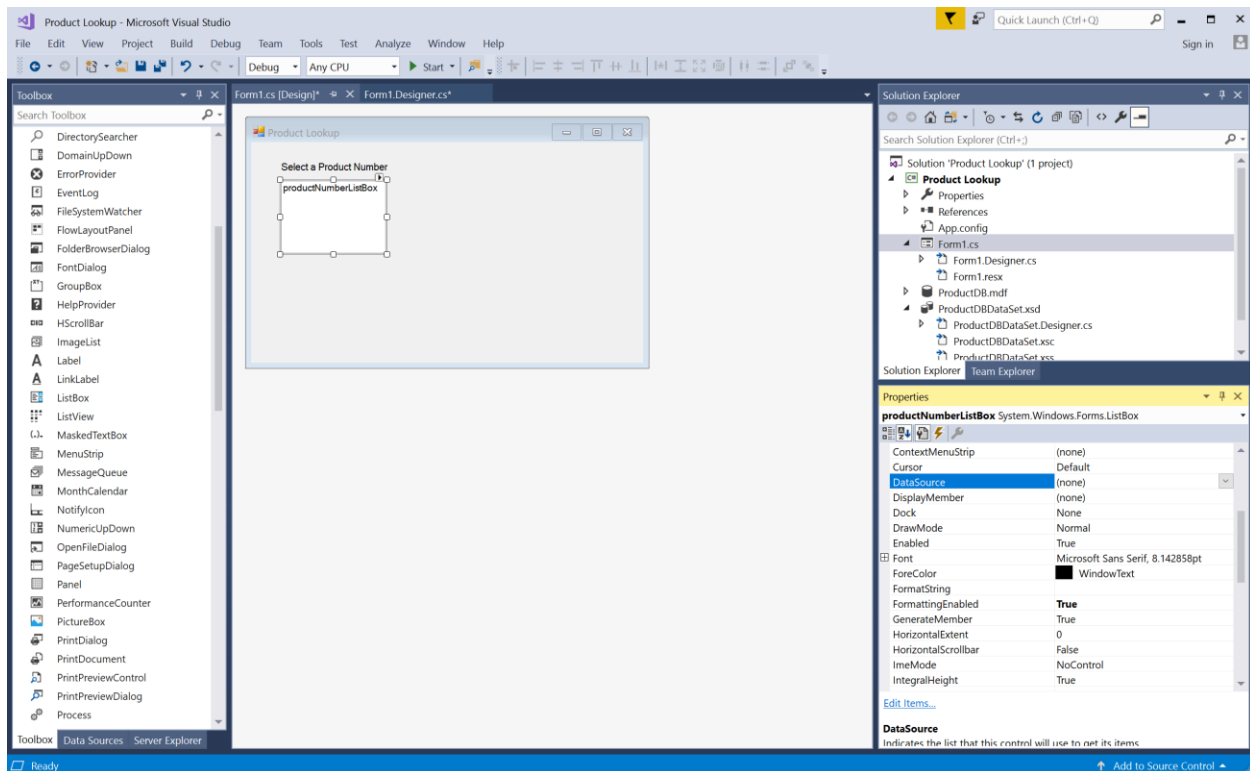
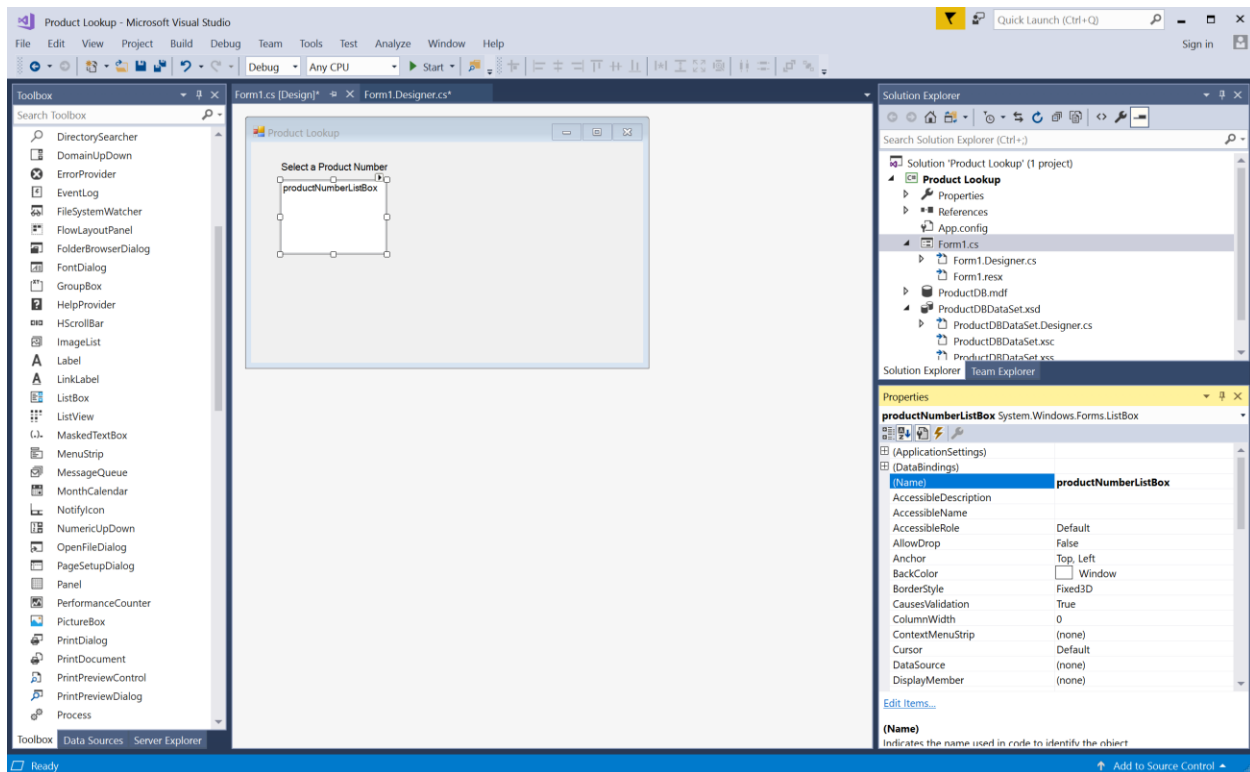
Cancel

Create a ListBox control named productNumberListBox. Just above the ListBox, place a Label control that displays “Select a Product Number”.

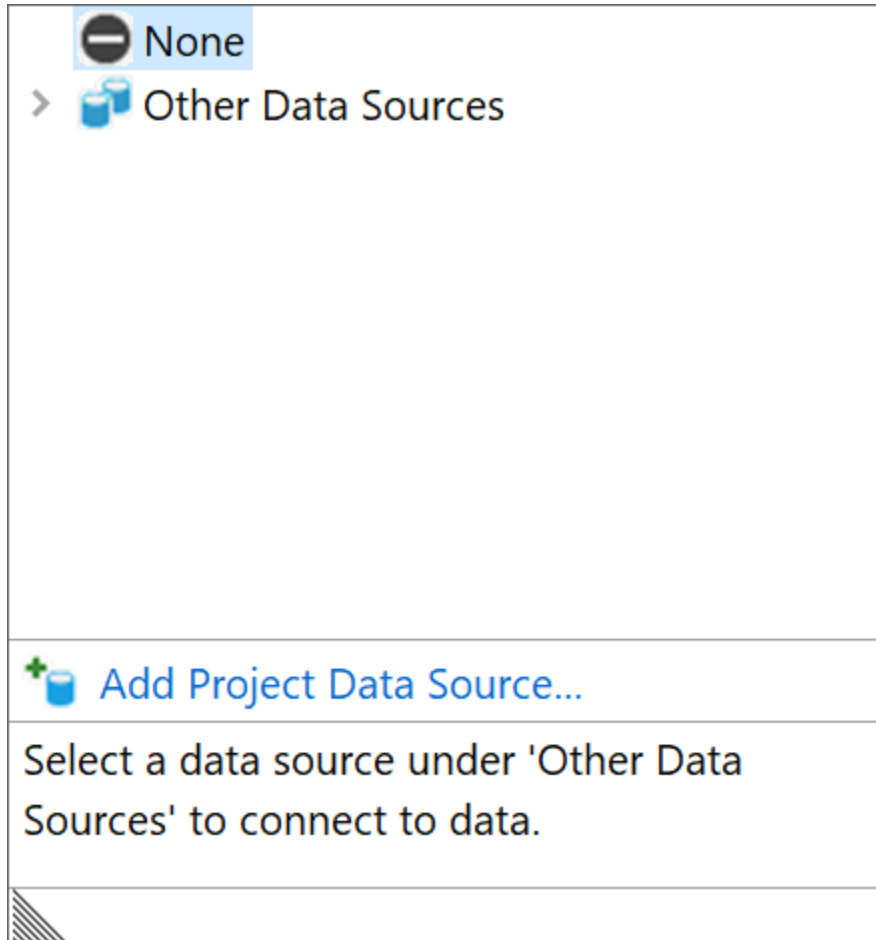


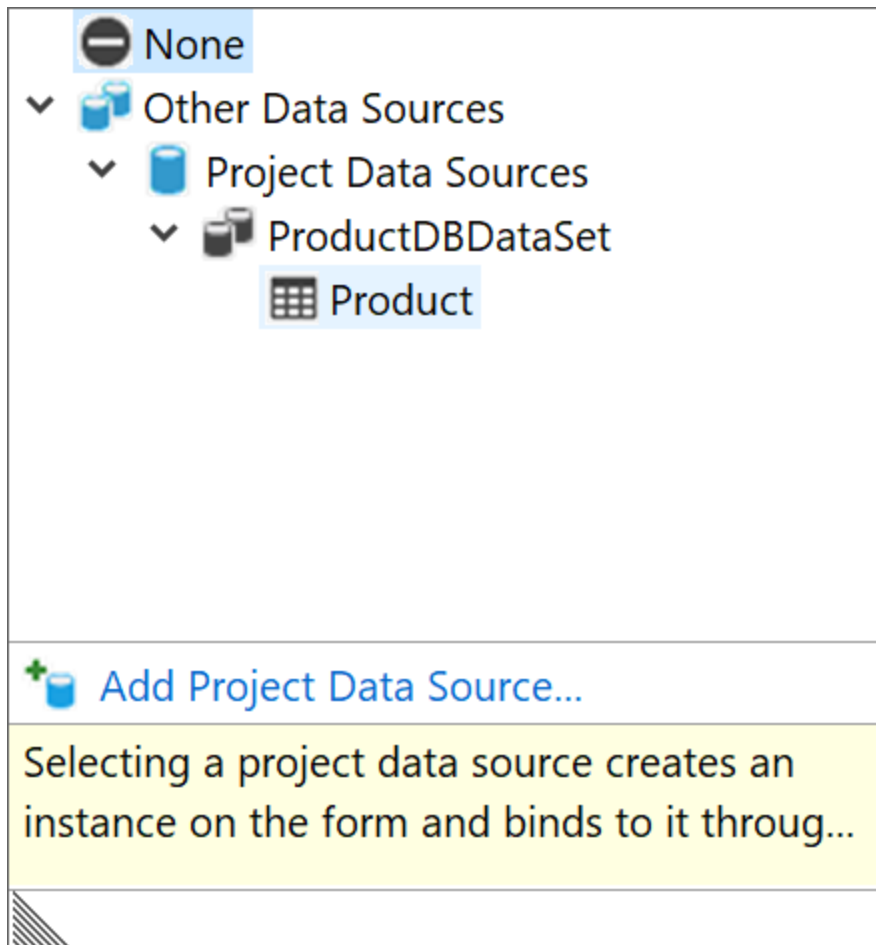




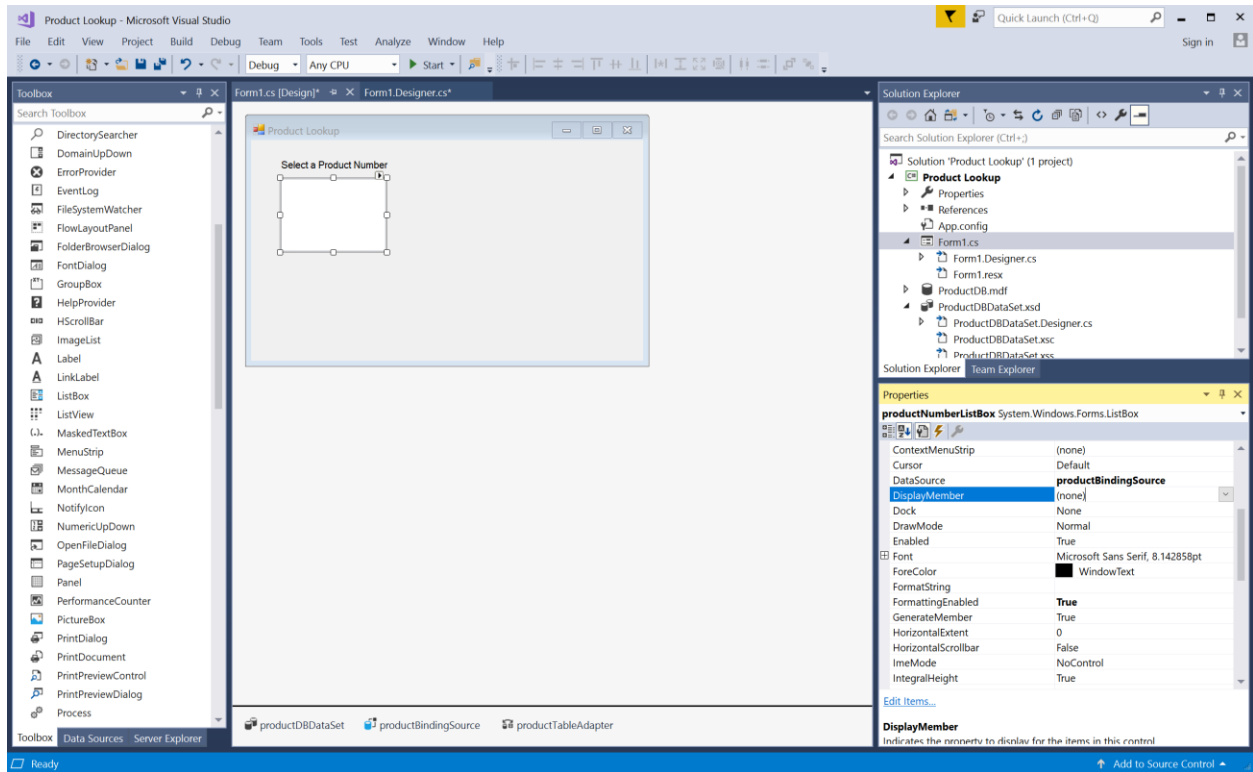


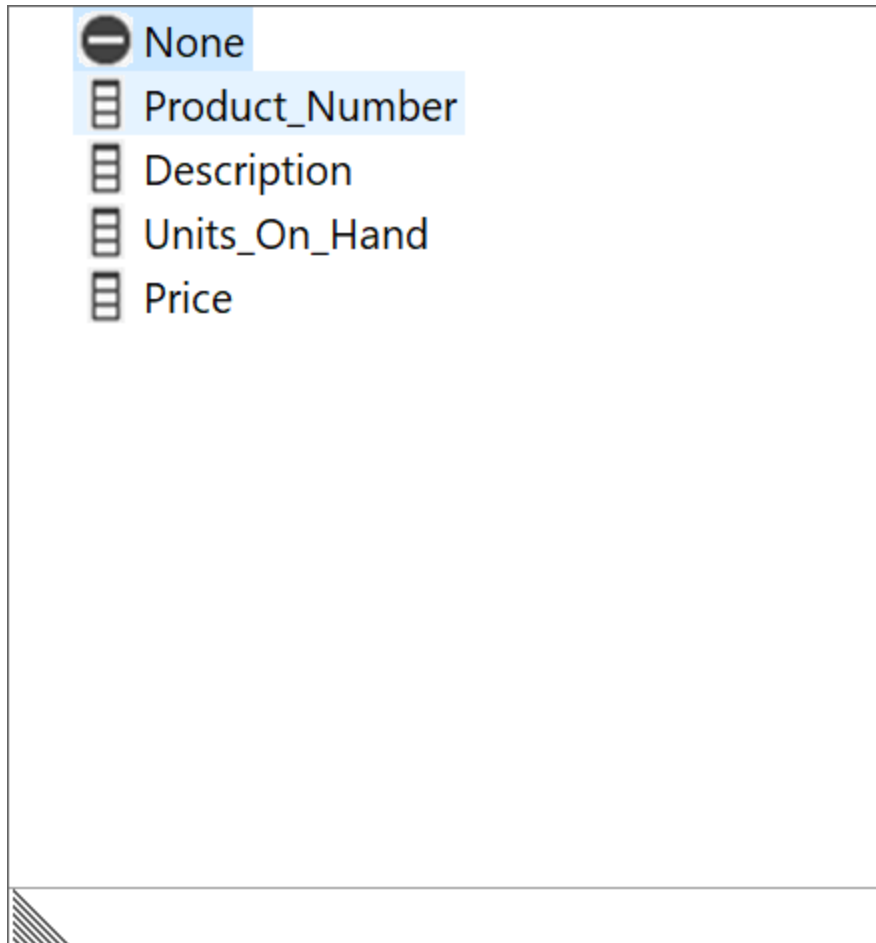
Select the ListBox control. In the Properties window, select the DataSource property and then click the down arrow that appears next to it. In the list that pops up, expand Other Data Sources, then expand Project Data Sources, then expand ProductDBDataSet, and then select Product.





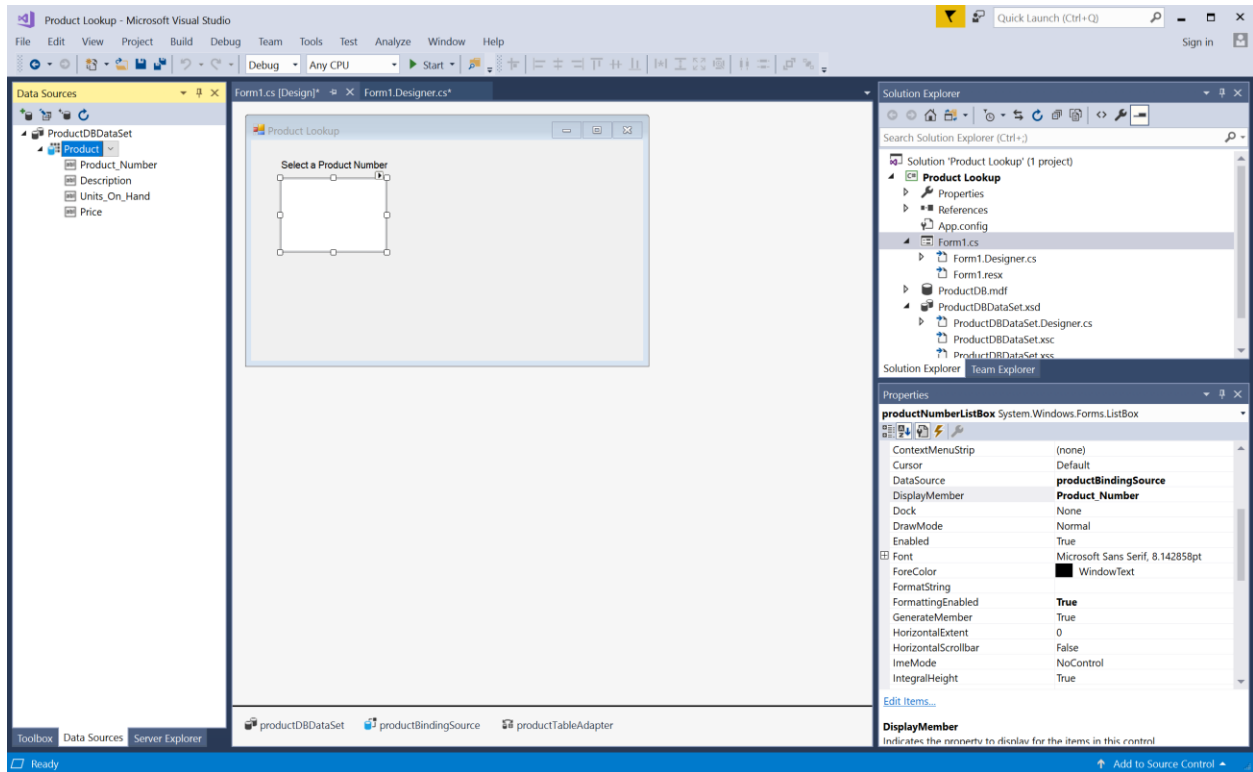
Select the ListBox control's DisplayMember property and then click the down arrow that appears next to it. In the list that pops up, select Product_Number.





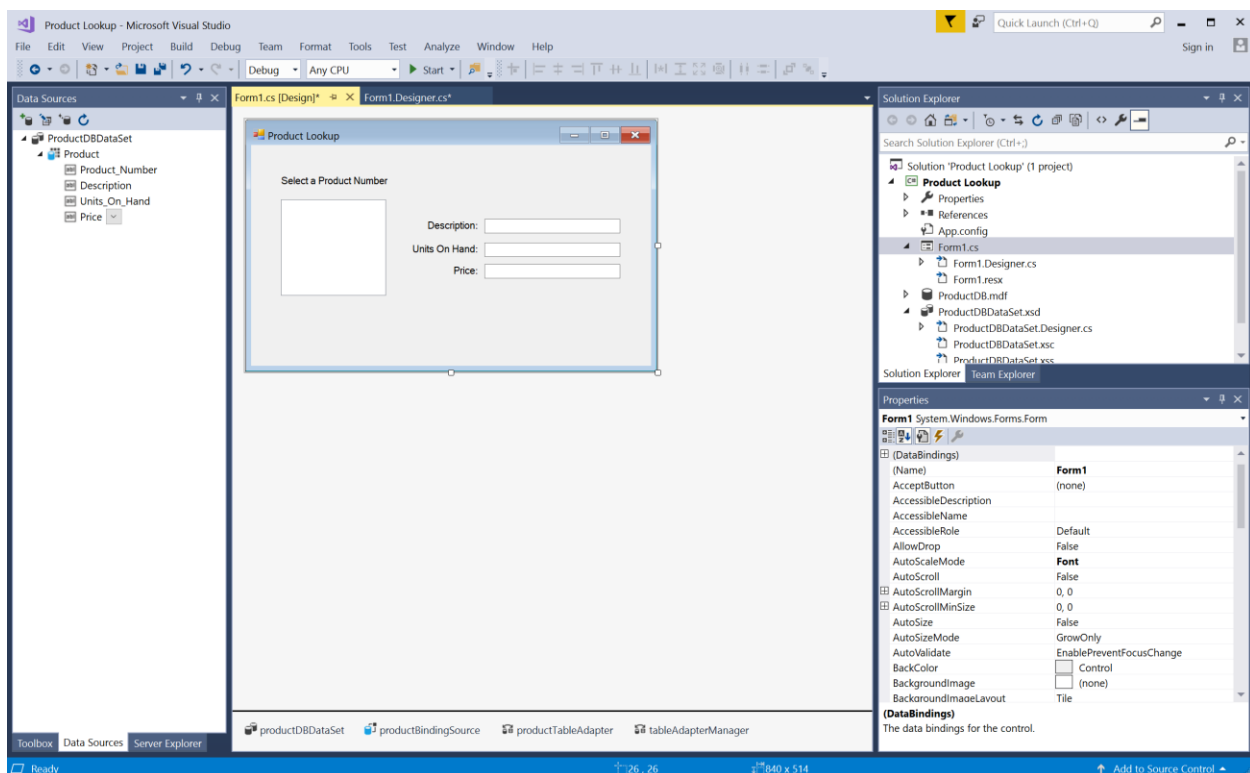
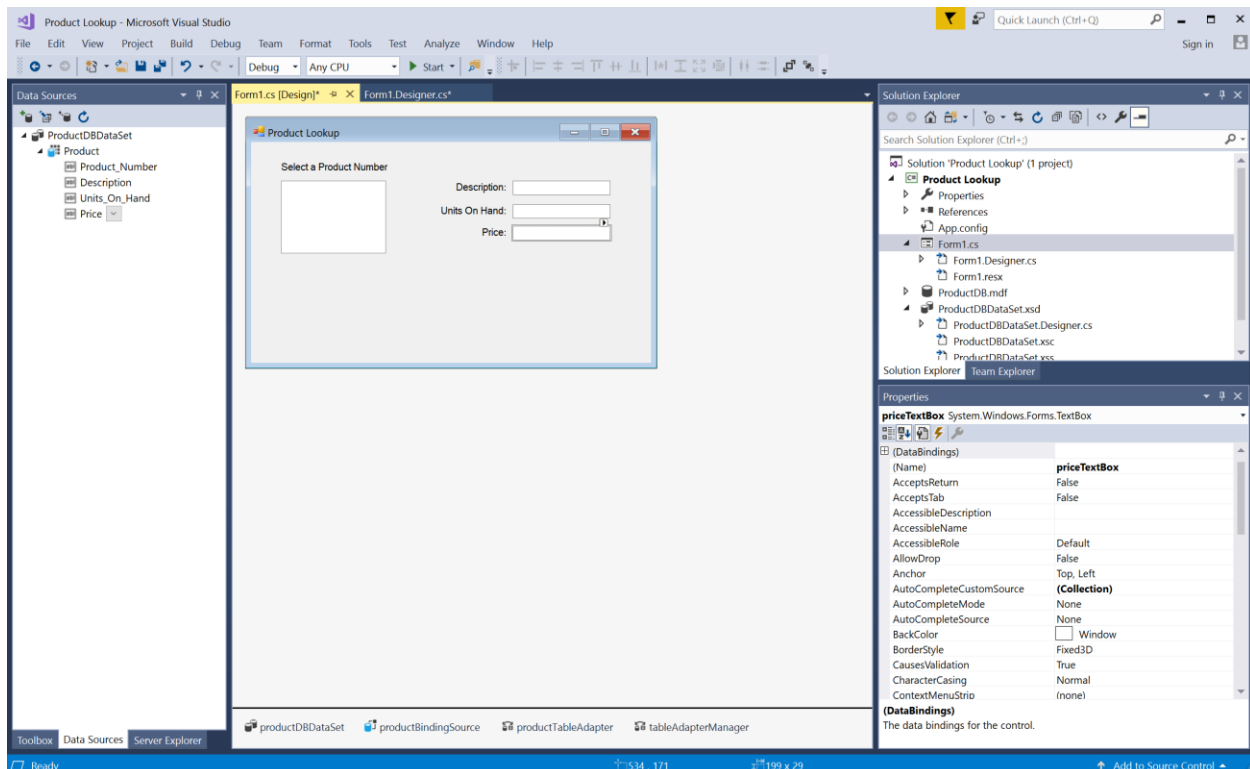
In the Data Sources window, set the Product table's view to Details

In the Data Sources window, expand the Product table so the column names are displayed



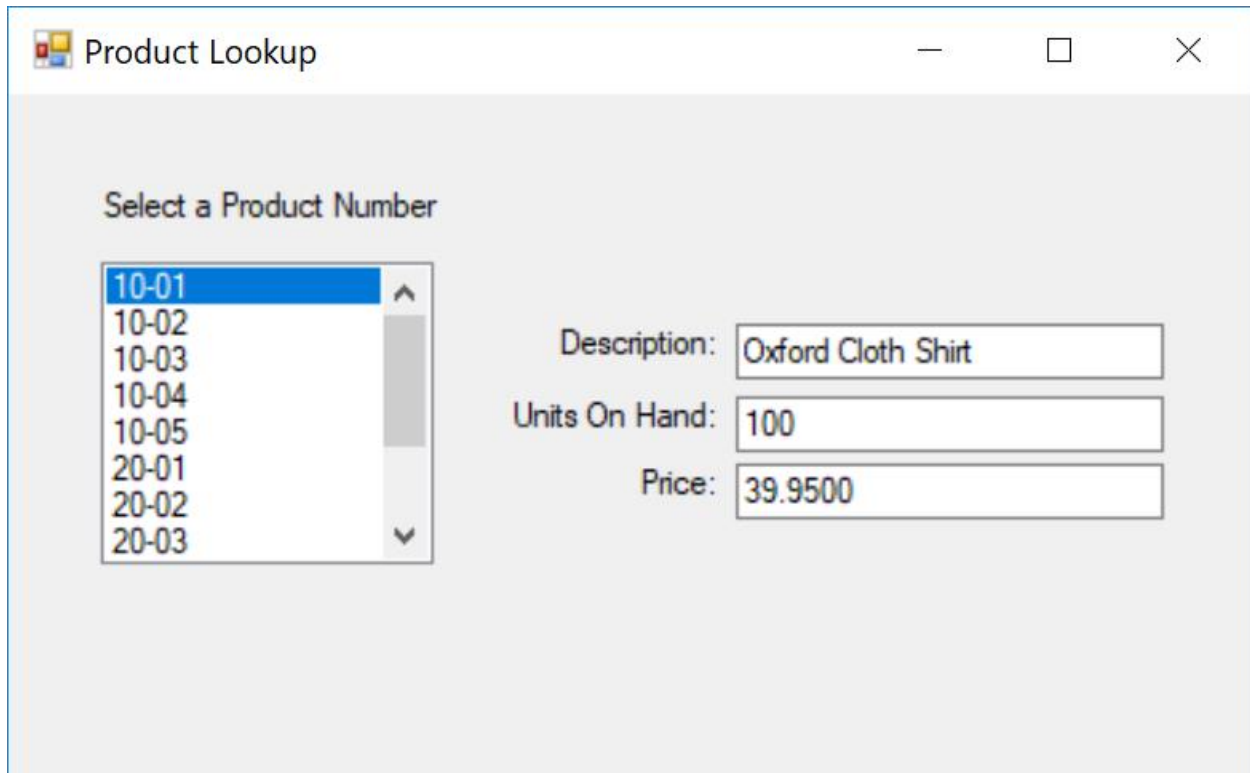
One at a time, drag the Description, Units_On_Hand, and Price columns from the Data Sources window onto the form. Place them on the form as shown.

Resize the form so it appears similar to that shown



Save the project and run the application. The application's form should appear similar to following screen capture.

Notice that the list box contains a list of all the product numbers in the Product table. When you select a product number in the list box, that product's description, units on hand, and price are displayed in the TextBox controls.



The screenshot shows a Windows application window titled "Product Lookup". Inside the window, there is a label "Select a Product Number" above a list box. The list box contains the following product numbers: 10-01, 10-02, 10-03, 10-04, 10-05, 20-01, 20-02, and 20-03. The item "10-01" is selected and highlighted in blue. To the right of the list box, there are three text boxes. The first is labeled "Description:" and contains the text "Oxford Cloth Shirt". The second is labeled "Units On Hand:" and contains the number "100". The third is labeled "Price:" and contains the number "39.9500".

Product Number	Description	Units On Hand	Price
10-01	Oxford Cloth Shirt	100	39.9500
10-02			
10-03			
10-04			
10-05			
20-01			
20-02			
20-03			

Product Lookup

Select a Product Number

10-01	
10-02	
10-03	
10-04	
10-05	
20-01	
20-02	
20-03	

Description: Canvas Shirt

Units On Hand: 200

Price: 32.9500