

## Final Database VB.net Project (20 Points)

We are using a SQL Server Database to Complete this Exercise

Part 1: Attach to the Database. The following items describe how to do this from K-State's CBA network.

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 (SqlClient) Change...

Server name:  
enterprise.cba.ksu.edu Refresh

Log on to the server

☐ Use Windows Authentication

☒ Use SQL Server Authentication

User name: Group10

Password: ..... ☒ Save my password

Connect to a database

☒ Select or enter a database name:  
GROUP10

☐ Attach a database file:  
Browse...

Logical name:

Advanced...

Test Connection OK Cancel

Server Name:

Enterprise.cba.ksu.edu

User Name: Group10

Password: Grp10313s

Data Source Configuration Wizard

Choose Your Data Connection

Which data connection should your application use to connect to the database?  
enterprise.GROUP10.dbo 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.

Connection string that you will save in the application (expand to see details)

Data Source=enterprise.cba.ksu.edu;Initial Catalog=GROUP10;Persist Security Info=True;User ID=Group10;Password=Grp10313s

< Previous Next > Finish Cancel

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:

GROUP10ConnectionString

< Previous Next > Finish Cancel

Data Source Configuration Wizard

### Choose Your Database Objects

Which database objects do you want in your dataset?

- ☒ Tables
  - ☒ CUSTOMER
  - ☒ ORDER\_LINE
  - ☒ ORDERS
  - ☒ PART
  - ☒ REP
- ☐ Views
- ☐ Stored Procedures
- ☐ Functions

DataSet name:

GROUP10DataSet

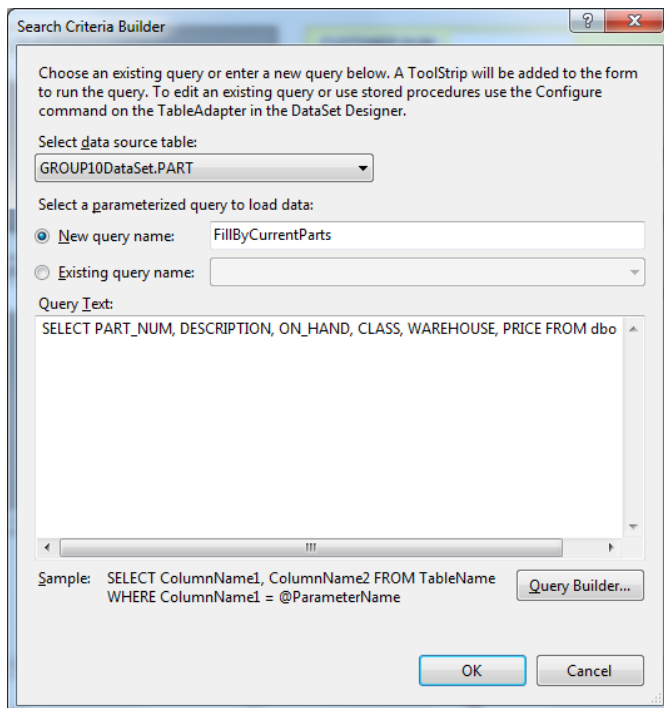
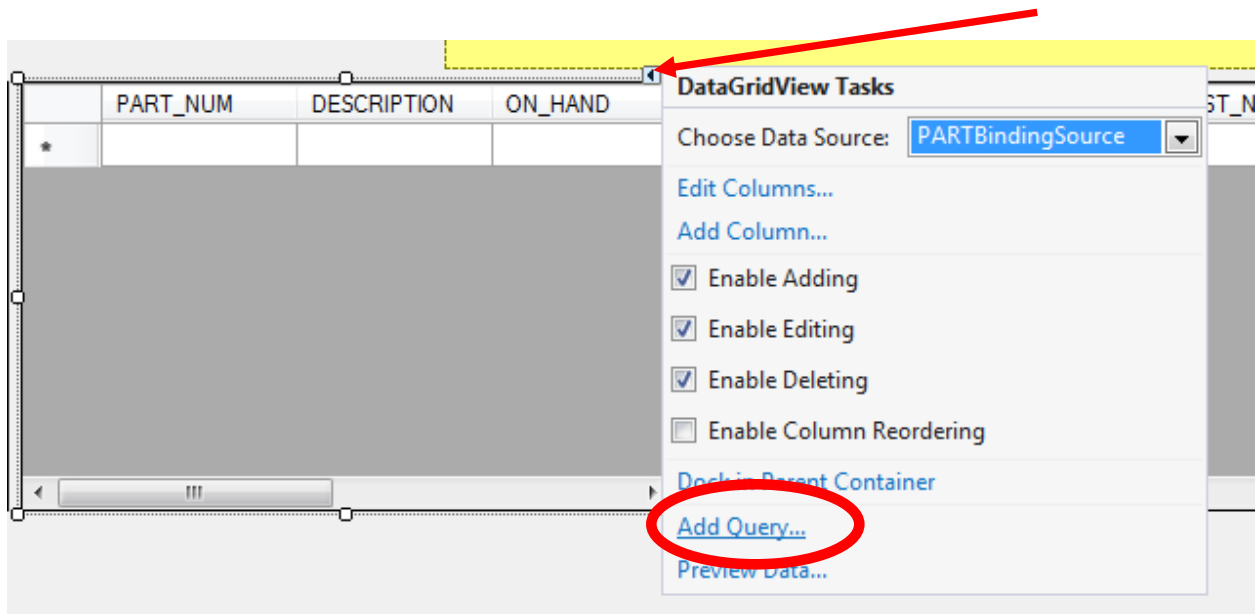
< Previous Next > Finish Cancel

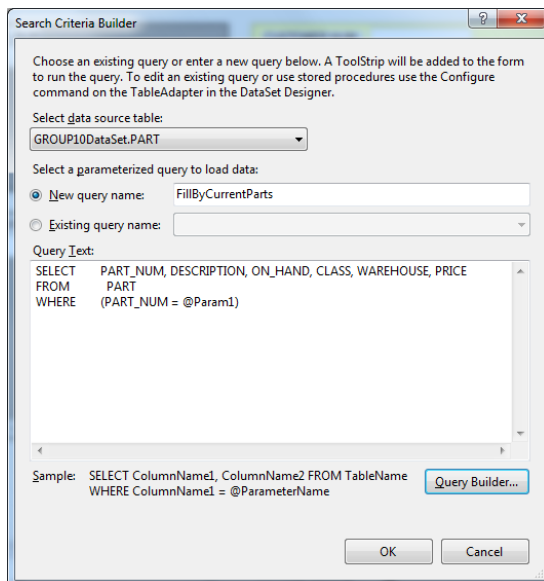
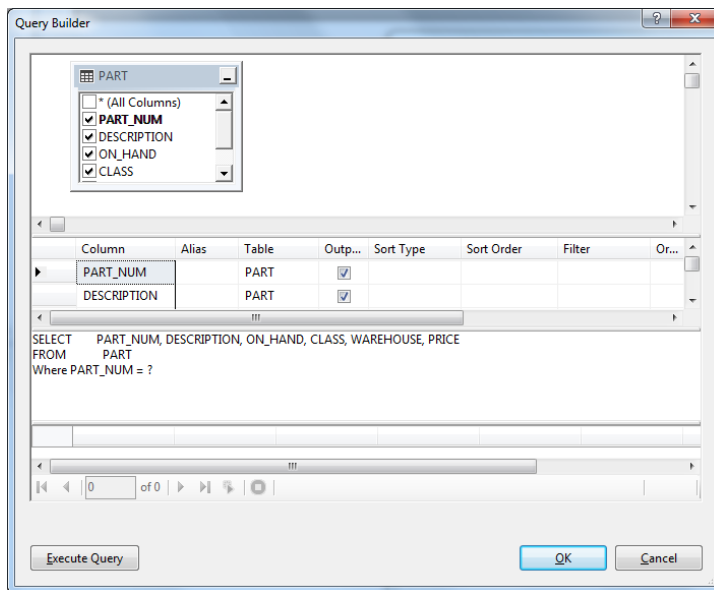
Tasks:

- 1) Create a Form that Displays All the Tables from the Database in DataGridViews (You will have DataGridViews for Customer, Order\_Line, Orders, Part, and Rep Tables).
- 2) Create a Query on the Orders Table Data Grid View that displays the currently selected customer's orders to be displayed in the Order's DataGridView. Attach it to a button called 'Display Current Customer's Orders'. This query is a parameter query. I will provide a hint below.
- 3) Create a Query on the Order\_Line Table that displays the currently selected order's detail lines to be displayed in the Order\_Line's DataGridView. Attach it to a button called 'Display Current Order Line Details'. This query is a parameter query.
- 4) Create a Query on the Parts Table that displays the currently selected Order\_Line's Part Number to be displayed in Detail in the Parts Table DataGridView. Attach it to a Button called 'Display Current Part Details'. This query is a parameter query.
- 5) Add a button that display the current Customer's Rep Name in a Text Box. This query is a parameter query and will need to refer back to the Customer Table's Data Set.
- 6) Add a button that resets all the Datagridviews. This button can be developed from the code that was inserted into your Form Load Event when you added the DataGridViews.
- 7) Add Code to your navigation buttons to make the customer data automatically update as you scroll. Your indexes will need to consider the current row + or – 1 depending on whether you are going forward or backward.

Hint For Creating Queries for this Project: Here is an example of the query for Part #4. All the queries you create will be similar but will use different DataGridViews.

A) Click on DataGridView and select the 'Add Query' option from the tiny arrow's menu.





Now go into your Button Event Code and add your created method:

```
Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
    Me.PARTTableAdapter.FillByCurrentParts(Me.GROUP10DataSet.PART,
    ORDER_LINEDataGridView.Item(0, ORDER_LINEDataGridView.CurrentRow.Index).Value)

End Sub
```

What does this stuff mean?

This is your Created Parameter  
Method that Fills the DataGridView

`Me.PARTTableAdapter.FillByCurrentParts`

`(Me.GROUP10DataSet.PART,`

`ORDER_LINEDataGridView.Item(0, ORDER_LINEDataGridView.CurrentRow.Index).Value)`

This is where the Data comes from  
(e.g. Part Table)

This is your Parameter. It is the value  
found in the OrderLine Grid View in  
the first column and the currently  
selected row. So, it is getting the Part  
Number You wish to Display.

The screenshot shows a 'Master Detail Form' application window. The main table lists customers with columns: CUSTOMER\_NUM, CUSTOMER\_NAME, STREET, CITY, STATE, ZIP, BALANCE, CREDIT\_LIMIT, and REP\_NUM. Customer 148 is selected. Below this, a detail view for customer 148 shows a table with columns: ORDER\_NUM, ORDER\_DATE, and CUSTOMER\_NUM. The first row shows order 21608 dated 10/20/2010. To the right of the detail table is a form with fields for CUSTOMER\_NUM (148), CUSTOMER NAME (Al's Appliance and Sport), and buttons for 'Show Selected Rep', 'Show Current Customer Orders', 'Display Current Order Line', 'Reset', and 'Show Selected Parts'. At the bottom, there are three small tables: the first shows ORDER\_NUM, PART\_NUM, and NUM\_ORDERS; the second shows PART\_NUM, DESCRIPTION, and ON\_HAND; the third shows REP\_NUM, LAST\_NAME, and FIRST\_NAME. The first table shows order 21608 with part AT94 and quantity 11. The second table shows part AT94 as 'Iron' with 50 on hand. The third table shows rep 20 as 'Kaiser' and 'Valerie'.

CUSTOMER_NUM	CUSTOMER_NAME	STREET	CITY	STATE	ZIP	BALANCE	CREDIT_LIMIT	REP_NUM
148	Al's Appliance an...	2837 Greenway	Fillmore	FL	33336	6550.00	7500.00	20
282	Brookings Direct ...	3827 Devon	Grove	FL	33321	431.50	10000.00	35
356	Ferguson's ...	382 Wildwood	Northfield	FL	33146	5785.00	7500.00	65
408	The Everything S...	1828 Raven	Crystal	FL	33503	5285.25	5000.00	35
462	Bargains Galore ...	3829 Central	Grove	FL	33321	3412.00	10000.00	65
524	Kline's ...	838 Ridgeland	Fillmore	FL	33336	12762.00	15000.00	20
608	Johnson's Depart...	372 Oxford	Sheldon	FL	33553	2106.00	10000.00	65
663	RogerMcHaney ...	101 Calvin	Manhattan	KS	66502	75.00	500.00	20
687	Lee's Sport and ...	282 Evergreen	Altonville	FL	32543	2851.00	5000.00	35

ORDER_NUM	ORDER_DATE	CUSTOMER_NUM
21608	10/20/2010	148
21619	10/23/2010	148

CUSTOMER NUM: 148 Rep Valerie Kaiser  
CUSTOMER NAME: Al's Appliance and Sport Show Selected Rep  
Show Current Customer Orders Display Current Order Line  
Reset Show Selected Parts

ORDER_NUM	PART_NUM	NUM_ORDERS
21608	AT94	11

PART_NUM	DESCRIPTION	ON_HAND
AT94	Iron	50

REP_NUM	LAST_NAME	FIRST_NAME
20	Kaiser	Valerie

**Demo for Professor when Complete. No Online Submissions for this Assignment.**