PROG1210 Rapid Application Development

Vanscoy Assignment 4

[50 Marks]

Objectives:

- Create, declare, and program a dataset to support a database application
- Create an ASP.NET web application with components for maintaining records
- Test library for correctness

Preamble:

This assignment will help you understand how to use Datasets in the Emma Team Project by having you develop a solution for the following specific use case.

Use Case:

The user selects a **Sales Employee**. Below a list of existing **Orders** related to the Employee display in a list. Each row in the list contains the customer name, phone number, order date and paid:

Select Employee:

| Wendy Tutti | ∨ | | | Sales | |

	#	Name	Phone	Order	Date	Paid
Select	1	Bob Underhill	9058889632	1	Wednesday, April 25, 2018	☑
Select	5	Oliver Danski	999999999	2	Sunday, April 28, 2019	☑

The user can select one of the employee orders from the list to obtain a detail view. In this detail view the full customer record is displayed and the user is able to update the customer and save any changes to the database. The user can select the order to see the details and to update the order Paid and Payment fields.

In the following example Bob Underhill's order is selected.

Detail View:

Bob Underhill

First:	Bob
Last:	Underhill
Phone:	9058889632
Address:	1234 Clare St
City:	Welland
Postal	E3E4R5
Email:	b.underhill@gmail.com

Edit

	ID	Order	Date	Paid	Payment	C	E
Edit Select	1	1	Wednesday, April 25, 2018	☑	Mastercard ⌄	1	5

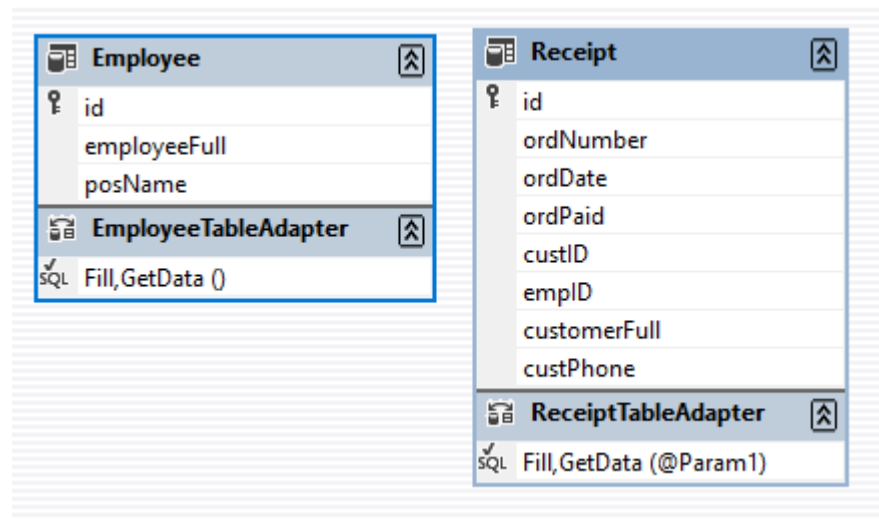| Product	Qty	Price	Total
Air filter	1	15.99	15.99
Key	1	15.99	15.99

Order Total is $31.98

Instructions:

Create an ASP Web Application for this specific use case from the Emma Case Study using a Dataset to manage the data access. You can load data into the Dataset or bind components to adapters or use both techniques. There are different approaches using Datasets to solve this use case. The choice is up to you as long as you use a Dataset in your solution.

The design of the web form(s) for this use case is up to you. Keep in mind: design is not as important as is function. Keep it neat and formatted. Use the figures above as a guide.
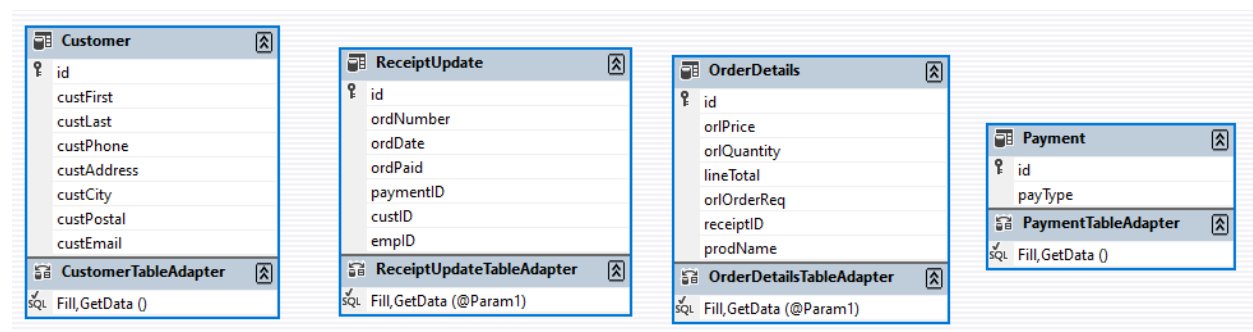
The detail view could be a separate form. The records could be displayed in Form Views or Grid Views or in Textboxes and other components. Consider how you plan to update the records. Are you going to bind the record or are you copying it from memory onto components? Design the view and determine the events you need with the back end Dataset in mind.

Examine the **EMMA Database** provided (not your version from PROG1180) and use this version to complete this assignment. The following figures show the tables required in the Dataset for the above example.

There are two adapters for the selecting the Employee Orders:

The Detail view require the adapters to enable CRUD on the Customer and Receipt tables. The total order amount is calculated from Order Details and Payment is used as a Lookup for updating the receipt:

Note the joins between tables by examining the fields included in the tables.
Due Date: Posted in Blackboard
Hand-in: Compress and submit the Library solution and Web solution thru Blackboard.

Marking Scheme:

Dataset	15
Employee Order View	10
Customer Order View	15
CRUD Update Operations	10
Total	50