C# WPF Pink Report Application

Private Helpers: (Seen in BISEC WPF Project)

* Internal void methods – called from public ICommand methods
* Same thing as private methods?

**Actions Needed**:

* Develop Select Statement that pulls the appropriate columns from their corresponding tables using joins (Access contains a feature to develop joins for you?)
* Query the DB using this Select Statement and filter it based on the default or user-selected date
* Where DateOut > StartDate And DateOut < EndDate
* Query the DB & filter depending on which Show Option is selected
* Remember the edge case of when the user doesn’t select a show option
* **UPDATING**:
* Verify user code in order to mark a Job(unique by Job#) as received – which update the ‘Pinks Received’ list by adding the chosen record
* One updated – the record is removed from ‘Pinks Not Received’ list and moved to the ‘Pinks Received’ list
* This is done via an update query that changes the PINK attribute of that record from false to TRUE
* Once the Pink Report and Equipment DB are updated – the ‘Pinks Received’ list is shown

Queries Needed:

* Select all equipment that was picked up or sent out

(Any equipment that left our building)

* Select the equipment based off the Date

(Based off the date range selected on Page1; ex – May 5 through May 8)

* **FOUND SOLUTION**: MS Access formats dates like ‘# mm/dd/yyy/ #’

command.CommandText = (“Select \* From [Equipment] Where DateOut >=# ” + StartDate.Text + “# ” + “And DateOut <=# ” + EndDate.Text + “#”);

* This successfully loads the records into the DataGrid
* 🡪 BETWEEN not working w/ MS Access DB ?
* How to load access database records to WPF page
* Need connection string
* how to load records from several tables into WFP view (Joins)

Had to add references/assemblies:

* using System.Data.OleDb;
* using System.Configuration; 🡪 and also added the reference
* using System.Data;

General/Default Case Commands:

* Default Case: (upon startup) **NO NEED to for when the user does not select a date range??**
* Sorts by the current day 🡪
* StartDate.Text = InitStartDate;
* EndDate.Text = InitEndDate;
* Would a refresh feature make a difference? Don’t think so

- unless the refresh wouldn’t reload the page & grid

* General Case: (when user selects a date range)
* Sorts by the StartDate & EndDate selected by the user
* Where DateOut >=# ” + StartDate.Text + “# ” + “And DateOut <=# ” + EndDate.Text + “#”);

**Pink Report Application Walkthrough**:

* Upon loading the application, the Main Window is loaded
* From here click ‘Returned to Customers’ –
* This loads Page 1 and its grid view displays the results of Default Case Command
* User can select a date range 🡪 displays the results of the General Case Command
* One of the three Show Options can be selected:
* All 🡪 displays results of General Case Command
* Pinks Received 🡪 displays results of when PINK = true
* Pinks Not Received 🡪 displays results of when PINK = false

**Random**:

**OleDbConnection** connection = new **OleDbConnection**();

**OleDbCommand** command = new **OleDbCommand**(CommandText, Connection);

* command.CommandText = “…”;
* command.Connection = connection;

**How to create a Data Set / Data Source 🡪 only for WinForms projects???**: (I didn’t need them in WPF)

* **Datasource** is a name given to the connection set up to a database from a server. The name is commonly used when creating a query to the database. The **data source** name (DSN) need not be the same as the filename for the database. For example, a database file named friends.mdb could be set up with a DSN of school.
* **DataSet** represents a complete set of data including the tables that contain, order, and constrain the data, as well as the relationships between the tables. ... Build and fill each DataTable in a **DataSet** with data from a data source using a DataAdapter. The **DataSet** object offers a disconnected data source architecture.
* C# **ADO.NET** **DataAdapter**. DataAdapter is a part of the **ADO.NET Data Provider**. DataAdapter provides the communication between the Dataset and the Datasource. We can use the DataAdapter in combination with the DataSet Object.

**What does ?? mean**:

* Provides a convenient way that I can map the null value of a nullable variable onto a specific value

**Int actualAge = customerAge ?? – 1;**

* It saves us from having to write code that tests for a null and sets a value appropriately. The above statement sets the value of actualAge to the value in customerAge unless the value in customerAge is null, in which case it sets it to -1
* If (customerAge == null)

actualAge = -1;

else

actualAge = customerAge

* In other words, ?? – is a short form of the above test.