~~Economic Development Conference~~

Shelly Cashman Access 2019 | Modules 8-10: SAM Capstone Project 1a



~~Macros, Navigation Forms, Database Administration, Using SQL~~

# ~~GETTING STARTED~~

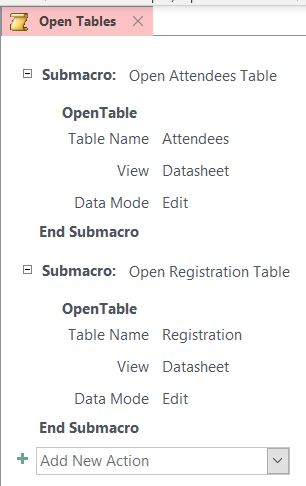
* ~~Open the file~~ **~~SC\_AC19\_CS8-10a\_~~*~~FirstLastName~~*~~\_1.accdb~~**~~, available for download from the SAM website.~~
* ~~Save the file as~~ **~~SC\_AC19\_CS8-10a\_~~*~~FirstLastName~~*~~\_2.accdb~~** ~~by changing the “1” to a “2”.~~

~~If you do not see the .accdb file extension in the Save As dialog box, do not type it. The program will add the file extension for you automatically.~~

* ~~Open the~~ **~~\_GradingInfoTable~~** ~~table and ensure that your first and last name is displayed as the first record in the table. If the table does not contain your name, delete the file and download a new copy from the SAM website.~~
* ~~PROJECT STEPS~~

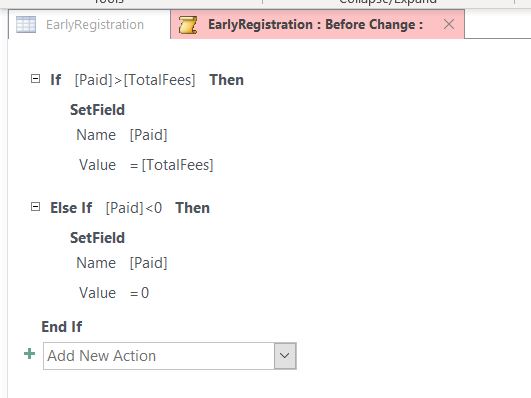
1. ~~The Economic Development Professional Organization hosts an annual conference for its members, college students, and other interested persons to share new ideas, discuss problems, and brainstorm solutions. You are a conference coordinator responsible for tracking registrations and for recording income based on advertisers, exhibitors, and sponsors.   
     
   Open the~~ *~~Preview Advertisers Contact Report~~* ~~macro in Design View. Change the View argument to~~ **~~Print Preview~~**~~. Save the change to the macro, and then close the~~ *~~Preview Advertisers Contact Report~~* ~~macro.~~
2. ~~Create a new macro with two submacros by following the directions below:~~
   1. ~~When the Macro design window opens, display the Action Catalog.~~
   2. ~~Add the first submacro to the macro, using~~ **~~Open Attendees Table~~** ~~as the name for the submacro.~~
   3. ~~In the first submacro, use the OpenTable action to open the~~ *~~Attendees~~* ~~table in Datasheet View and in Edit data mode.~~
   4. ~~Add a second submacro to the macro, using~~ **~~Open Registration Table~~** ~~as the name for the macro.~~
   5. ~~In the second submacro, use the OpenTable action to open the~~ *~~Registration~~* ~~table in Datasheet View and in Edit data mode.~~
   6. ~~Save the macro using~~ **~~Open Tables~~** ~~as the macro name.  
        
      Confirm that your macro matches Figure 1, and then close the macro.~~

* ~~Figure 1: Open Tables Macro~~

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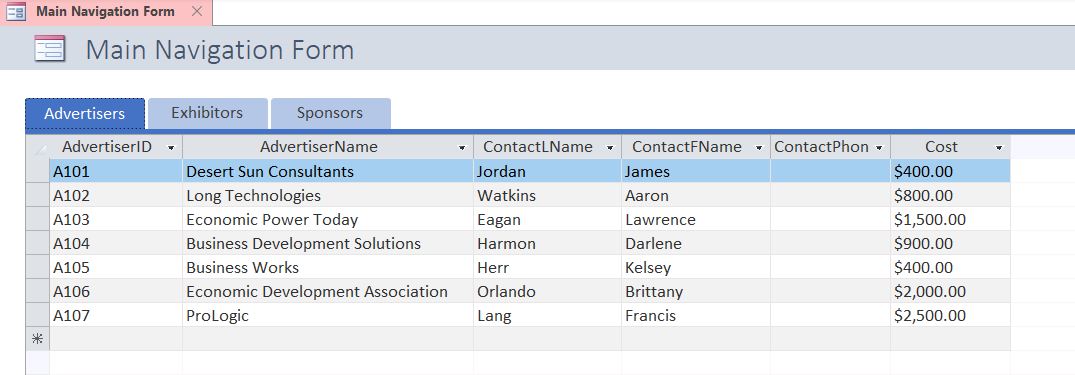
1. ~~Open the~~ *~~EarlyRegistration~~* ~~table in Datasheet View and create a data macro for the table as follows:~~
   1. ~~Click the~~ **~~Before Change~~** ~~button on the Table tools tab.  
      When the Macro window opens, enter the data macro shown below:   
        
      If [Paid]>[TotalFees] Then       
      SetField       
      Name [Paid]        
      Value = [TotalFees]   
      Else If [Paid]<0 Then       
      SetField       
      Name [Paid]        
      Value = 0   
      End If~~
   2. ~~Confirm that the macro matches Figure 2. Save and close the macro, then save and close the~~ *~~EarlyRegistration~~* ~~table.~~

* ~~Figure 2: Data Macro for Before Change Event~~

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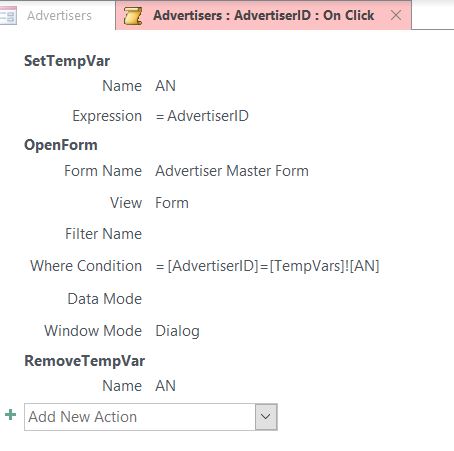
1. ~~Create a Navigation form for the database with the following options:~~
   1. ~~Use the~~ **~~Horizontal Tabs~~** ~~layout.~~
   2. ~~Add the~~ *~~Advertisers~~*~~,~~ *~~Exhibitors~~*~~, and~~ *~~Sponsors~~* ~~Datasheet forms to the Navigation form in that order.~~
   3. ~~Change the title (in the Form Header) using~~ **~~Main Navigation Form~~** ~~as the new title.~~
   4. ~~Save the navigation form using~~ **~~Main Navigation Form~~** ~~as the form name.  
        
      Switch to Form View, and confirm that your form matches Figure 3. Save the form and close the~~ *~~Main Navigation Form~~*~~.~~

* ~~Figure 3: Main Navigation Form—Form View~~

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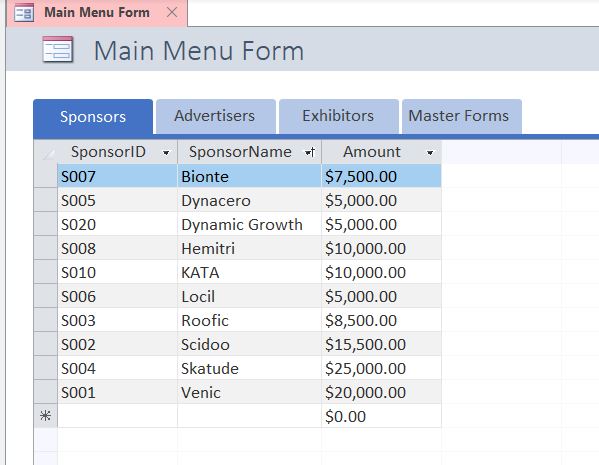
1. ~~Open the~~ *~~Advertisers~~* ~~form in Datasheet View and perform the following tasks to create a UI macro for the form:~~
   1. ~~Select the~~ *~~AdvertiserID~~* ~~column.~~
   2. ~~Click the~~ **~~Property Sheet~~** ~~button.~~
   3. ~~Click the~~ **~~Build~~** ~~button for the On Click event and select~~ **~~Macro Builder~~**~~.~~
   4. ~~Create a macro that opens the~~ *~~Advertiser Master Form~~* ~~when a user selects a value in the~~ *~~AdvertiserID~~* ~~column. The macro actions are shown below:  
        
      SetTempVar  
      Name AN  
      Expression =AdvertiserID  
      OpenForm  
      Form Name Advertiser Master Form  
      View Form  
      Filter Name  
      Where Condition =[AdvertiserID]=[TempVars]![AN]  
      Data Mode  
      Window Mode Dialog  
      Remove TempVar  
      Name AN  
        
      Confirm that the macro actions match Figure 4. Save and close the macro, then save and close the form.~~

* ~~Figure 4: UI Macro Associated with On Click Event in the Advertisers Form~~

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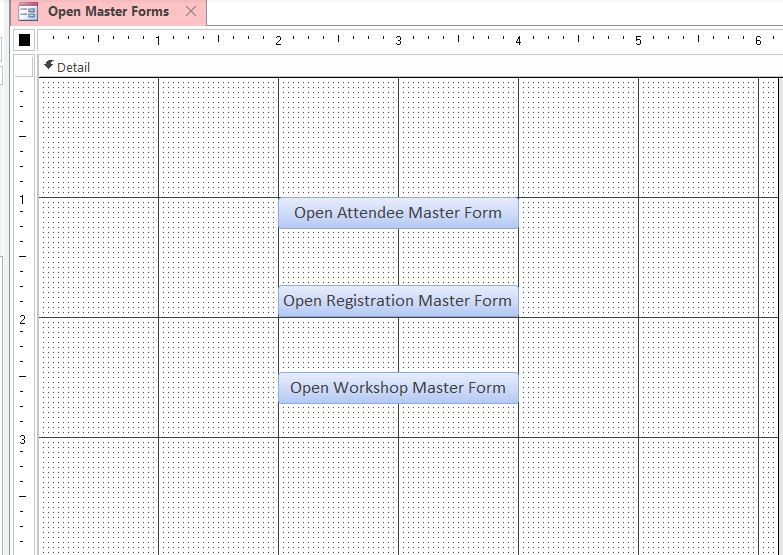
1. ~~Open the~~ *~~Main Menu Form~~* ~~in Layout View and perform the following tasks:~~
   1. ~~Add the~~ *~~Forms List~~* ~~form to the~~ *~~Main Menu Form~~* ~~as the last horizontal tab.~~
   2. ~~Rename the~~ *~~Forms List~~* ~~tab using~~ **~~Master Forms~~** ~~as the new name.~~
   3. ~~Move the~~ *~~Sponsors~~* ~~tab so that it appears first in the list.  
        
      Switch to Form View, confirm that the form matches Figure 5, then save and close the form.~~

* ~~Figure 5: Main Menu Form—Form View~~

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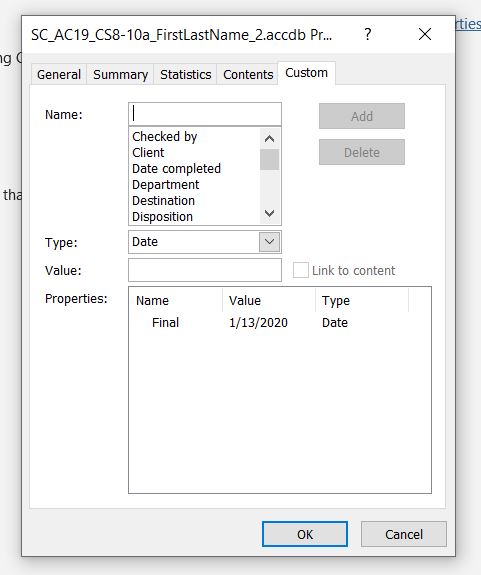
1. ~~Open the~~ *~~Open Master Forms~~* ~~form in Design View and add a command button to the form in the approximate position shown in Figure 6. The left-edge of the button is at the 2" mark on the horizontal ruler and the top-edge of the button is at the 2.5" mark on the vertical ruler. Ensure that Use Control Wizards is selected and use the following options when creating the command button using the Command Button wizard:~~
   1. ~~Select~~ **~~Miscellaneous~~** ~~as the category and~~ **~~Run Macro~~** ~~as the action.~~
   2. ~~Select~~ **~~Forms.Open Workshop Master Form~~** ~~as the macro.~~
   3. ~~Select the~~ **~~Text~~** ~~option and enter~~ **~~Open Workshop Master Form~~** ~~as the text.~~
   4. ~~Name the command button using~~ **~~Open\_Workshop\_Master\_Form~~** ~~as the name.  
        
      Save the changes to the form but do not close it.~~
2. ~~With the~~ *~~Open Master Forms~~* ~~form still open in Design View, complete the following actions:~~
   1. ~~Select the three buttons on the form and use the Size/Space menu to adjust the size~~ **~~To Widest~~**~~.~~
   2. ~~Use the Size/Space menu to adjust the spacing of the button controls to~~ **~~Equal Vertical~~**~~.~~
   3. ~~Align the buttons to the~~ **~~Left~~**~~. The left-edge of the buttons should be at the 2" mark on the horizontal ruler. The top-edge of the first button should be at the 1" mark on the vertical ruler. The right-edge of the buttons is at the 4" mark on the horizontal ruler.  
        
      Confirm that your form matches Figure 6. Save and close the~~ *~~Open Master Forms~~* ~~form.~~

* ~~Figure 6: Open Master Forms Form—Design View~~

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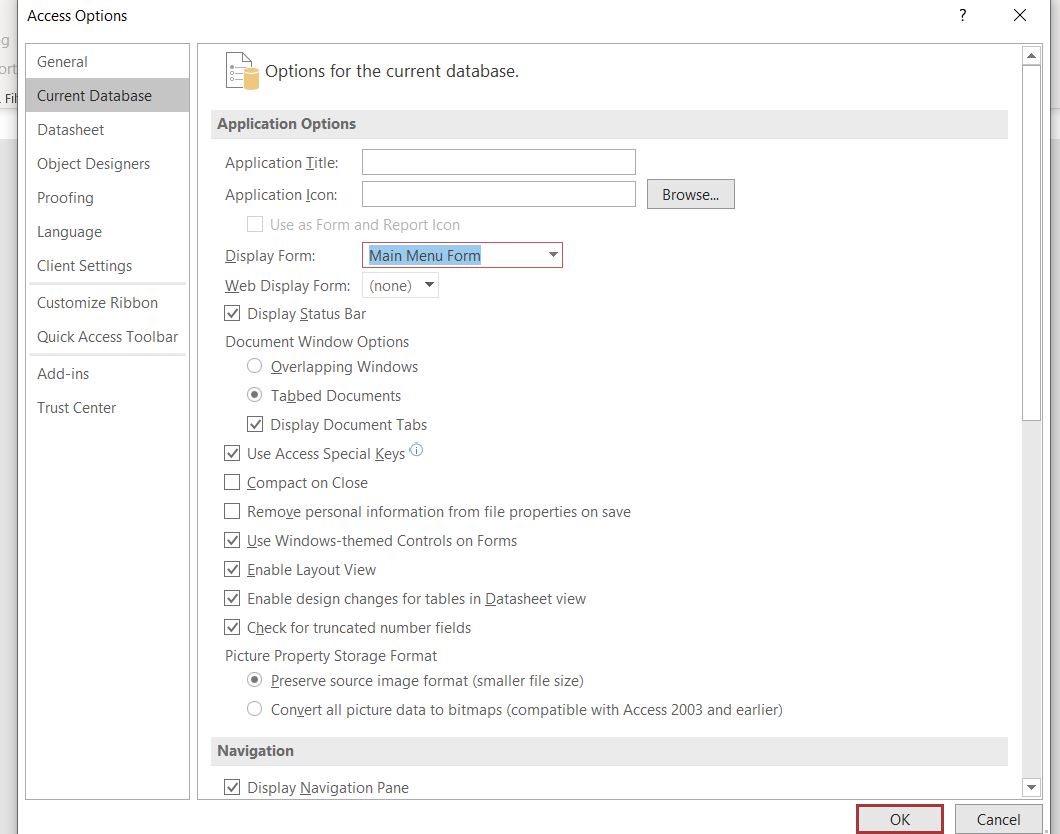
1. ~~Open the database in Backstage View, and then click the View and edit database properties link. When the Properties dialog box displays, create a custom property for the database as described below:~~
   1. ~~Create a custom property using~~ **~~Final~~** ~~as the name of the property.~~
   2. ~~Select~~ **~~Date~~** ~~as the type.~~
   3. ~~Enter~~ **~~01/13/2020~~** ~~as the value.  
        
      Confirm that your custom property matches the one shown in Figure 7. (~~*~~Hint~~*~~: Your database may contain other properties, depending on the version of Access used to open the file or the method by which the file was downloaded from SAM. Ignore these additional properties.)~~

* ~~Figure 7: Custom Properties Tab in the Properties Dialog Box~~

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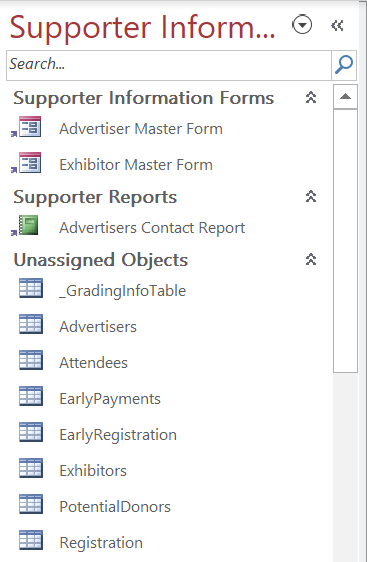
1. ~~With the database still open in Backstage View, click the~~ **~~Options~~** ~~tab. Select the~~ *~~Main Menu Form~~* ~~as the display form for the database, as shown in Figure 8. (~~*~~Hint~~*~~: The display form is sometimes referred to as the startup form.) Save the changes to the options. (~~*~~Hint~~*~~: When the Access dialog box appears and displays the message, "You must close and reopen the current database for the specified option to take effect.", click the~~ **~~OK~~** ~~button.).~~

* ~~Figure 8: Access Options Dialog Box~~

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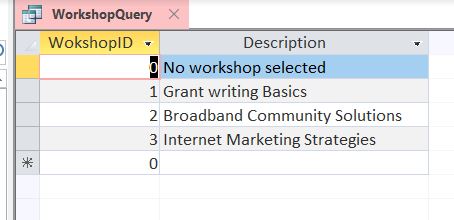
1. ~~Open the~~ *~~Attendees~~* ~~table in Design View, and then create a custom input mask for the~~ *~~AttendeeID~~* ~~field as described below:~~
   1. ~~The~~ *~~AttendeeID~~* ~~field must consist of two letters and three numbers.~~
   2. ~~All letters should display in uppercase. (~~*~~Hint~~*~~: Enter~~ **~~>LL999~~** ~~as the input mask.)~~
   3. ~~Save the changes to the table.~~
2. ~~With the~~ *~~Attendees~~* ~~table still open in Design View, create a single-field index on the~~ *~~LastName~~* ~~field. The index should allow duplicate values. Save the changes to the table design and then close the table.~~
3. ~~Open the~~ *~~Advertisers~~* ~~table in Design View and create a multiple-field index as described below:~~
   1. ~~Name the index, using~~ **~~ContactName~~** ~~as the name.~~
   2. ~~Use the~~ *~~ContactLName~~* ~~field, sorted in~~ **~~Descending~~** ~~order, as the first field in the index.~~
   3. ~~Use the~~ *~~ContactFName~~* ~~field, sorted in~~ **~~Ascending~~** ~~order, as the second field in the index.~~
   4. ~~Save the changes to the table design, and then close the table.~~
4. ~~Open the~~ *~~EarlyRegistration~~* ~~table in Design View, and then open the Property Sheet for the table and make the following updates:~~
   1. ~~Create a validation rule for the table requiring that the~~ *~~Paid~~* ~~field value is always less than or equal to the~~ *~~TotalFees~~* ~~field value. (~~*~~Hint~~*~~: Enter~~ **~~[Paid]<=[TotalFees]~~** ~~as the validation rule.)~~
   2. ~~Enter~~ **~~Paid cannot exceed TotalFees~~** ~~as the validation text.  
        
      Close the Property Sheet, save the changes to the table, then close the table. (~~*~~Hint~~*~~: Because there was a change to data integrity rules, the "existing data may not be valid" warning message will appear. Click No and continue saving the table.)~~
5. ~~Create a blank form based on the~~ **~~1 Right~~** ~~application part. (~~*~~Hint~~*~~: The blank form will appear in the Navigation Pane as a forms object named "~~**~~SingleOneColumnRightLabels~~**~~" and is saved automatically~~*~~.~~*~~)~~
6. ~~With the Navigation Pane open, switch to viewing database items by the custom category named~~ *~~Supporter Information~~* ~~in the Navigation Pane. Add the~~ *~~Advertiser Master Form~~* ~~and the~~ *~~Exhibitor Master Form~~* ~~to the~~ *~~Supporter Information Forms~~* ~~group. Confirm the~~ *~~Supporter Information Forms~~* ~~group matches Figure 9.~~
7. ~~Add a new group to the~~ *~~Supporter Information~~* ~~category as described below:~~
   1. ~~Name the new group using~~ **~~Supporter Reports~~** ~~as the name.~~
   2. ~~If necessary, move the~~ *~~Supporter Reports~~* ~~group so that it appears between the~~ *~~Supporter Information Forms~~* ~~group and the~~ *~~Unassigned Objects~~* ~~group.~~
   3. ~~In the Navigation Pane, add the~~ *~~Advertisers Contact Report~~* ~~to the~~ *~~Supporter Reports~~* ~~group in the Navigation Pane to match Figure 9.~~

* ~~Figure 9: Navigation Pane Viewed by Supporter Information Category~~

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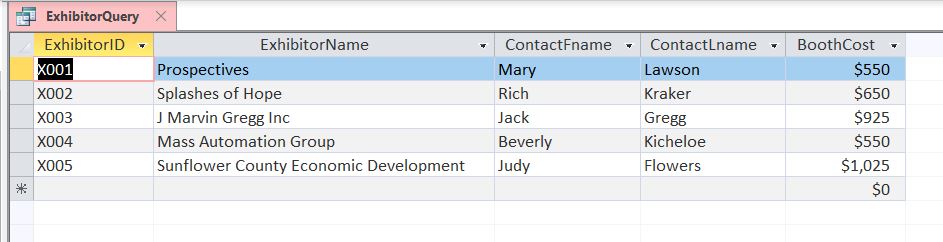
1. ~~Create a new query in SQL View based on the~~ *~~Workshops~~* ~~table:~~
   1. ~~Add all fields from the~~ *~~Workshops~~* ~~table to the new query using the asterisk (~~**~~\*~~**~~) in the Select clause.~~
   2. ~~Be sure to end the SQL command with a semicolon (~~**~~;~~**~~).~~
   3. ~~Run the query to produce the results shown in Figure 10. There should be four records in the result.~~
   4. ~~Save the query using~~ **~~WorkshopQuery~~** ~~as the name, and then close the query.~~

* ~~Figure 10: WorkshopQuery Results~~

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1. ~~Open the~~ *~~ExhibitorQuery~~* ~~in SQL View, and then add the~~ *~~ContactFname~~* ~~field to the SELECT clause (after the~~ *~~ExhibitorName~~* ~~field.) Run the query, and ensure that the results match those shown in Figure 11.  There should be five records in the result. Save and close the~~ *~~ExhibitorQuery~~*~~.~~

* ~~Figure 11: ExhibitorQuery Results~~

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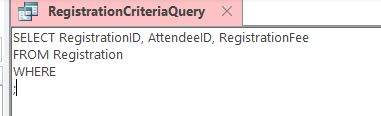
1. ~~Open the~~ *~~EarlyPaymentsQuery~~* ~~in SQL View. Add a computed field to the SELECT clause (after the~~ *~~Paid~~* ~~field) as described below:~~
   1. ~~The computed field should calculate the remaining payment for the conference by subtracting the~~ *~~Paid~~* ~~field value from the~~ *~~TotalFees~~* ~~field value. (~~*~~Hint~~*~~: Enter~~ **~~TotalFees-Paid~~** ~~as the computation.)~~
   2. ~~Use~~ **~~Remaining~~** ~~as the name (alias) for this computed field. (~~*~~Hint~~*~~: Use the~~ **~~AS~~** ~~clause.)~~
   3. ~~Run the query and ensure that the results match those shown in Figure 12. (~~*~~Hint~~*~~: your records may be in a different order.) There should be 13 records in the result. Save and close the query.~~

* ~~Figure 12: EarlyPaymentsQuery Results~~

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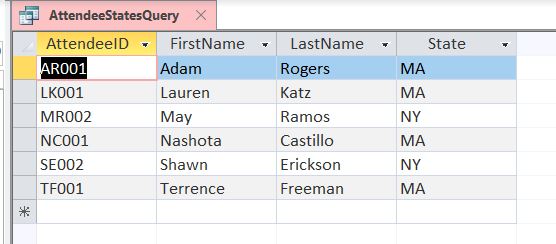
1. ~~Open the~~ *~~RegistrationCriteriaQuery~~* ~~in SQL View. Add a~~ **~~WHERE~~** ~~clause to the query as the third line in the query as shown in Figure 13 that restricts retrieval to those registrations where the~~ *~~RegistrationFee~~* ~~is less than 150. (~~*~~Hint~~*~~: Figure 13 demonstrates the proper location for the WHERE clause, but it does not show the criteria that should be included in the WHERE clause.) Run the query and check your results. There should be six records in the result. Save and close the~~ *~~RegistrationCriteriaQuery.~~*

* ~~Figure 13: RegistrationCriteriaQuery in SQL View~~

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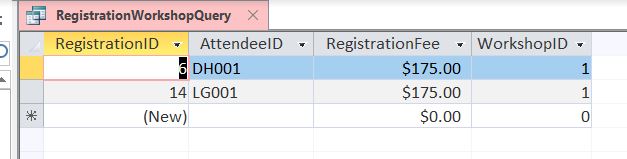
1. ~~Open the~~ *~~AttendeeStatesQuery~~* ~~in SQL View. Add an~~ **~~OR~~** ~~clause to the WHERE clause in the query so that the query retrieves only those records in which the~~ *~~State~~* ~~field is~~ **~~equal to NY or MA~~**~~. (~~*~~Hint~~*~~: Currently, the query only retrieves records where the~~ *~~State~~* ~~field is equal to NY.) Run the query, and ensure that the results match those shown in Figure 14. There should be six records in the result. Save and close the~~ *~~AttendeeStatesQuery~~*~~.~~

* ~~Figure 14: AttendeeStatesQuery Results~~

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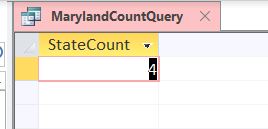
1. ~~Open the~~ *~~RegistrationWorkshopQuery~~* ~~in SQL View. Add an~~ **~~AND~~** ~~clause to the WHERE clause in the query so that the query retrieves only those records in which the~~ *~~RegistrationFee~~* ~~field is equal to~~ **~~175~~** ~~and the WorkshopID field is equal to~~ **~~1~~**~~. (~~*~~Hint~~*~~: Currently, the query only retrieves records in which the~~ *~~RegistrationFee~~* ~~field is equal to 175.) Run the query, and ensure that the results match those shown in Figure 15. There should be two records in the result. Save and close the~~ *~~RegistrationWorkshopQuery.~~*

* ~~Figure 15: RegistrationWorkshopQuery Results~~

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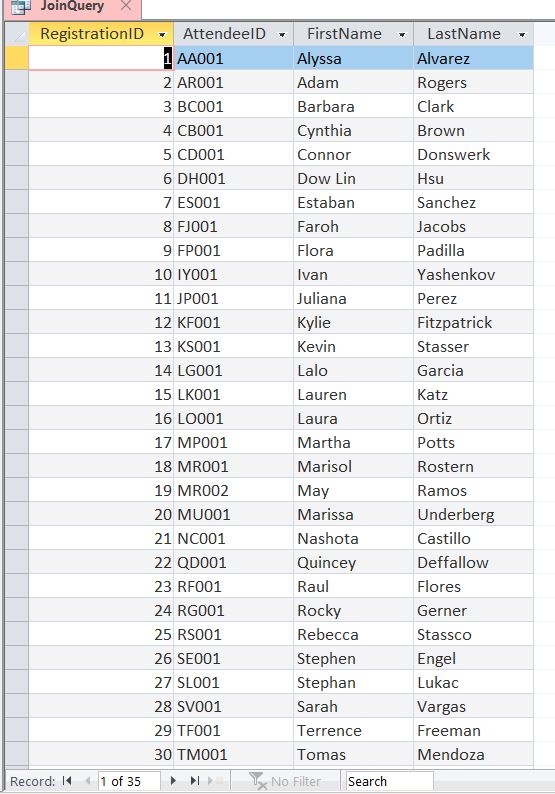
1. ~~Open the~~ *~~MarylandCountQuery~~* ~~in SQL View. Modify the SELECT clause to count the number of attendees that are located in~~ **~~MD~~**~~. (~~*~~Hint~~*~~: Change the SELECT clause to~~ **~~COUNT(AttendeeID)~~**~~.) Use the~~ **~~AS~~** ~~clause to set the alias of the function result to~~ **~~StateCount~~**~~. Run the query and ensure that the results match those shown in Figure 16. The value in the~~ *~~StateCount~~* ~~column of the result should be four. Save and close the~~ *~~MarylandCountQuery.~~*

* ~~Figure 16: MarylandCountQuery Result~~

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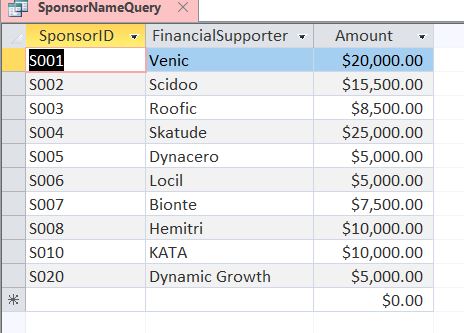
1. ~~Open the~~ *~~JoinQuery~~* ~~in SQL View. Add a~~ **~~WHERE~~** ~~clause that joins the~~ *~~Registration~~* ~~table and the~~ *~~Attendees~~* ~~table. The common field in both tables is~~ *~~AttendeeID~~*~~. You will need to qualify the~~ *~~AttendeeID~~* ~~field in the WHERE clause. Run the query and ensure that the results match that shown in Figure 17. (~~*~~Hint~~*~~: All rows are not displayed in the figure. The order of the records may differ. There should be 35 records in the result.) Save and close the~~ *~~JoinQuery~~*~~.~~

* ~~Figure 17: JoinQuery Results~~

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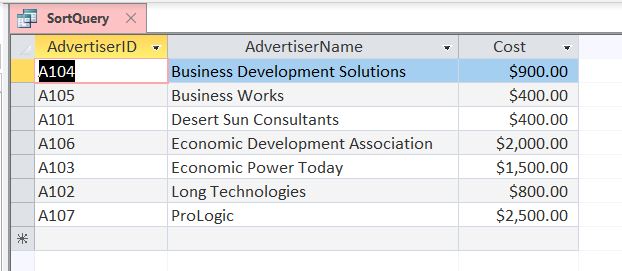
1. ~~Open the~~ *~~SponsorNameQuery~~* ~~in SQL View. Add a caption to the~~ *~~SponsorName~~* ~~field in the SELECT clause. (~~*~~Hint~~*~~: Use the AS clause.) Use~~ *~~FinancialSupporter~~* ~~as the caption for the~~ *~~SponsorName~~* ~~field. Run the query, and confirm that the second field in the query displays as~~ *~~FinancialSupporter~~*~~, as shown in Figure 18. If necessary, enlarge the size of the caption so that the entire caption is displayed. Save and close the~~ *~~SponsorNameQuery~~*~~.~~

* ~~Figure 18: SponsorNameQuery Results~~

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1. ~~Open the~~ *~~SortQuery~~* ~~in SQL View. Modify the query to sort the records in ascending order by the~~ *~~AdvertiserName~~* ~~field. (~~*~~Hint~~*~~: Use the~~ **~~ORDER BY~~** ~~clause.) Run the query and ensure that the results match those shown in Figure 19. There should be seven records in the result. The advertiser on the first record should be Business Development Solutions and the last advertiser should be ProLogic. Save and close the~~ *~~SortQuery~~*~~.~~

* ~~Figure 19: SortQuery Results~~

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1. ~~Open the~~ *~~GroupingQuery~~* ~~in SQL View. Modify the query by completing the following tasks:~~
   1. ~~Add the~~ *~~State~~* ~~field to the~~ **~~SELECT~~** ~~statement. The~~ *~~State~~* ~~field should appear before the COUNT(AttendeeID) function.~~
   2. **~~Group~~** ~~the records by the~~ *~~State~~* ~~field.~~
   3. **~~Sort~~** ~~the records in the~~ *~~State~~* ~~field in~~ **~~Ascending~~** ~~order.  
        
      Run the query, and ensure that the results match those shown in Figure 20. There should be 20 records in the result. Save and close the~~ *~~GroupingQuery~~*~~.~~

* ~~Figure 20: GroupingQuery Results~~

~~![The figure shows GroupingQuery results. The first column in the results is the State field and the second column is the TotalAttendees grouped by that state. The records are sorted in ascending order by state. CA is the state on the first record and WI is the state on the last record.
](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1hcnkgTGFzdAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzMAAJKSAAIAAAADMzMAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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