

A.I.S. Class 17: Outline

- Learning Objectives for Chapter 10
- Chapter 10 Quiz
- Chapter 10 Highlights
- Group Projects
- Group Work for Chapter 10
- College Computing

Learning Objectives for Chapter 10

- In Chapter 10 students will learn:
 - ★ What events are and how they propagate throughout your application
 - ★ How actions are recognized and triggered by events
 - ★ How to write a macro and attach it to a command button that activates the macro

Learning Objectives for Chapter 10

- In Chapter 10 students will learn:
 - ★ How to write Visual Basic for Applications (VBA) code and attach the code to event procedures
 - ★ How to create form navigation buttons
 - ★ How to incorporate small code segments that reside behind a form and that provide data validity, range, and reasonableness checks on form fields

Chapter 10 Quiz

?

Implementing the Design

- 1 Create the Access tables required by the design
- 2 Designate the primary keys
- 3 Establish relationships between tables
- 4 Create forms to maintain the tables for each resource and agent
- 5 Create (multi-table) forms for event recording processes
- 6 Create queries to generate desired information
- 7 Develop report formats for the desired reports
- 8 *Build a custom menu system*

Implementing the Design

- *Most importantly, in this chapter you will learn how to implement various forms of input and processing controls within your database applications*

Chapter 10 Highlights

- Automating database applications with Code
 - ★ **Macros**
 - ★ **VBA**
- States, events, and event properties
- Creating a Command Button
- Creating a Macro and attaching it to a Command Button
- Creating other form navigation buttons with VBA
- Printing a Macro, Macro Group, or VBA code

Chapter 10 Highlights

- ACCESS events
- Improving navigation buttons
- Buttons for file maintenance
 - ★ Save Record
 - ★ New Record
 - ★ Delete Record
 - ★ Cancel Changes
- Modifying VBA Code

Chapter 10 Highlights

- Validating user input
- Enforcing business rules
- Using a switchboard form
- Adding buttons and labels to switchboard forms
- Modifying a form's properties
- Making a switchboard form open automatically

Chapter 10 Highlights

■ DLOOKUP (p. 490)

- ★ DLookup (expression, domain, criteria)
- ★ DLookup (attribute, table, row)
- ★ DLookup (“[OnHand]”, “[tblInventory]”, “[ItemID]=12345”)
- ★ DLookup (“[OnHand]”, “[tblInventory]”, “[ItemID]=Forms![frmOrder]![fsubOrder].Form! [ItemID]”)
- ★ [Quantity] >DLookup (“[OnHand]”, “[tblInventory]”, “[ItemID]=Forms![frmOrder]![fsubOrder].Form! [ItemID]”)

■ IsNull (p. 471)

Implementation Naming Conventions

- We now add to our Camel Code naming convention, consistent with the Perry & Schneider text:
 - ★ *tbl* as a preface for table names
 - ★ *qry* as a preface for query names
 - ★ *frm* as a preface for form names
 - ◆ *fsub* as a preface for sub-form names
 - ★ *rpt* as a preface for report names
 - ★ *cmd* as a preface for macro names
 - ★ *mnu* as a preface for menu names
- Thus we will have *tblSalesOrder*, etc.

Group Projects

- Use Switchboard forms to implement an easy-to-use Menu system

Group Projects

- Top Level – buttons for:
 - ★ Purchases (or Materials Acquisition)
 - ★ Fixed Assets
 - ★ Services
 - ★ Conversion (or Production)
 - ★ Sales (or Revenue)
 - ★ Payroll
 - ★ Finance
 - ★ Cash Transfers
 - ★ Exit

Group Projects

- Sales – buttons for
 - ★ Enter sales transactions
 - ★ Maintain sales tables
 - ★ Generate sales reports
 - ★ Return to previous Menu

Group Projects

- Enter transaction – buttons e.g.:
 - ★ Record sales inquiries
 - ★ Record quotations
 - ★ Record sales orders
 - ★ Record shipments/deliveries
 - ★ Record cash receipts
 - or whatever your events are*
 - ★ Return to previous Menu

Group Projects

- Maintain tables – buttons e.g.:
 - ★ Maintain finished goods inventory
 - ★ Maintain cash accounts
 - ★ Maintain customers
 - ★ Maintain staff
 - ★ Maintain partners
 - ★ Maintain shippers
 - or whatever your resources and agents are*
 - ★ Return to previous Menu

Group Projects

■ Generate reports

- ★ Print sales inquiries
- ★ Print quotations
- ★ Print sales orders
- ★ Print pro-forma invoices / remittance advices
- ★ Print shipping notices / bills of lading
- ★ Print sales invoices
- ★ Print cash receipts
- ★ Print accounts receivable
- ★ Print unfulfilled orders
- ★ Print sales analyses

or whatever reports your system needs – you may have to split onto several pages if you have many reports – e.g, current, period end

- ★ Return to previous Menu

Group Work for Chapter 10

- Problems 1, 2

College Computing

- Stage 1 and 2 resubmissions are graded
- Stage 3 is graded – but needs further work
- Stage 4 is the immediate priority
 - ★ Questions?

Finally . . .

- Classes will meet in Beck 213 on Monday November 7