### NORWICH Forms & Reports

### **IS240 – DBMS**

Part 2 of 2

Lecture #10 - 2010-03-29

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#### **Report Design**

- Report usage/user needs.
- Report layout choices. □ Tabular
- Columns/Subgroups □ Charts/graphs
- > Paper sizes.

1

3

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- Printer constraints.
- > How often is it generated?
- Events that trigger
- report?
- How large is the report? > Number of copies?
- > Colors?
- Distribution list Unique numbering Concealed/nonprinted data Secured printers □ Transmission limits □ Print queue controls > Output concerns □ Typefaces ✓ Readability √ Size
  - ✓ User disabilities

### **Report Types: Tabular**

Customer

Phone	FirstName	LastName	Address	ZipCode
	Walkin	Walkin		
(808) 801-9830	Brent	Cummings	9197 Hatchet Dri	96815
(617)843-6488	Dwight	Logan	1760 Clearview	02109
(502) 007-0907	Shatika	Gilbert	4407 Green Stre	40342
(701) 384-5623	Charlotte	Anderson	4333 Highland C	58102
(606)740-3304	Searoba	Hopkins	3183 Highland C	40330
(408)104-9807	Anita	Robinson	8177 Horse Park	95035
(606) 688-8141	Cora	Reid	8351 Locust Str	41073
(702) 533-3419	Elwood	Henson	4042 West Ridg	89125
(302)701-7398	Kaye	Maynard	5095 Sugar Gro	19901
	Phone           (808) 801-9830           (617) 843-6488           (502) 007-0907           (701) 384-5623           (606) 740-3304           (408) 104-9807           (606) 688-8141           (702) 533-3419           (302) 701-7398	Phone         FirstName           Walkin         Walkin           (808) 801-9830         Brent           (617) 843-6488         Dwight           (502) 007-0907         Shatika           (701) 384-5623         Charlotte           (606) 740-3304         Searoba           (408) 104-9807         Anita           (606) 688-8141         Cora           (702) 533-3419         Elwood           (302) 701-7398         Kaye	Phone         FirstName         LastName           Walkin         Walkin           (808) 801-9830         Brent         Cummings           (617) 843-6488         Dwight         Logan           (502) 007-0907         Shatika         Gilbert           (701) 384-5623         Charldte         Anderson           (606) 740-3304         Searoba         Hopkins           (408) 104-9807         Anita         Rebinson           (605) 688-8141         Cora         Reid           (702) 533-3419         Elwood         Henson           (302) 701-7398         Kaye         Maynard	Phone         FirstName         LastName         Address           Walkin         Walkin         Walkin         (008) 801-9830         Brent         Cummings         9197 Hatchet Dri           (607) 843-6488         Dwight         Logan         1760 Clearview           (502) 007-0907         Shatika         Gilbert         4407 Green Stre           (701) 384-5623         Charlotte         Anderson         4333 Highland C           (606) 740-3304         Searoba         Hopkins         3183 Highland C           (408) 104-9807         Anita         Robinson         8177 Horse Park           (606) 688-8141         Cora         Reid         8351 Locust Str           (702) 533-3419         Elwood         Henson         4042 West Ridg           (302) 701-7398         Kaye         Maynard         5095 Sugar Gro

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# NORWICH

- > Security controls

  - □ OCR needs

NORWICH

### **Topics**

- Report Design □Terminology □Types □Lavout □Computations □Wizard
- > Applications Design □Organization □Structure □Custom Menus □Help

In the words of the Hitchhiker's Guide to the Galaxy, DON'T PANIC. Although there are 51 slides, many of them are simply illustrations.

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### Terminology

- > Page Layout
  - Landscape v. portrait
  - □ Margins
- □ Gutter (binding space)
- > Typefaces
  - □ Serif (Times New Roman)
  - □ Sans-serif (Arial)
  - 🗆 Ornamental
- Grixed width
- Font size
  - □ common: 10 12 point
  - □ 72 points approx. 1 inch
  - □ pica (1/6 inch) (12 points)

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### **Report Types: Labels**



NORWICH

Facing pages (portrait)

autter

margins'

Landscape

Alignment marks for

color separations.

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16	
5401	
rive	
Middlebury, VT 05753 Clifton, NJ 07015	

6



Report Types       Event         > Column.       > Column with groups.         > Column with groups.         MerchandiseOrder         Onter       Order/Receive         Imployee       ShippingCost       Supplier         1       96-Mar-04       4       \$33.54       10	<ul> <li>Report Lagyout</li> <li>Report Header</li> <li>Page Header</li> <li>Group Header1</li> <li>Group Header1</li> <li>Group Header1</li> <li>Strup Header2</li> <li></li> </ul>
item     quantity     cost     description     list price     category     extended       27     8     \$24.65     Aquantum Filter & Pump     \$35.00     Fish     197.20       30     208     \$4.42     Files Coller-Dog-Medium     \$7.00     Dog     919.36       Total     1116.56	<ul> <li>Decail</li> <li>Group Footer2</li> <li>Group Footer1</li> <li>Page Footer</li> <li>Report Footer</li> <li>Report Footer</li> <li>Report Footer</li> <li>Report Footer</li> <li>Cayner C 2010 Juny Page with additions by M. E. Kuley. At rights reserved.</li> </ul>
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Report Computations	Report Graphs       NORWICH

- ♦ Same row computations.
- Report
  - $\diamond$  Group subtotals.
  - Page and report totals.
  - Mixed, e.g., commission = rate \* total
  - Scope depends on location
    - ♦Group footer: subtotal
    - ♦Page footer: page total
    - $\diamond \textbf{Report footer: report total}$

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- ♦ Detail
  - $\diamond$  Locate in detail or group footer section.
  - $\diamond$  Avoid aggregation and groups in query.
  - $\diamond$  Include column that links to detail query in report.
- $\diamond\,$  Subtotals and totals
  - $\diamond$  Typically located in report footer or header.
  - Compare group totals
  - ♦ Relies on Group By and aggregation.
  - $\diamond$  Be sure query groups match report groups.

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<section-header><section-header>         Addiana Report Title         Import Nition         Note: Import Nition         Import Nition         What title do you want for your report?         Current Distribution         Import Nition         Import Nition         Import Nition         Import Nition         Import Nition         Import Nition         Import Nition the wizard needs to create your report.         Do you want to preview the report or modify the report's design.         Import Nition       Import Nition         Import Nition       Import</section-header></section-header>	Defaut Report Factor Performed and a state of the state

	Previewing the Print Job	Application Features		
	CustomerName Wu, Jacon PoneNiambor (303) 555-089	<complex-block><ul> <li>Application organization</li> <li>Menu</li> <li>Toolbar</li> <li>Applications</li> <li>Ansactions</li> <li>Ansonoing forms</li> <li>Astonization exposits</li> <li>Distributing gorges</li> </ul></complex-block>		
_				
	Application Design	Application Importance (1)		
	<ul> <li>Customer Form</li> <li>Order Form</li> <li>Bad design:         <ul> <li>Enter data twice.</li> </ul> </li> <li>Poor design:             <ul> <li>Memorize data (ID) on one form to enter on second.</li> </ul> </li> <li>Better design:                 <ul> <li>Automatically transfer data across forms.</li> </ul> </li> </ul>	<ul> <li>&gt; User interface</li> <li>&gt; Ensure data integrity</li> <li>Make users' jobs easier.</li> <li>Tie input forms and reports.</li> <li>Automate basic tasks</li> <li>Tie to external data collection devices.</li> <li>Help system.</li> <li>&gt; Ensure data integrity</li> <li>Validate data.</li> <li>Perform computations.</li> <li>Verify totals.</li> <li>Control user access.</li> <li>Maintain related transactions.</li> <li>Backup and recovery.</li> </ul>		
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	Application Importance (2)	Application Organization (1)		
	<ul> <li>Decision Support</li> <li>Expert Systems &amp; Intelligence</li> <li>Monitoring of events.</li> <li>Logic and</li> <li>Analysis, Graphs, Reports.</li> <li>Analysis and</li> <li>Statistical optimization.</li> <li>Forecasts and simulation.</li> <li>Linking to other software.</li> </ul>	<ul> <li>&gt; Organized by user needs.</li> <li>Identify user.</li> <li>Outline tasks.</li> <li>Organize forms and reports.</li> <li>&gt; Direct users to tasks.</li> <li>&gt; Potential drawbacks</li> <li>Too many layers makes it difficult for users to find anything.</li> <li>Poor organization confuses users and requires additional support and training.</li> </ul>		
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- > Acts as a directory for the application.
- Identifies users.
- Contains startup and shutdown code.
  - □ Can preload forms in background.
    - ✓Make them invisible.
    - ✓ Speed up later usage.
  - □ Can initiate transaction and security logs.

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- □ Can establish network connections.
- Contains copyright and usage notes.

(Order, Receipt, Sale); not Item.A Customer Data □You cannot go from Order to Receipt. □You cannot go from Receipt to Sale. □You need to get customer data before recording the sale.

Merchandise

Item

Item

Get

Item

□Focus needs to be at higher level

> What is wrong?

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## DISCUSSION

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