Intermediate Developer Studio Training
• Module 1: Review
• Module 2: More on Parameters
• Module 3: More on Drill Downs
• Module 4: More on Hold Files
• Module 5: More Functions
• Module 6: Letter Generation
• Module 7: Accordian Reports
• Module 8: Advanced Graph Assistant
• Module 9: HTML Editor
• Module 10: Composer
Module 1: Review

- Know your Data
- WebFOCUS Processing
- Sorting
- WHERE & WHERE TOTAL
- Parameters
- JOINS
- Defined and Computed Fields
Module 1 Review continued

- PREFIX Operators
- Visualizing a Report
- Drill Down Report
- HOLD files and Output Types
- RANK and Table of Contents
- Functions
- SQL Wizard
EXERCISE 1.1

• WebFOCUS Jeopardy
MODULE 2
MORE on PARAMETERS

WHERE CHOCOLATE EQ
JELLYFilled OR
NUTFilled OR
FUDGEFilled OR
COCONUTFilled
Generate a Parameter Group Tool

• Not really a Where parameter but allows the end user to pick what fields will be on their report.
One Variable for each selected column

One Variable for all selected columns
Exercise 2.1
Using the Generate a Parameter Tool
FOC_NONE

• How to PROMPT for multiple parameters, but in a way that any combination can be entered, and skip over parameters.
-SET

• With -SET, you can assign a value computed in an expression.

• **Syntax:** -SET &[&]name=expression;

• where: &name Is the name of the variable.

• expression; Is a valid literal, arithmetic, or logical expression.

• Expressions can occupy several lines, so you should end the command with a semicolon (;).
Example of -SET

• -SET &LNAME = IF ‘&LAST_NAME.EVAL’ EQ ” THEN ‘FOC_NONE’ ELSE ‘&LAST_NAME.EVAL’;
-PROMPT

• The Dialogue Manager command -PROMPT solicits values before the variables to which they refer are used in the procedure. The user is prompted for a value as soon as -PROMPT is encountered.

• With -PROMPT you can specify format, text, and lists in the same way as all other variables.
Examples of -PROMPT

• -PROMPT &BANNER_ID
• -PROMPT &LAST_NAME
Exercise 2.2
Using FOC_NONE, -SET AND -PROMPT
Module 3
More Drill Downs
Drill Down Definition
- Multiple Drill Downs
- Drill Menu Items:
  - DrillDown 1

Drill Down Type:
- Execute Procedure

Procedure Name:

Target Frame:

With Parameters

Add... Edit... Delete...
<table>
<thead>
<tr>
<th>LAST NAME</th>
<th>FIRST NAME</th>
<th>MIDDLE NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atkinson</td>
<td>Jasmine</td>
<td></td>
</tr>
<tr>
<td>Atkinson</td>
<td>Blain</td>
<td>Andrew</td>
</tr>
<tr>
<td>Atkinson</td>
<td>Kevin</td>
<td>Isaac</td>
</tr>
<tr>
<td>Atkinson</td>
<td>Samuel</td>
<td>Joseph</td>
</tr>
</tbody>
</table>

- General Screen
- Review
- Education
- Conduct
- Notes
- Documents
- Residency
- Military
- Scholarships
- Test Scores
- Contact TO and FROM
Exercise 3.1
Multiple Drill Downs
Module 4
HOLD FILES
Creating and Using Hold Files

As part of the HR Datamart project, the University is required to submit data concerning race to the State each month. We are to submit one record per person in a specific format. The race fields to be populated are:

- RACE_W—White/Caucasian
- RACE_B—Black/African American
- RACE_N—Alaskan Native or American Indian
- RACE_A—Asian
- RACE_P—Native Hawaiian/Other Pacific Islander

The following are the race codes that are in Banner (GORPRAC_RACE_CDE)
Exercise 4.1
Hold Files
Module 5
More Functions

\[ f(x) \]
HDATE

- Converts a Date Time Value to just a Date Value
- Syntax:
  HDATE(value, ‘YYMD’, outfield)
Exercise 5.1
HDATE
HGETC

• HGETC syntax:
HGETC(length, outfile)

Examples:
HGETC stores the current date and time in DT2
DT2/HYYMDm=HGETC(10, ‘HYYMDm’)
COMPUTE DT2/HYYMDm =HGETC(10,DT2)
DATEDIF

• DATEDIF is a function used to find the difference between two dates.

• Syntax:
  DATEDIF(from_date, to_date, ‘Unit’,[ outfield])

Example:
DATEDIF(March31, May31, ‘M’) will yield 2.
Exercise 5.2
Using HGETC and DATEDIFF
HPART

The HPART function extracts a specified component from a date-time field and returns it in numeric format.

• Syntax:
HPART(value, ‘Component’, outfield)
Exercise 5.3
Using HPART
SUBSTRNG

• The SUBSTRNG function extracts a substring based on where it begins and its length in the parent string. SUBSTRNG can vary the position of the substring depending on the values of other fields.

• Syntax:
SUBSTRNG(inlength, parent, start, end, sublength, outfield)
POSIT

• The POSIT function finds the starting position of a substring within a larger string.

• Syntax:
  POSIT(parent, inlength, substring, sublength, outfield)
Exercise 5.4

• Using POSIT and SUBSTRNG
Module 6
Letter Generation
Dear <HOLD_L1SSEG01.Full_Name>

Our records indicate that previous notices of your outstanding balance at Appalachian State University totaling $<HOLD_L1SSEG01.Acct_Balance> have not been satisfactorily acknowledged. (Please see attached for amount detail.) Appalachian applies a one-time Late fee and monthly Interest charge on past due accounts, per State requirements.

The State policy and regulations governing uncollectible accounts dictate that I am to place your account with the North Carolina Attorney General.

In order to avoid this placement and to preserve your good credit rating, please make payment within (10) days.

To pay by check or money order, mail a check to Appalachian State University, Student Accounts, John Thomas Hall, Boone, North Carolina 28608.

If you cannot meet this payment deadline and would like to set-up an installment plan, please contact me as soon as possible.

Sincerely,
Connie McCoy
Student Accounts
828-262-8418
To pay by check or money order, mail a check to Appalachian State University, Student Accounts, John Thomas Hall, Boone, North Carolina 28608.

If you cannot meet this payment deadline and would like to set-up an installment plan, please contact me as soon as possible.

Sincerely,
Connie McVey
Student Accounts
828-262-6418
Exercise 6.1
Letter Creation
Module 7
Accordian Reports
<table>
<thead>
<tr>
<th>COLLEGE_DESC</th>
<th>CREDITS_PASSED</th>
<th>DEPARTMENT_DESC</th>
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<td>1,381,143.88</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College of Business</td>
<td>288,399.92</td>
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<td></td>
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<tr>
<td>College of Education</td>
<td>241,742.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College of Fine &amp; Applied Arts</td>
<td>405,930.41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College of Health Sciences</td>
<td>70,406.89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honors College</td>
<td>2,239.00</td>
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<td></td>
</tr>
<tr>
<td>No Coll Designated-DO NOT USE</td>
<td>45,103.10</td>
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<td>78,210.07</td>
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<th>DEPARTMENT_DESC</th>
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<th>COURSE_IDENTIFICATION</th>
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<td>4.00</td>
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</tbody>
</table>
Exercise 7.1
Accordian Report
Module 8
Advanced Graph Assistant

Cookie Dough

- Makes it to the Cookie Sheet
- Eaten
Vertical Clustered Bars: Side by side groups of bars. The standard type of two-dimensional bar chart. Any series can optionally be displayed as line or area rather than a bar.
Exercise 8.1
Using the Advanced Graph Assistant
Exercise 8.2
More Graphing
Exercise 8.3
Even More Graphing
Exercise 8.4

Another Chart
Exercise 8.5

Another Chart
Exercise 8.6

Last Chart
Module 9
HTML Editor
HTML Editor Window

To import existing HTML content, click here before beginning your work.
• Add Headings
• Add Parameters
• Add Pictures
• Add push buttons and reset buttons
• Insert existing report or graph
• Create new report or graph
Exercise 9.1

• Create an HTML page using a report we have created in class.
Exercise 9.2

• Create an HTML page using a graph we have created in class
Exercise 9.3

• Create an HTML page without using already created reports or graphs.
Document Composer Window
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page layout</td>
<td>Page layout 1</td>
</tr>
<tr>
<td>Flow margin: bottom</td>
<td>0.5</td>
</tr>
<tr>
<td>Flow margin: top</td>
<td>0.5</td>
</tr>
<tr>
<td>Page orientation</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Page layout 1</td>
</tr>
<tr>
<td>TOC description</td>
<td></td>
</tr>
<tr>
<td>TOC level</td>
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</tr>
</tbody>
</table>
EXERCISE 10.1

• Introduction to Document Composer
THE END