

Argos DataBlock Designer Training

Banner Report Specifications

Basic Exercises

General Information

Logo Location: _____

MAPS URL: _____

MAPS User Name: _____

Argos Definitions

- DataBlock
 - Gets information from your database
 - Made up of 2 components
 - Dashboard
 - User interface
 - The Report Viewer runs the dashboard to run reports, enter in their parameter selections, and view OLAP cubes and charts
 - Report Query
 - The SQL statement that creates the dataset used by reports
- Report
 - Output the information to your users
 - The design (instructions) on the output presentation
- Roles
 - DataBlock Designer: Creates DataBlocks
 - Report Writer: Designs reports
 - Report Viewer: Run reports

SQL

SELECT fields

FROM tables

WHERE some condition is met

ORDER BY fields

Notes

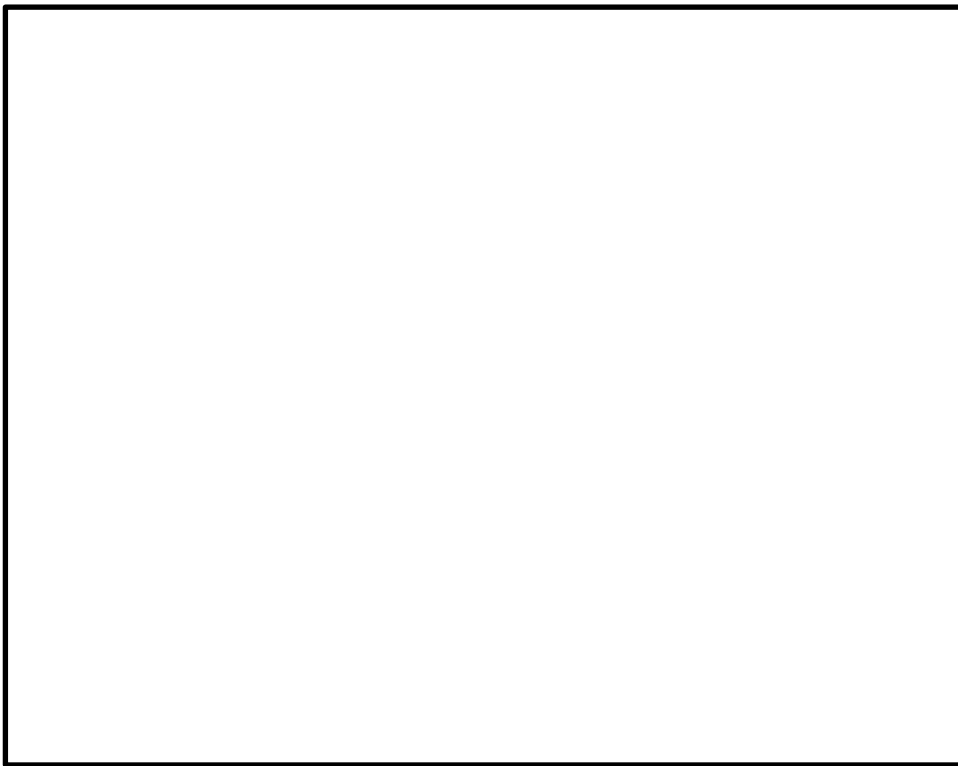
Exercise 1 - Address List for Admitted Students

Bethany works in the admissions office and needs to send letters to all the admitted students by their admit type. She wants a report with their mailing addresses.

Report Description

Return a list of addresses of admitted students to be used to create reports. The data is constrained by admit type, term and address type.

Dashboard Prototype



Notes

Form Objects

This is a **suggestion**. Name your variable anything that makes sense and follows your organization's naming convention. Just make sure you always name your variable.

Admit Type		
Control Type	List Box	
Variable Name	main_LB_Admit	
Table	STVADMT	
Select	STVADMT_CODE	as Code
	STVADMT_DESC	as Desc
Where	None	
Order By	STVADMT_DESC	Ascending

Notes

These aliases are **suggestions**. Use aliases to create easy to reference nicknames for fields.

Variable Naming Convention

Form_ControlCode_Desc

Example: Main_DD_Term

- The variable is on the Main form
- The control is a drop down, DD
- The description is Term

Control Type Codes

- Button: BT
- Chart: CT
- Checkbox: CB
- Date: DT
- Dropdown: DD
- Edit box: EB
- List box: LB
- Memo: MM
- Multi-column List box: MC
- Radio Button: RB

Address Type		
Control Type	Drop Down Box	
Variable Name	main_DD_AddrType	
Table	STVATYP	
Select	STVATYP_CODE	as Code
	STVATYP_DESC	as Desc
Where	STVATYP_CODE	<> 'XX'
Order By	STVATYP_DESC	Ascending

Variable Name

The complete name of the variable is a combination of the name of the control (the name defined in the variable name property for the control) and the name of the field. There is a "." between the control name and the field name.

Examples:

- main_LB_Admit.Code
- main_LB_Admit.Desc
- main_DD_Term.code

Keep this in mind when you name your variables. You need to be able to identify it later when you use it in your SQL.

Term		
Control Type	Drop Down Box	
Variable Name	main_DD_Term	
Table	STVTERM	
Select	STVTERM_CODE	as Code
	STVTERM_DESC	as Desc
	STVTERM_CODE '-' STVTERM_DESC	as Display
Where	STVTERM_CODE	<> '000000'
	STVTERM_START_DATE	<= sysdate + 30
Order By	STVTERM_CODE	Descending

Report Query

Tables	
SPRIDEN	SPRADDR
SARADAP	STVADMT

Joins		
Left Field	Join Type	Right Field
SARADAP.PIDM	Inner	SPRIDEN.PIDM
SARADAP_ADMT_CODE	Inner	STVADMT_CODE


Select		
Table	Field	Alias
SPRIDEN	SPRIDEN_PIDM	
	SPRIDEN_ID	IDNumber
	SPRIDEN_LAST_NAME	
SPRADDR	SPRADDR_FIRST_NAME	
	SPRADDR_ATYP_CODE	
	SPRADDR_STREET_LINE_1	
SARADAP	SPRADDR_STREET_LINE_2	
	SPRADDR_CITY	
	SPRADDR_STAT_CODE	
	SPRADDR_ZIP	
	SARADAP_TERM_CODE_ENTRY	
STVADMT	SARADAP_LEVL_CODE	
	SARADAP_STYP_CODE	
STVADMT	STVADMT_CODE	
	STVADMT_DESC	AdmissTypeDesc

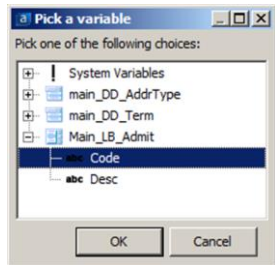
Either accept the default aliases or change them to fit your needs. This column will make suggestions when the default is unclear.




Notes

Clicking on the column header in the table will sort the fields.

Find your variable in the visual designer

1. Click in the condition row ellipses to bring up the SQL Editor.
2. Use the  button to bring up a list of variables.
3. Expand the control using the plus sign.
4. Select the variable that you want to use.



Where		
Table	Field	Condition
SARADAP	SARADAP_ADMT_CODE	= admit code variable 
	SARADAP_TERM_CODE_ENTR Y	= term code variable 
SPRADDR	SPRADDR_ATYP_CODE	= addr type code variable 

Using our example and naming convention this would equate to saradap_admt_code = :main_LB_admit_code

Order By		
Table	Field	Sort
SPRIDEN	SPRIDEN_ID	Ascending

This exercise uses the Finance module. An alternate Exercise 2 using the Student module follows for institutions that do not have Finance or require a different exercise.

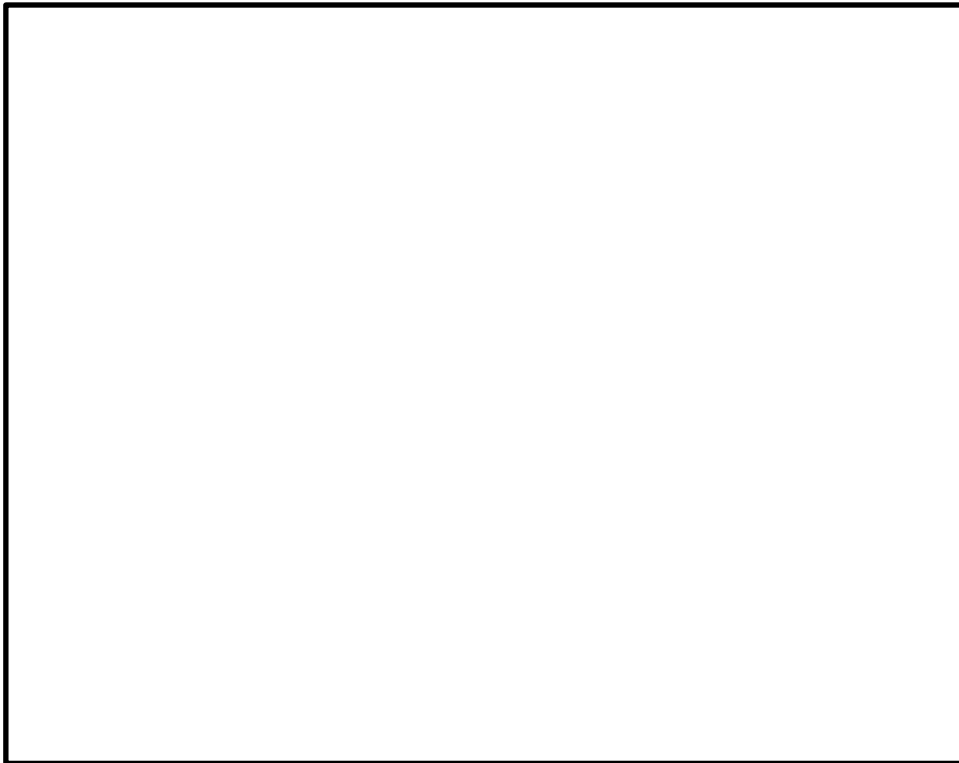
Exercise 2 - Budget Availability

Adrian is the CFO. He wants a report where he can see the budget summary for each account in an organization. It will be a lot of information so he wants it in a PDF grouped by fund and org.

Report Description

This DataBlock returns budget summary information to PDF. The information is grouped by fund and org in the report, and sorted by fund and org.

Dashboard Prototype






Notes



Form Objects




Notes

Chart of Accounts		
Control Type	Drop Down Box	
Variable Name	main_DD_COA	
Table	FTVCOAS	
Select	FTVCOAS_COAS_CODE	as Code
	FTVCOAS_TITLE	COASTitle
	FTVCOAS_COAS_CODE ' - ' FTVCOAS_TITLE	as Display
Where	None	
Order by	FTVCOAS_COAS_CODE	Ascending

Fiscal Year		
Control Type	Drop Down Box	
Variable Name	main_DD_FiscalYr	
Table	FTVFSYR	
Select	FTVFSYR_FSYR_CODE	as FiscalYr
	FTVFSYR_COAS_CODE	= COA code variable 
Where	FTVFSYR_COAS_CODE	= COA code variable 
Order by	FTVFSYR_FSYR_CODE	Ascending

Remember to use the  button in the SQL editor to find your variable.

Fund		
Control Type	List Box	
Variable Name	main_LB_Fund	
Table	FGBBAVL	
Select Summing	<Group By>	FGBBAVL_FUND_CODE FundCode
	FGBBAVL_COAS_CODE	= COA code variable 
Where	FGBBAVL_FSYR_CODE	= fiscal Year code variable 
Order by	FGBBAVL_FUND_CODE	Ascending

Organization			
Control Type	List Box		
Variable Name	main_LB_Orgn		
Table	FGBBAVL		
Select Summing	<Group By>	FGBBAVL_ORGN_CODE	OrgnCode
Where	FGBBAVL_COAS_CODE	= COA code variable	
	FGBBAVL_FSYR_CODE	= fiscal year code variable	
	FGBBAVL_FUND_CODE	= fund code variable	
Order by	FGBBAVL_ORGN_CODE	Ascending	





Notes

Report Query

Tables	
FGBBAVL	FTVFUND
FTVORGN	FTVACCT

Joins		
Right Field	Join Type	Left Field
FGBBAVL_COAS_CODE	Inner	FTVFUND_COAS_CODE
FGBBAVL_FUND_CODE	Inner	FTVFUND_FUND_CODE
FGBBAVL_COAS_CODE	Inner	FTVORGN_COAS_CODE
FGBBAVL_ORGN_CODE	Inner	FTVORGN_ORGN_CODE
FGBBAVL_COAS_CODE	Inner	FTVACCT_COAS_CODE
FGBBAVL_ACCT_CODE	Inner	FTVACCT_ACCT_CODE

Select		
Table	Field	Alias
FGBBAVL	FGBBAVL_FUND_CODE	
	FGBBAVL_ORGN_CODE	
	FGBBAVL_ACCT_CODE	
	FGBBAVL_PROG_CODE	
	FGBBAVL_SUM_ADOPT_BUD	
	FGBBAVL_SUM_BUD_ADJT	
	FGBBAVL_SUM_YTD_ACTV	
	FGBBAVL_SUM_ENCUMB	
	FGBBAVL_SUM_BUD_RSRV	
	FGBBAVL_PERIOD	
	FGBBAVL_COAS_CODE	
	FGBBAVL_FSYR_CODE	
FTVFUND	FTVFUND_TITLE	FundTitle
FTVORGN	FTVORGN_TITLE	OrgnTitle
FTVACCT	FTVACCT_TITLE	AcctTitle

Where		
Table	Field	Condition
FGBBAVL	FGBBAVL_COAS_CODE	= COA code variable 
	FGBBAVL_FSYR_CODE	= fiscal year code variable 
	FGBBAVL_FUND_CODE	= fund code variable 
	FGBBAVL_ORGN_CODE	= orgn code variable 

Order By		
Table	Field	Sort
FGBBAVL	FGBBAVL_FUND_CODE	Ascending
	FGBBAVL_ORGN_CODE	Ascending
	FGBBAVL_ACCT_CODE	Ascending

Notes

Alternate Exercise 2 – Course Schedule

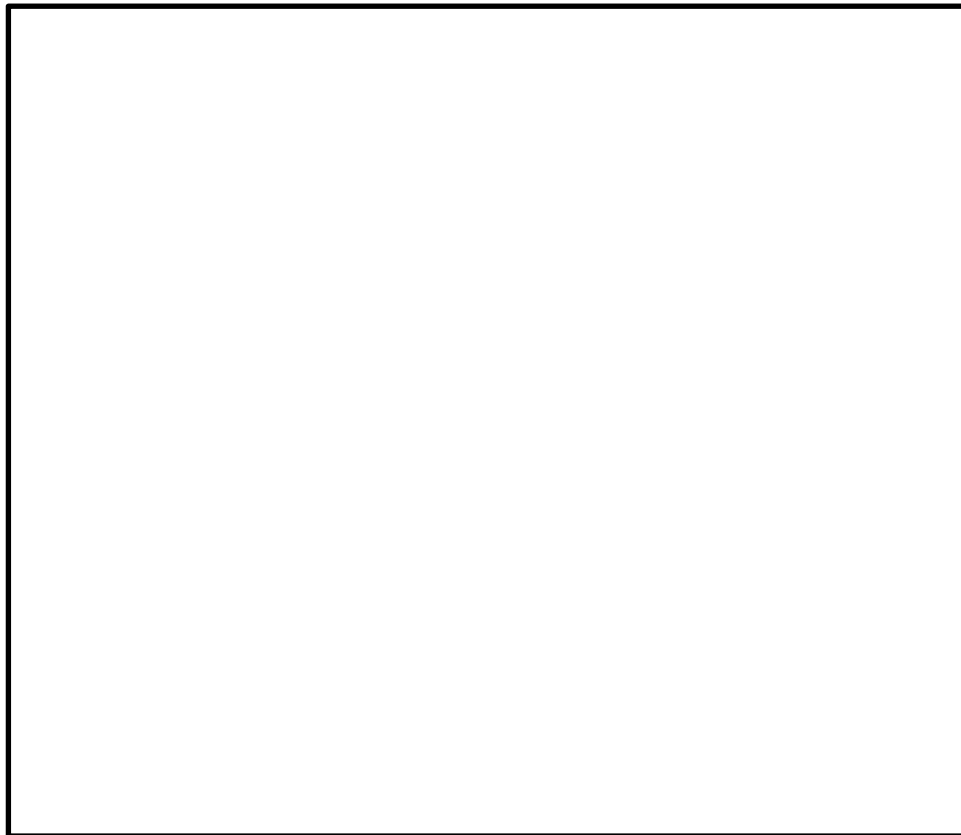
This alternate exercise uses the Student module.

Margaret is the Vice President for Academic Affairs. She wants a report where she can see course schedule information for a specific term and wants the option to select by campus, college, department and subject. It could be a lot of information so she wants it in a PDF.

Report Description

This DataBlock returns course schedule information to a PDF. The information is sorted by subject and course.

Dashboard Prototype





Notes



Form Objects




Notes





Term		
Control Type	Drop Down Box	
Variable Name	main_DD_Term	
Table	STVTERM	
Select	STVTERM_CODE	as Code
	STVTERM_DESC	as Desc
	STVTERM_CODE '-' STVTERM_DESC	as Display
Where	STVTERM_CODE	<> '000000'
	STVTERM_START_DATE	<= sysdate + 120
Order By	STVTERM_CODE	Descending

Campus		
Control Type	List Box	
Variable Name	main_LB_Campus	
Tables	STVCAMP	SSVSEC2
Inner Join	STVCAMP_CODE	SSVSEC2.CAMP_CODE
Select Distinct	STVCAMP_CODE	as Code
	STVCAMP_DESC	As Desc
	STVCAMP_CODE '-' STVCAMP_DESC	as Display
Where	SSVSEC2.TERM_CODE_KEY	= term code variable 
Order By	STVCAMP_DESC	Ascending

Remember to use the  button in the SQL editor to find your variable.

College		
Control Type	List Box	
Variable Name	main_LB_Coll	
Tables	STV_COLL	SSVSEC2
Inner Join	STV_COLL_CODE	SSVSEC2.COLL_CODE
Select Distinct	STV_COLL_CODE	as Code
	STV_COLL_DESC	as Desc
	STV_COLL_CODE '-' STV_COLL_DESC	as Display
Where	SSVSEC2.TERM_CODE_KEY	= term code variable 
	SSVSEC2.CAMP_CODE	= campus code variable 
Order By	STV_COLL_DESC	Ascending

Department		
Control Type	List Box	
Variable Name	main_LB_Dept	
Tables	STVDEPT	SSVSEC2
Inner Join	STVDEPT_CODE	SSVSEC2.DEPT_CODE
Select Distinct	STVDEPT_CODE	as Code
	STVDEPT_DESC	as Desc
	STVDEPT_CODE '-' STVDEPT_DESC	as Display
Where	SSVSEC2.TERM_CODE_KEY	= term code variable 
	SSVSEC2.CAMP_CODE	= campus code variable 
	SSVSEC2.COLL_CODE	= college code variable 
Order By	STVDEPT_DESC	Ascending

Subject		
Control Type	List Box	
Variable Name	main_LB_Subj	
Tables	STVSUBJ	SSVSEC2
Join	STVSUBJ_CODE	SSVSEC2.SUBJ_CODE
Select Distinct	STVSUBJ_CODE	as Code
	STVSUBJ_DESC	as Desc
	STVSUBJ_CODE '-' STVSUBJ_DESC	as Display
Where	SSVSEC2.TERM_CODE_KEY	= term code variable 
	SSVSEC2.CAMP_CODE	= campus code variable 
	SSVSEC2.COLL_CODE	= college code variable 
	SSVSEC2.DEPT_CODE	= dept code variable 
Order By	STVSUBJ_DESC	Ascending

Report Query

Notes

Tables






SSVSEC2	STVTERM
STVCAMP	STV COLL
STVDEPT	

Joins

Right Field	Join Type	Left Field
SSVSEC2.TERM_CODE_KEY	Inner	STVTERM_CODE
SSVSEC2.CAMP_CODE	Inner	STVCAMP_CODE
SSVSEC2.COLL_CODE	Inner	STV COLL_CODE
SSVSEC2.DEPT_CODE	Inner	STVDEPT_CODE

Select

Table	Field	Alias
SSVSEC2	SSVSEC2.SUBJ_CODE	
	SSVSEC2.CRSE_NUMBER	
	SSVSEC2.SEO_NUMBER_KEY	
	SSVSEC2.CRN_KEY	
	SSVSEC2.TITLE	
	SSVSEC2.TERM_CODE_KEY	
	SSVSEC2.MAXIMUM_ENROLLMENT	
	SSVSEC2.ACTUAL_ENROLLMENT	
	SSVSEC2.SEATS_AVAILABLE	
	SSVSEC2.PTRM_CODE	
	SSVSEC2.PTRM_START_DATE	
	SSVSEC2.PTRM_END_DATE	
	SSVSEC2.PRIMARY_INSTRUCTOR_ID	
	SSVSEC2.PRIMARY_INSTRUCTOR_LAST_NAME	
SSVSEC2.PRIMARY_INSTRUCTOR_FIRST_NAME		
STVTERM	STVTERM_DESC	
STVCAMP	STVCAMP_DESC	
STV COLL	STV COLL_DESC	
STVDEPT	STVDEPT_DESC	

Where		
Table	Field	Condition
SSVSEC2	SSVSEC2.TERM_CODE_KEY	= term code variable 
	SSVSEC2.CAMP_CODE	= campus code variable 
	SSVSEC2.COLL_CODE	= college code variable 
	SSVSEC2.DEPT_CODE	= dept code variable 
	SSVSEC2.SUBJ_CODE	= subject code variable 
	SSVSEC2.ACTIVE_SECTION_IN D	= 'Y'

Order By		
Table	Field	Sort
SSVSEC2	SSVSEC2.SUBJ_CODE	Ascending
	SSVSEC2.CRSE_NUMBER	Ascending
	SSVSEC2.SEO_NUMBER_KEY	Ascending

Notes

If Alternate Exercise 2 was used, see Alternate Exercise 3 (Modification II)

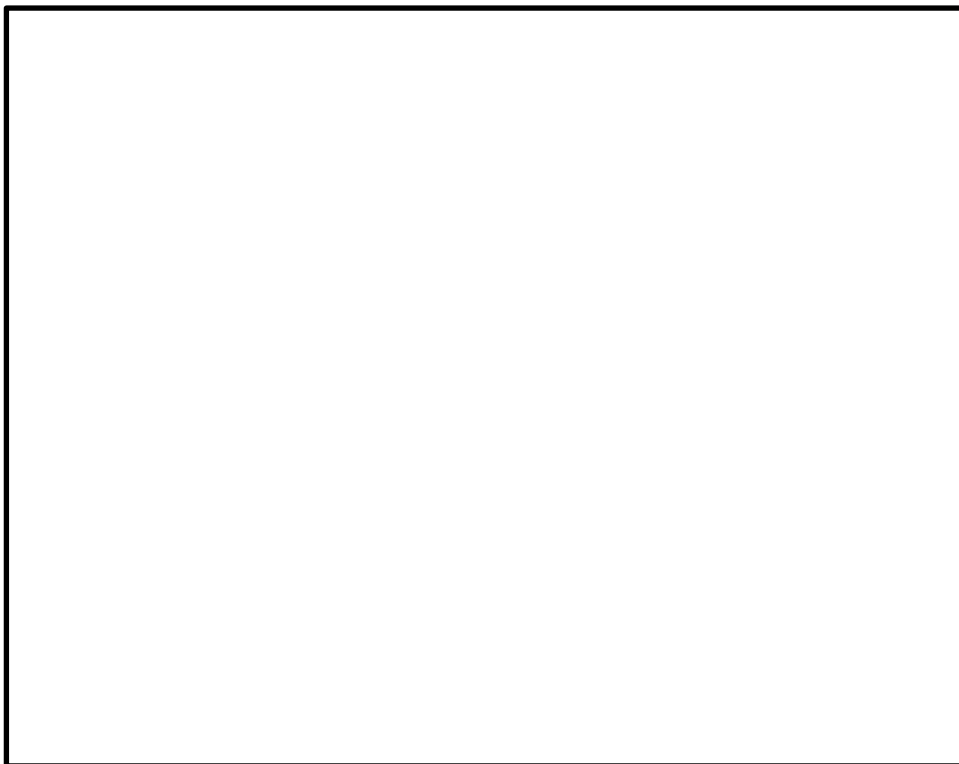
Exercise 3 - Budget Summary (Modification II)

James is Adrian's assistant. He calls you and says that he likes that new report you built for Adrian. James likes how you have the ability to select by fund and org, but he also wants to select by account. As you speak with him you discover he reviews the information at the account level and only looks at a couple of account numbers at a time. You ask if he wants to print out the information and he says not really – it is usually only a few lines of information and he would prefer to be able to get the information quickly and view it on the screen instead of running a report.

Report Description

This DataBlock adds a variable for account and returns budget summary information to a multi-column list box on the dashboard.

Dashboard Prototype







Notes

Form Objects

Notes

Variables

Account			
Control Type	List Box		
Variable Name	main_LB_Acct		
Table	FGBBAVL		
Select Summing	<Group By>	FGBBAVL_ACCT_CODE	AcctCode
Where	FGBBAVL_COAS_CODE	= COA code variable	
	FGBBAVL_FSYR_CODE	= fiscal year code variable	
	FGBBAVL_FUND_CODE	= fund code variable	
	FGBBAVL_ORGN_CODE	= orgn code variable	
Order by	FGBBAVL_ACCT_CODE	Ascending	

Run Dashboard	
Control Type	Button
Variable Name	main_BT_RunDashbd







Account Balance Display

Control	
Control Type	Multi-Column List Box
Variable Name	main_MC_AccountBalances

Tables
FGBBAVL

Select		
Table	Field	Alias
FGBBAVL	FGBBAVL_FUND_CODE	
	FGBBAVL_ORGN_CODE	
	FGBBAVL_ACCT_CODE	
	FGBBAVL_PROG_CODE	
	FGBBAVL_SUM_ADOPT_BUD	
	FGBBAVL_SUM_BUD_ADJT	
	FGBBAVL_SUM_YTD_ACTV	
	FGBBAVL_SUM_ENCUMB	
	FGBBAVL_SUM_BUD_RSRV	
	FGBBAVL_PERIOD	

Notes

Where		
Table	Field	Condition
FGBBAVL	FGBBAVL_COAS_CODE	= COAS code variable 
	FGBBAVL_FSYR_CODE	= fiscal year code variable 
	FGBBAVL_FUND_CODE	= fund code variable 
	FGBBAVL_ORGN_CODE	= orgn code variable 
	FGBBAVL_ACCT_CODE	= acct code variable 
Calculated	button variable 	is not null

A variable can be in the field row.

Order By		
Table	Field	Sort
FGBBAVL	FGBBAVL_FUND_CODE	Ascending
	FGBBAVL_ORGN_CODE	Ascending
	FGBBAVL_ACCT_CODE	Ascending

If the Alternate Exercise 2 was used, use this Alternate Exercise 3

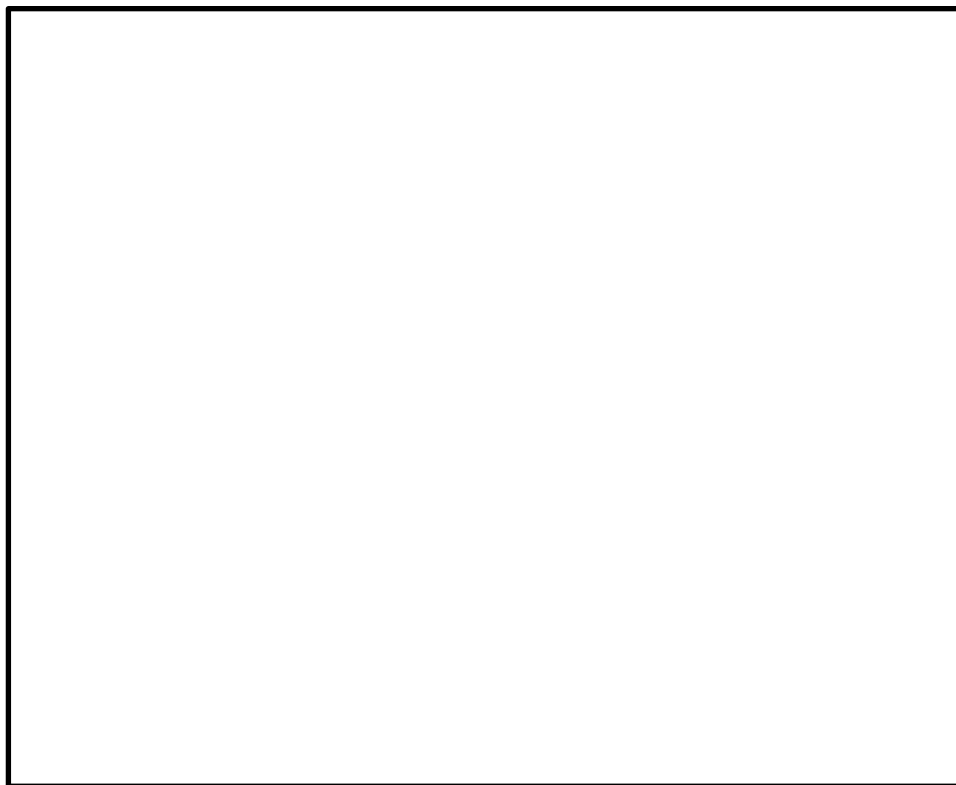
Alternate Exercise 3 – Course Schedule (Modification II)

Vicki is Margaret's assistant. She calls you and says she likes the new report you built for Margaret. Vicki likes how you have the ability to select by campus, college, department, and subject. She says she runs the report to search for particular courses. You ask if she wants to print out the information and she says not really – it's just a few lines of information and she would prefer to be able to get the information quickly and view it on the screen instead of running a report.

Report Description

This DataBlock adds a variable for course number information. A button controls the return of the information to the multi-column list box.

Dashboard Prototype



Notes

Form Objects

Notes

Variables

Course		
Control Type	List Box	
Variable Name	main_LB_Crse	
Tables	SSVSEC2	
Select	SSVSEC2.CRSE_NUMBER	as Crse
Where	SSVSEC2.TERM_CODE_KEY	= term code variable
	SSVSEC2.CAMP_CODE	= campus code variable
	SSVSEC2.COLL_CODE	= college code variable
	SSVSEC2.DEPT_CODE	= dept code variable
	SSVSEC2.SUBJ_CODE	= subject code variable
Order By	SSVSEC2.CRSE_NUMBER	Ascending

Run Dashboard	
Control Type	Button
Variable Name	main_BT_RunDashbd

Course Display

Control	
Control Type	Multi-Column List Box
Variable Name	main_MC_Course

Table
SSVSEC2

Select		
Table	Field	Alias
SSVSEC2	SSVSEC2.SUBJ_CODE	
	SSVSEC2.CRSE_NUMBER	
	SSVSEC2.SEO_NUMBER_KEY	
	SSVSEC2.CRN_KEY	
	SSVSEC2.TITLE	
	SSVSEC2.MAXIMUM_ENROLLMENT	
	SSVSEC2.ACTUAL_ENROLLMENT	
	SSVSEC2.SEATS_AVAILABLE	
	SSVSEC2.PTRM_CODE	
	SSVSEC2.PTRM_START_DATE	
	SSVSEC2.PTRM_END_DATE	
	SSVSEC2.PRIMARY_INSTRUCTOR_ID	
	SSVSEC2.PRIMARY_INSTRUCTOR_LAST_NAME	
	SSVSEC2.PRIMARY_INSTRUCTOR_FIRST_NAME	

Where		
Table	Field	Condition
SSVSEC2	SSVSEC2.TERM_CODE_KEY	= term code variable
	SSVSEC2.CAMP_CODE	= campus code variable
	SSVSEC2.COLL_CODE	= college code variable
	SSVSEC2.DEPT_CODE	= dept code variable
	SSVSEC2.SUBJ_CODE	= subject code variable
	SSVSEC2.ACTIVE_SECTION_IND =	= 'Y'
	SSVSEC2.CRSE_NUMBER	= course code variable
calculated	Button variable	is not null

A variable can be in the field row.

Notes

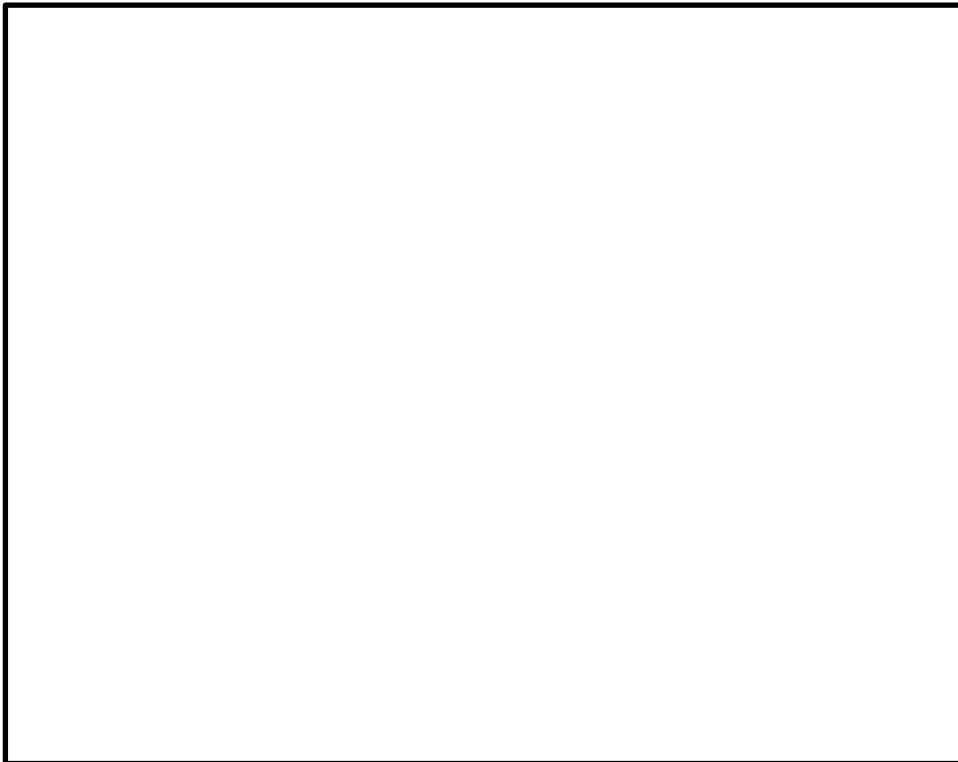
Exercise 4 - Student Course List

Michele is a faculty advisor. When she meets with her students, she likes to have a list of their current courses. She likes to get the list before the meeting and print it out so she has it ready. As you speak with her about her request you find out that, she doesn't always have the Student ID number handy so she needs the ability to search by last name as well as ID number.

Report Description

This DataBlock allows the user to search the database for a particular student by ID or last name and then choose a student, or group of students from the dashboard to see their course listing in a report.

Dashboard Prototype



Notes

Form Objects

Notes

Term		
Control Type	Drop Down Box	
Variable Name	main_DD_Term	
Table	STVTERM	
Select	STVTERM_CODE	as Code
	STVTERM_CODE '-' STVTERM_DESC	as Display
Where	STVTERM_CODE	<> '000000'
	STVTERM_START_DATE	<= sysdate + 30
Order By	STVTERM_CODE	Descending

Last Name	
Control Type	Edit Box
Variable Name	main_EB_LastName

Student ID Number	
Control Type	Edit Box
Variable Name	main_EB_IDNumber

Get Student List	
Control Type	Button
Variable Name	main_BT_RunDashbd

Student List Display

Control	
Control Type	Multi-Column List Box
Variable Name	main_MC_StudentList

Tables
SPRIDEN

Select		
Table	Field	Alias
SPRIDEN	SPRIDEN_PIDM	
	SPRIDEN_ID	IDNumber
	SPRIDEN_LAST_NAME	
	SPRIDEN_FIRST_NAME	

Where		
Table	Field	Condition
SPRIDEN	SPRIDEN_SEARCH_LAST_NAME	like upper(last name variable '%')
	SPRIDEN_ID	like upper(ID variable '%')
	SPRIDEN_ENTITY_IND	= 'P'
calculated	f_registered_this_term (SPRIDEN.SPRIDEN_PIDM, main_DD_Term.code)	= 'Y'
	Button variable	is not null

Order By		
Table	Field	Sort
SPRIDEN	SPRIDEN_LAST_NAME	Ascending
	SPRIDEN_ID	Ascending

Report Query

Tables	
SFRSTCR	SPRIDEN
SSBSECT	STVRSTS

Notes

Joins		
Tables	Join Type	On Field
SFRSTCR_RSTS_CODE	Inner	STVRSTS_CODE
SFRSTCR_TERM_CODE	Inner	SSBSECT_TERM_CODE
SFRSTCR_CRN	Inner	SSBSECT_CRN
SFRSTCR_PIDM	Inner	SPRIDEN_PIDM

Select		
Table	Field	Alias
SFRSTCR	SFRSTCR_TERM_CODE	
	SFRSTCR_CRN	
	SFRSTCR_GRDE_CODE	
	SFRSTCR_CREDIT_HR	
	SFRSTCR_RSTS_CODE	
STVRSTS	STVRSTS_DESC	
SSBSECT	SSBSECT_SUBJ_CODE	
	SSBSECT_CRSE_NUMB	
SPRIDEN	SPRIDEN_ID	IDNumber
	SPRIDEN_LAST_NAME	
	SPRIDEN_FIRST_NAME	
	SPRIDEN_PIDM	

Where		
Table	Field	Condition
SFRSTCR	SFRSTCR_PIDM	= PIDM variable
	SFRSTCR_TERM_CODE	= term code variable

Order By		
Table	Field	Sort
SPRIDEN	SPRIDEN_ID	Ascending
SFRSTCR	SFRSTCR_CRN	Ascending

Notes