ramco
Aviation Solutions

ramco

Dcube

User Guide

Version 5.5

DISCLAIMER

Table of Contents

BUSINESS PROCESS: DCUBE

■ **Scenario 1: Creation of a simple DCube Report with the following features**

- Involving a single SQL table

- No Join/Filter

- No Drill Down Option

- No User Rights

- No Horizontal Partitioning Drill Down Option

Output expected:

OU; Employee Code; Title; Employee Name (First Name, Middle Name, Last Name); Gender;

Emergency Contact Person; Relationship; Telephone Number; Mobile Number

SQL Table Used:

epin_personal_hist

S.No.	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User identifies the fields he needs in his report and the tables he requires to fetch for the same.	Administrator	DCube	Define Views	View definition	▶ The user enters data in the tabs mentioned below.

The activity "Define Views" has 8 tabs. The creation of the applicable tabs is discussed below.

Tab One: View Definition

S.No.	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User provides details in the "View Definition" tab.	Administrator	DCube	Define Views	View Definition	▶ The user enters/selects data in the following mandatory fields ▶ View Option (New/Existing) ▶ View Name ▶ View Type (Adhoc, Audit or Report) ▶ Component ▶ The user clicks on "Save View" to save.

Tab Two: Procedure Parameters

Not used in this scenario

Tab Three: Tables

S.No.	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User selects the table name	Administrator	DCube	Define Views	Select Tables	▶ The user selects the table from which the views are to be created and clicks on "Save Tables" to save.

Tab Four: Columns

S.No.	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User selects the columns from the table.	Administrator	DCube	Define Views	Select Columns	▸ The column "Column" displays the data in the following format. ▸ <TableName>, <Column Name> (DataType) ▸ The user selects the columns in the table that is required to fetch him the required output. ▸ The mandatory columns are Column, Column Alias, Display Sequence (if the option Visible is set to Yes),Visible. ▸ The user can use the "User Function" option to define his own function. ▸ For example. If Gender is stored as 'M and 'F' in the tables, User Function can be used to display Male if 'M' is stored and Female if 'F' is stored. ▸ The user can also use the "Sort Order" property to sort the results either in

S.No.	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
						Ascending or Descending order.

Tab Five: Join and Filter

Not required in this scenario

Tab Six: View SQL

The query framed can be viewed here. This is a read-only screen and cannot be tampered with.

Tab Seven: Procedure Inputs

Not required in this scenario

Tab Eight: Execute SQL

S.No.	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User executes the query.	Administrator	DCube	Define Views	Execute SQL	▸ The user executes the query to view the required output. He has an option to Print/Export to Excel or can view it as a graph.

- **Scenario 2: Creation of a DCube Report with the following features**

    - Involving two SQL views

    - Provision to facilitate drill downs

    - Usage of Join/Filter

    - Displaying description from Quick Codes (A SQL table where the description is stored)

Output expected:

Employee Code; Title; Employee Name (First Name, Last Name); DOB; DOJ; Employee Type

SQL Tables Used:

None

SQL Views Used:

hrcmn emp personal vw

hrcmn sys quick codes vw

S.No.	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User identifies the fields he needs in his report and the tables he requires to fetch for the same.	Administrator	DCube	Define Views	View definition	▶ The user enters data in the tabs mentioned below.

The activity "Define Views" has 8 tabs. The creation the applicable tabs are discussed below.

Tab One: View Definition

S.No	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User provides details in the "View Definition" tab.	Administrator	DCube	Define Views	View Definition	▸ The user enters/selects data in the following mandatory fields ▸ View Option (New/Existing) ▸ View Name ▸ View Type (Adhoc, Audit or Report) ▸ Component ▸ Public Access and Drill Down option ▸

Tab Two: Procedure Parameters

Not used in this scenario

Tab Three: Tables

S.No	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User selects the table name	Administrator	DCube	Define Views	Select Tables	▸ The user selects the table that would fetch him the required data.

Tab Four: Columns

S.No	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User selects the columns from the table.	Administrator	DCube	Define Views	Select Columns	▶ The column "Column" displays the data in the following format. ▶ <TableName>, <Column Name> (DataType) ▶ The user selects the columns in the table that is required to fetch him the required output. ▶ The mandatory columns are Column, Column Alias, Display Sequence (if the option Visible is set to Yes),Visible. ▶ The user can use the "User Function" option to define his own function. ▶ For eg. If Gender is stored as 'M and 'F' in the tables, User Function can be used to display Male if 'M' is stored and Female if 'F' is stored. ▶ The user can also use the "Sort Order" property to sort the results either in Ascending or Descending order.

Tab Five: Join and Filter

S.No	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User enters the joins and filters, if any, used for this report.	Administrator	DCube	Define Views	Join and Filter	▸ The user joins and filters the columns from the tables/views as required. ▸ If a filter is required, the column on which it is required is selected and the filter criteria specified. i.e Filtration based on a value or on a field can be specified. ▸ In this page, the user defines the equation between two tables(i.e the equation between the fields)

Tab Six: View SQL

The query framed can be viewed here. This is a read-only screen and cannot be tampered with.

Tab Seven: Procedure Inputs

Not required in this scenario

Tab Eight: Execute SQL

S.No.	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User executes the query.	Administrator	DCube	Define Views	Execute SQL	▶ The user executes the query to view the required output. He has an option to Print/Export to Excel or can view it as a graph.

- **Scenario 3: Creation of a DCube Report with the following features**

  - Involving a SQL table and a SQL view
  - Provision to facilitate drill down(s)
  - Usage of Join/Filter
  - Usage of Data Alarm
  - Usage of Set User Rights
  - Displaying description from Quick Codes (A SQL Table which stores the description)

Output expected:

Employee Code; Title; Employee Name (First Name, Middle Name, Last Name, No. of previous organizations worked in);

The column '*No. of previous organizations worked in'* has a hyperlink which when clicked displays more details like the following.

From Date, To Date, Organization , Organization Type, Job Description, Department, Gross Annual Income, Currency, Reason for change

SQL Table Used:

epin_work_experience (Main and Child View)

SQL Views Used:

hrcmn_emp_personal_vw (Main View)

hrcmn sys quick codes vw(Child View)

S.No.	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User identifies the fields he needs in his report and the tables he requires to fetch the same.	Administrator	DCube	Define Views	View definition	‣ The user enters data in the tabs mentioned below.

The activity "Define Views" has 8 tabs. The creation the applicable tabs are discussed below.

Tab One: View Definition

S.No	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User provides details in the "View Definition" tab.	Administrator	DCube	Define Views	View Definition	‣ The user enters/selects data in the following mandatory fields ‣ View Option (New/Existing) ‣ View Name ‣ View Type (Adhoc, Audit or Report) ‣ Component ‣ Public Access and Drill Down option

Tab Two: Procedure Parameters

Not used in this scenario

Tab Three: Tables

S.No	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User selects the table name	Administrator	DCube	Define Views	Select Tables	▶ The user selects the table that would fetch him the data for the required output.

Tab Four: Columns

S.No	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User selects the columns from the table.	Administrator	DCube	Define Views	Select Columns	▶ The column "Column" displays the data in the following format. ▶ <TableName>, <Column Name> (DataType) ▶ The user selects the columns in the table that is required to fetch him the required output. ▶ The mandatory columns are Column, Column Alias, Display Sequence (if the option Visible is set to Yes),Visible. ▶ The user can use the "User Function" option to define his own function. ▶ For example: If Gender is stored as 'M and 'F' in the tables, User Function can be used to

S.No	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
						display Male if 'M' is stored and Female if 'F' is stored. ▶ The user can also use the "Sort Order" property to sort the results either in Ascending or Descending order.

Define Data Alarm

S.No	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User clicks on the hyperlink 'Define Data Alarm'.	Administrator	DCube	Define Views	Define Data Alarm	▶ The user selects the column for which an alarm has to be set either for a value or for a field. ▶ It serves to display the data, which is specified as a filter criteria to appear in a different, highlighted manner in the view. This kind of highlighting makes it easier for the viewer to spot data discrepancies as well as data impacts.

Tab Five: Join and Filter

S.No	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User enters the joins and filters, if any, used for this report.	Administrator	DCube	Define Views	Join and Filter	▶ The user joins and filters the columns from the tables/views as required.

S.No	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
						▶ If a filter is required, the column on which it is required is selected and the filter criteria specified. i.e Filtration based on a value or on a field can be specified. ▶ In this page, the user defines the equation between two tables (i.e the equation between the fields)

Tab Six: View SQL

The query framed can be viewed here. This is a read-only screen and cannot be tampered with.

Tab Seven: Procedure Inputs

Not required in this scenario

Tab Eight: Execute SQL

S.No.	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User executes the query.	Administrator	DCube	Define Views	Execute SQL	▶ The user executes the query to view the required output. He has an option to Print/Export to Excel or can view it as a graph.

Activity : Configure Drill Down

S.No.	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User configures the drill downs for the main view along with the column on which the hyperlink should appear.	Administrator	DCube	Configure Drill Down	Configure Drill Down	▶ The user mentions the main view. He selects the column on which the hyperlink should appear. ▶ The child (Drill down) views are identified. The column in the child view that matches the column in the main view is specified. ▶ "Save Drill Down" saves the drill downs enlisted in the multilane.

Activity: Set User Rights

S.No.	FLOW OF EVENTS	PRIMARY ACTOR(S)	BUSINESS COMPONENT	ACTIVITY	PAGE	FUNCTIONAL STEPS
1.	User decides the user and the view for which he wants to grant or revoke rights for individual columns.	Administrator	DCube	Set user rights	Set user rights	▶ User finalizes the users for whom rights have to be set. The appropriate views are fetched. Rights are either granted or revoked for the columns in the tables used in the selected view. ▶ User rights for a view can also be specified.(By not checking the Public Access option in Define Views tab)

S.No.	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
						▶ User rights for rows can be specified in the Horizontal Partitioning activity.

Activity: Inquiries

S.No.	Flow of Events	Primary Actor(s)	Business Component	Activity	Page	Functional Steps
1.	User provides the name of the view that he wishes to view	Administrator	DCube	Inquires	Select Views	▶ User clicks on the view that he wants to see. The drill downs, if any, will appear as hyperlinks. On clicking the same, the drill down views can be viewed. ▶ There are 2 buttons on this page (Print/Export to Excel and Graph. ▶ The user has an option to export / print to excel or to view the same as a graph. The prerequisites for the same are mentioned below.

Button: Print/Export to Excel in Inquires activity.

Clicking this button prints or exports to the report excel.

Prerequisites for Print/Export to Excel

The following steps need to be done for exporting or printing to excel.

▶ Open the Browser

▶ In the Tools menu click Internet Options

▶ Click Security Tab in Internet Options Dialog Box

▶ Click Custom Level Button

▶ The following options has to be set

        A. Download signed ActiveX controls - (Enable or Prompt)

        B. Download unsigned ActiveX controls - (Enable or   Prompt)

        C. Initialize and script ActiveX controls not marked as safe - (Enable or Prompt)

        D. Run ActiveX controls and plug-ins - (Enable or Prompt)

        E. Script ActiveX controls marked safe for scripting - (Enable or Prompt)

Button: Graph in Inquires page

Clicking on the button shows the result in a graph.

Kawa Chart needs to be installed in the web server for graphs.