Test Case Management
Oracle FLEXCUBE Universal Banking
Release 14.8.3.0.0
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1 Preface

This document describes the Test Case Management module in Oracle FLEXCUBE Development Workbench for Universal Banking and guides the developers/testers on how to use this feature.

1.1 Audience

This document is intended for FLEXCUBE Application developers/users that use Developer Workbench to develop various FLEXCUBE components.

To Use this manual, you need conceptual and working knowledge of the below:

Proficiency	*Resources*
FLEXCUBE Functional Architecture	Training programs from Oracle Financial Software Services.
FLEXCUBE Technical Architecture	Training programs from Oracle Financial Software Services.
FLEXCUBE Object Naming conventions	Development Overview Guide
Working knowledge of Web based applications	Self Acquired
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL developer	Respective vendor documents
Working knowledge of PLSQL & SQL Language	Self Acquired
Working knowledge of XML files	Self Acquired

1.2 Related Documents

Development Workbench – Administration
Development Workbench – Getting Started

2 Introduction

This document provides information on:

- Chapter 2 , "Introduction"
- Chapter 3 , "Overview of Test Case Management"
- Chapter 4 , "Login"
- Chapter 5 , "Home Page"
- Chapter 6, "Block Detail Upload "
- Chapter 7 , "Excel Template Generation "
- Chapter 8 , "Test Case Upload"
- Chapter 9 , "Create Request"
- Chapter 10 , "Test Case Execution"
- Chapter 11 , "Run Chart Master"
- Chapter 12 , "Run Chart Execution"
- Chapter 13 , "Derivation"
- Chapter 14 , "Migration of Data using TCM Tool "

3 Overview of Test Case Management

This is a tool (provided as part of Developer Workbench), which can be used to save Test plans and to execute the test cases. This is very helpful for a Testing team, where they need not do maintenance for every release. User can execute the Run Charts & proceed with transactions.

In this tool, user can store FLEXCUBE Maintenance/Online Screens Test Cases into the database by uploading them in the form of Excel sheets to the TCM tool. These Test Cases can be logically grouped together to build a Run Chart to run all test cases with a single operation. Test Case Management system has been designed to automate the ITRs within each release. This tool would reduce lot of time and effort of the Testing team.

Below sections explain the common administrative features of Development Workbench. If user is already comfortable with these, chapter 4 and 5 can be skipped

Main functions of Development Workbench Admin User:

- Creating a new release
- Creating Release admin for the specific release

Main functions of Release Admin User:

- Creating User ID's

Main functions of TCM User:

- Block Detail Upload
- Test Case Upload
- Create Request
- Test Case Execution
- Run chart Definition
- Run Chart Execution

4 Login

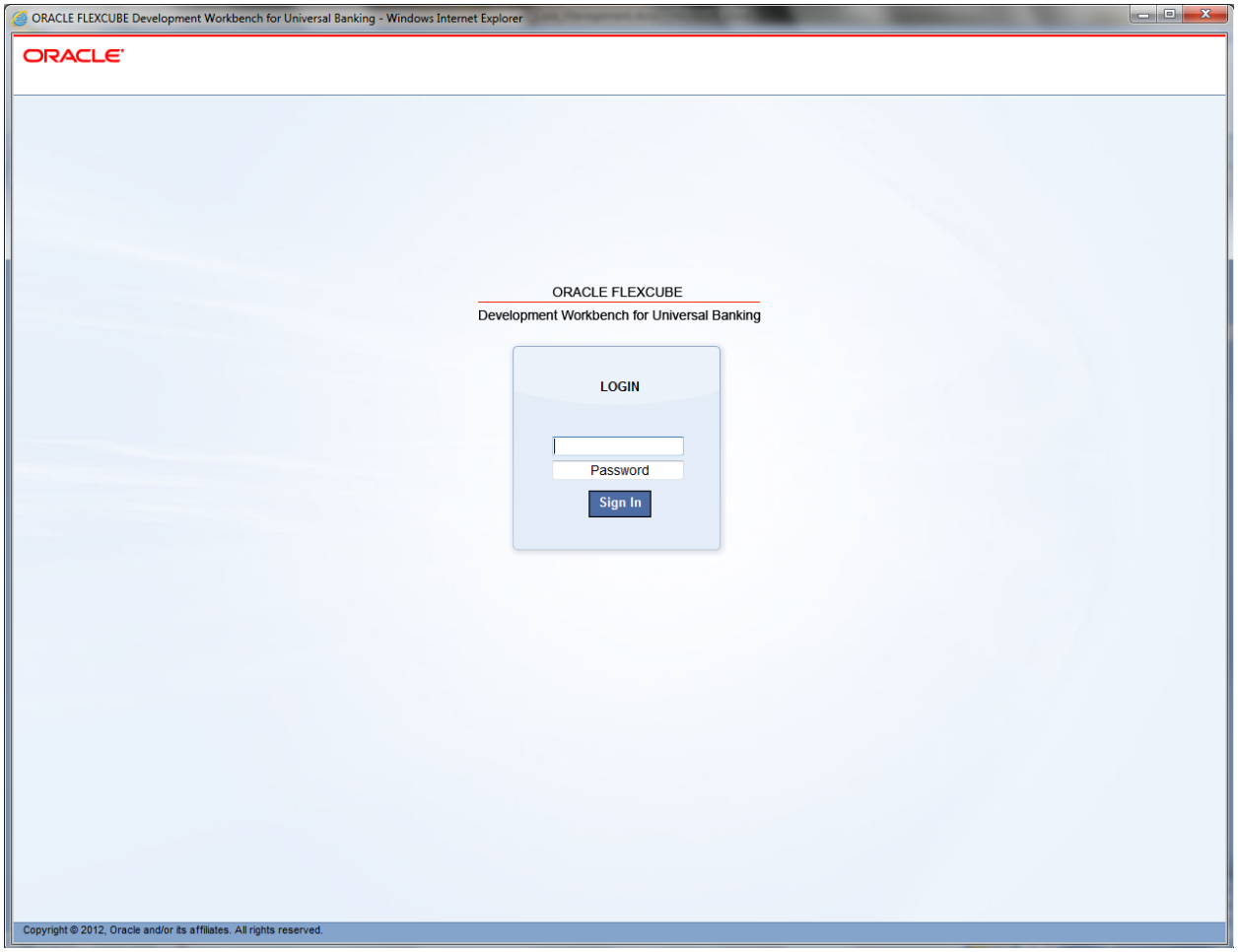


Fig 4.1: Login Screen

Only the Release Admin has rights to create new Users. Development Workbench Admin will create a new release and assign one user as Release admin for that release.

Note: User should make sure that the same User ID is created in FLEXCUBE as well.

5 Home Page

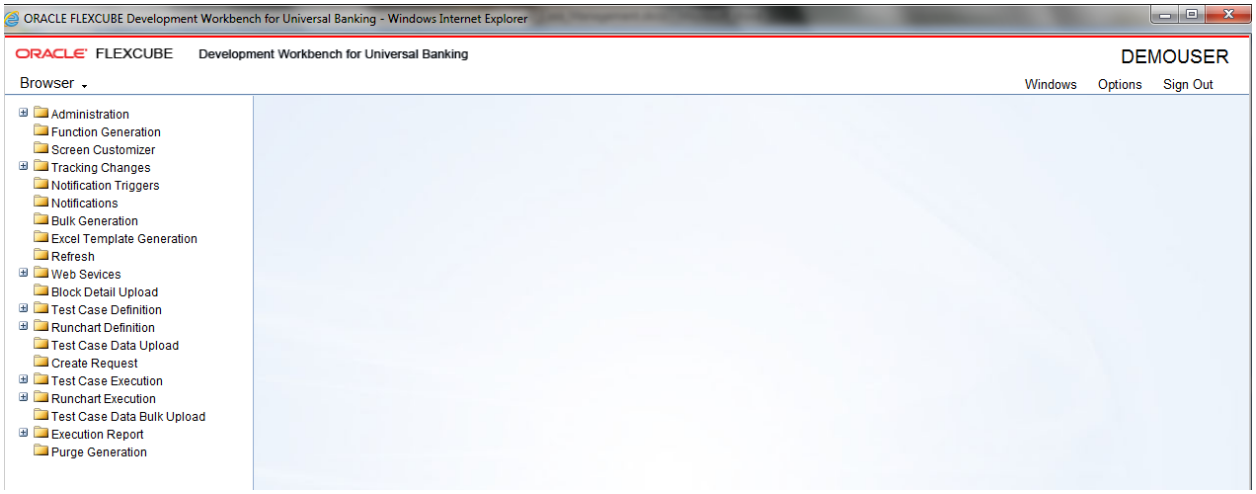


Fig 5.1: The Home Page, after clicking on Browser

5.1 Browser

In this screen user can view Menu by clicking on **Browser.**

5.2 Windows

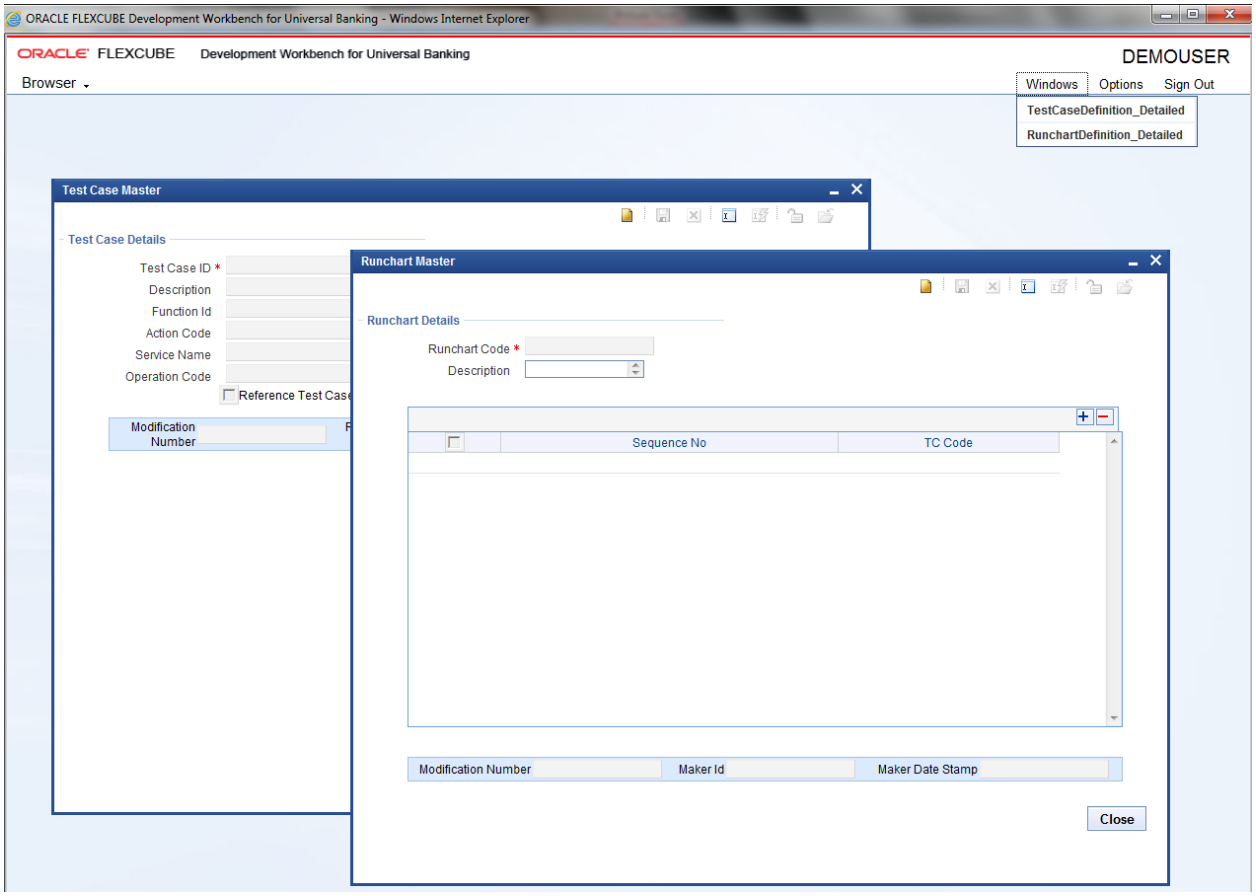


Fig 5.2.1: The open Windows

This is useful to swap between the windows.

5.3 Launch FC UBS

On click of this link the FCUBS Application is launched. The FCUBS link is given at the time of Release creation which can be modified at any stage of release by the release Admin.

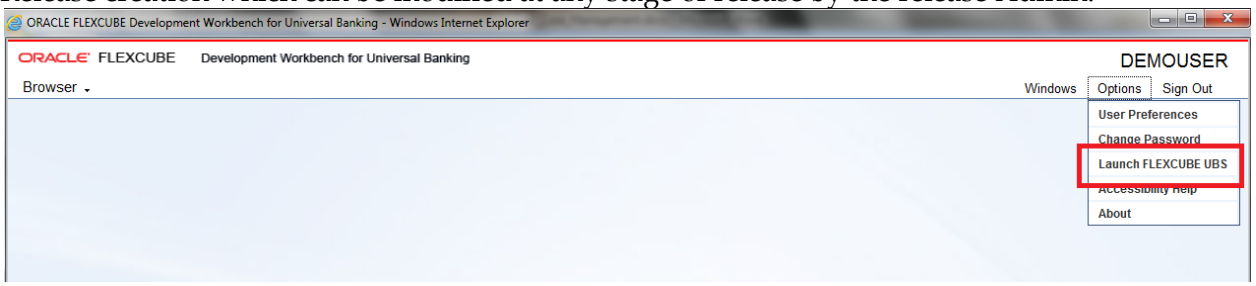


Fig 5.3.1: Launch FCUBS

5.4 User Preferences

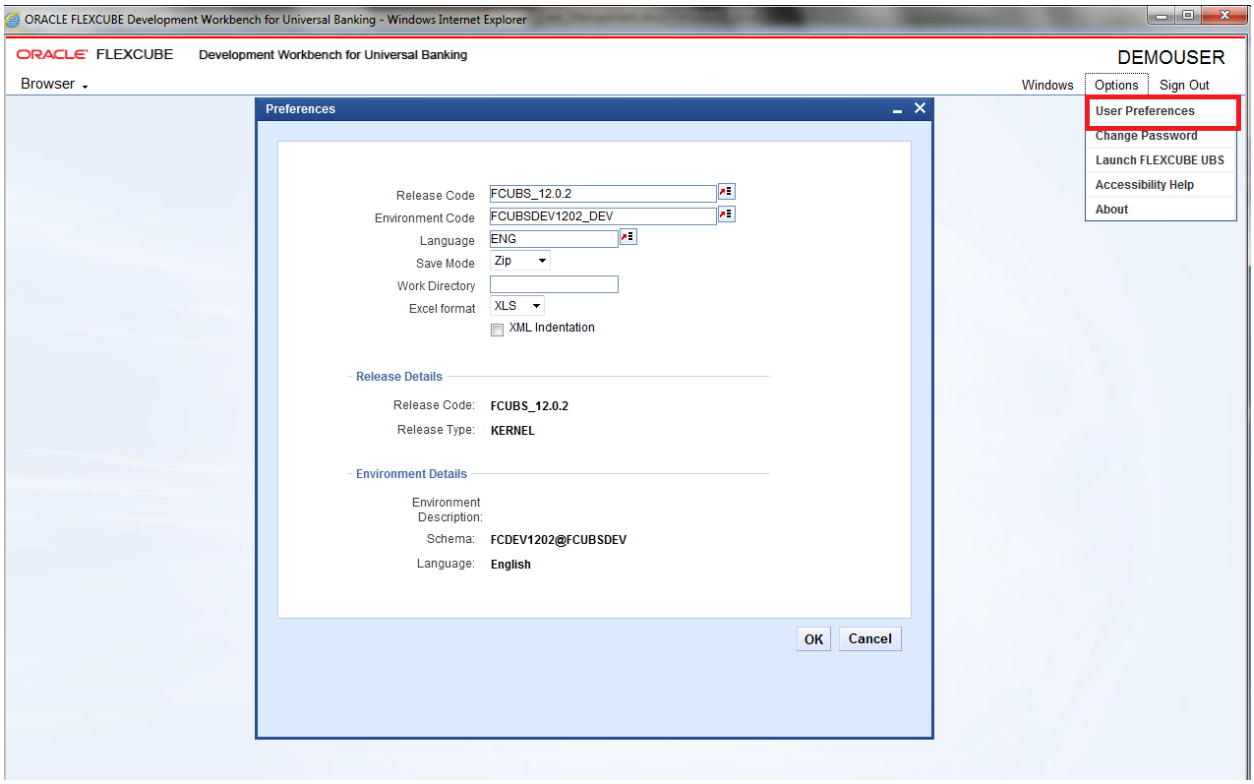


Fig 5.4.1: The User Preferences

This screen shows the current user release & schema details. User can get this information on clicking on User Preferences. User will also be able to Switch Between releases and Environments Using the User Preferences option, near the top right corner of the screen.

On clicking the Choose button, LOV buttons next to Release code and Environment code will appear and user can view the releases and the corresponding environments and can map accordingly.

5.5 Change Password

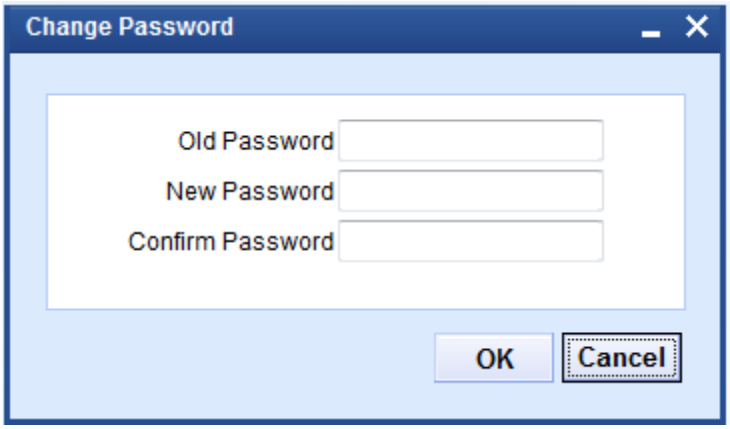


Fig 5.5.1: The Screen to Change Password

User can change password by clicking on Change Password.

5.6 Sign Out

The user can sign Out of TCM. On Successful Sign Out, the Login Page is launched.

6 Block Detail Upload

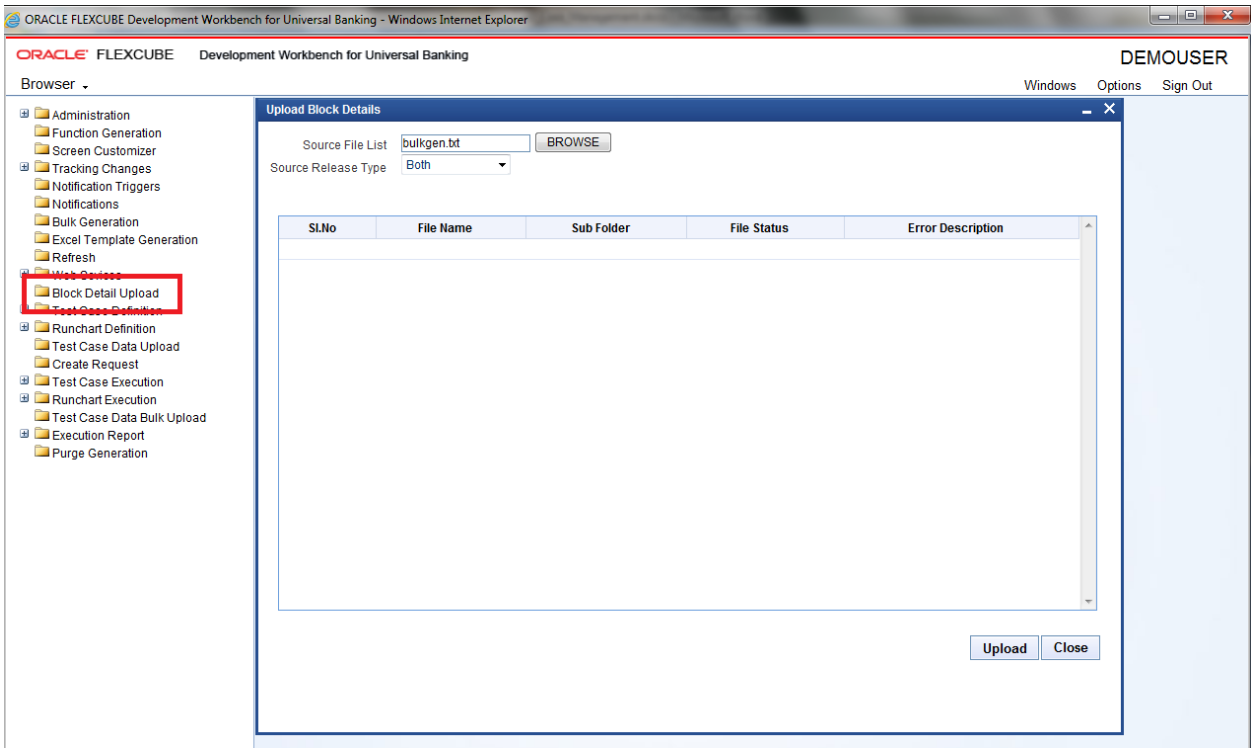


Fig 6.1: The Upload Block Details Screen

TCM internally requires the Blocks and fields Details of a function Id. These details can be extracted from the function Ids _RAD.xml through this screen. A text file containing the list of RAD XML's to be extracted has to be prepared along with all of its call forms. The text file should contain the absolute location of the RAD Xml.

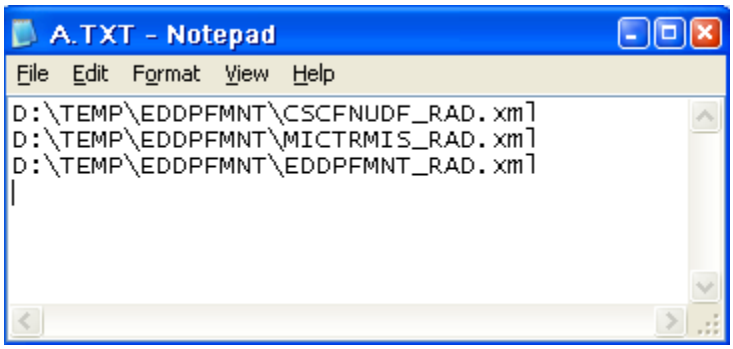


Fig 6.2: The List of RAD xmls

Note: To generate a text file which contains a list of RADXML file user has to follow these steps:

- Command Prompt > Specific folder where RADXMLS are stored >
- DIR /B /S >Files.txt

Tables: TCTM_BLOCK_DETAILS, TCTB_BLOCK_DETAILS, TCTM_FID_CALL_FORMS, TCTM_FID_FUNCTIONS, TCTM_BLOCK_IO_TAGS

Note: Block detail information needs to be re-generated every time there is a change in the source.
Call form has to be placed above the main function id in the source file list

7 Excel Template Generation

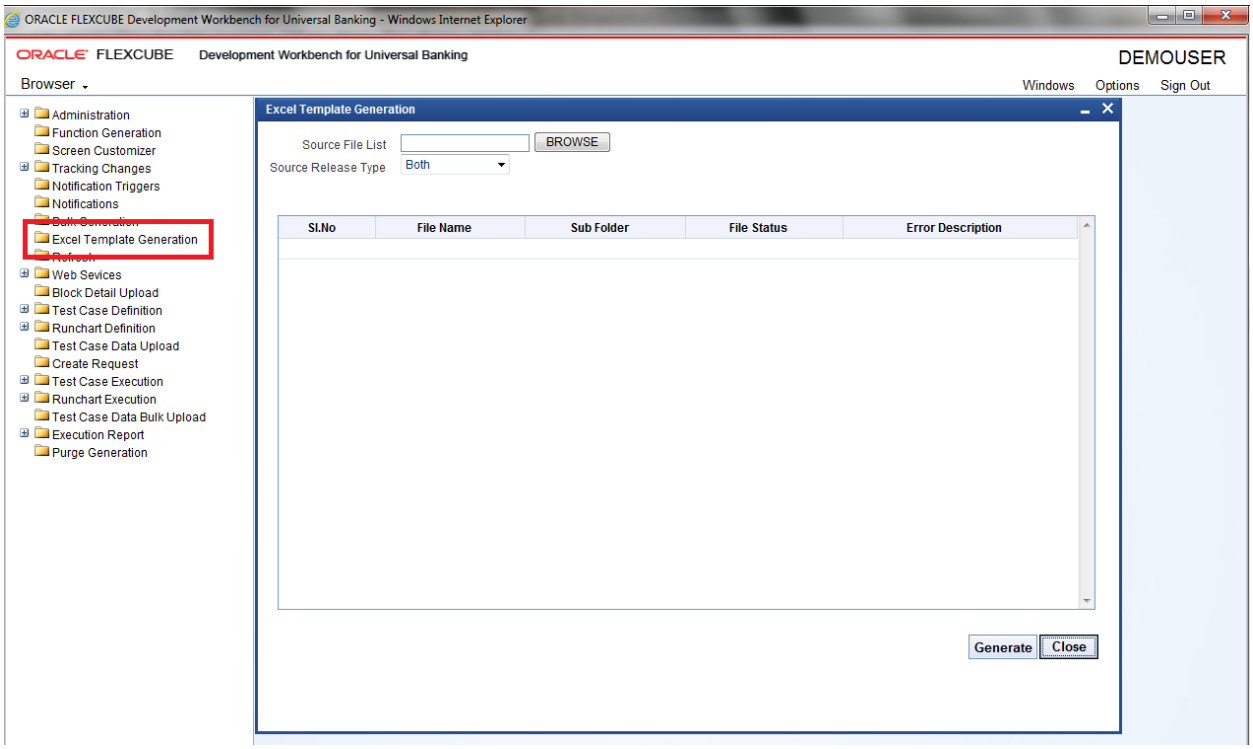


Fig 7.1: The Excel template Generation Screen

Similar to block detail upload, a text file which contains the list of RADXMLS along with path, has to be uploaded here to get the excel templates.

Note: Excel template needs to be re-generated every time there is a change in the source after upload of the new block details.

8 Test Case Upload

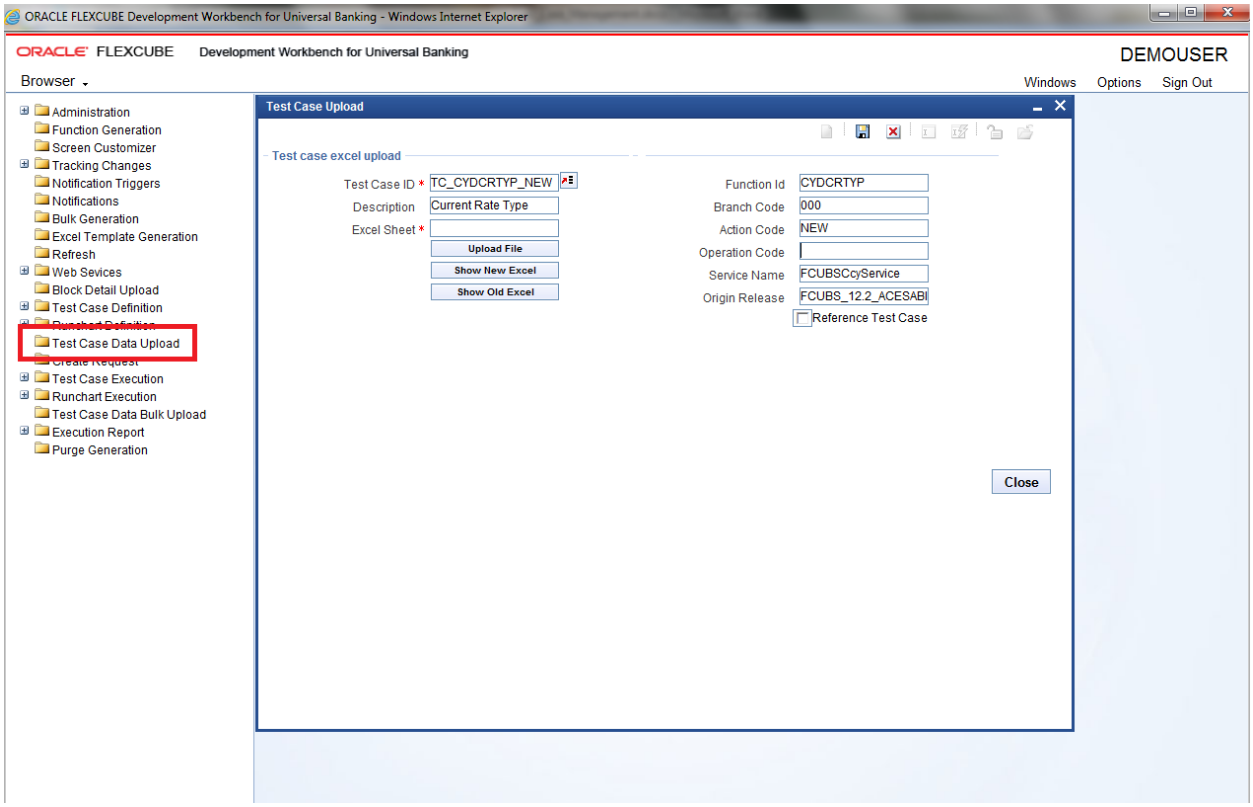


Fig 9.1: The Test Case Upload Screen

This is the screen to upload the respective excel template along with data. If multiple columns are there in Excel sheet, TCM will create multiple Test Cases.

For example:

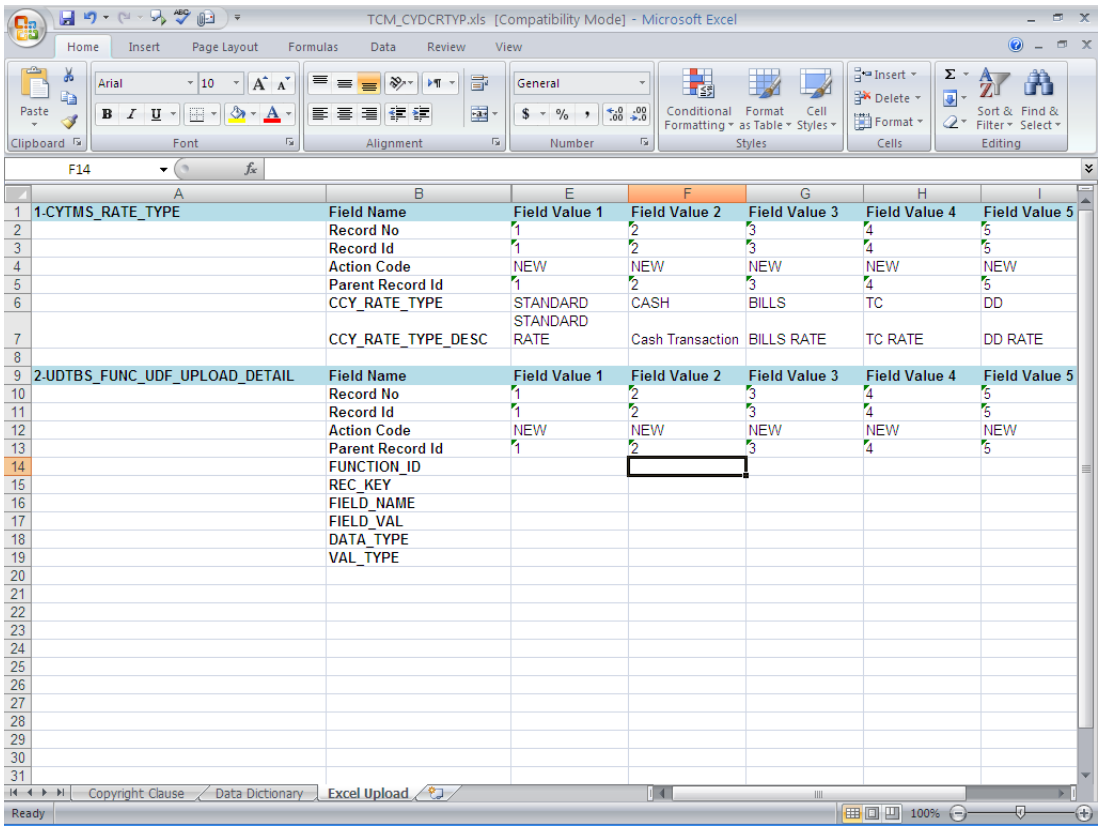
TEST CASE: COUNTRY_CODES

If user uploads data with two columns – for INDIA & USA

System will create 2 test cases as

- **COUNTRY_CODES_01** (this TC to create country - INDIA)
- **COUNTRY_CODES-02** (this TC to create country - USA)

Tables: TCTB_BLOCK_DATA, TCTM_BLOCK_DATA



	A	B	E	F	G	H	I
1	1-CYTMS_RATE_TYPE	Field Name	Field Value 1	Field Value 2	Field Value 3	Field Value 4	Field Value 5
2		Record No	1	2	3	4	5
3		Record Id	1	2	3	4	5
4		Action Code	NEW	NEW	NEW	NEW	NEW
5		Parent Record Id	1	2	3	4	5
6		CCY_RATE_TYPE	STANDARD	CASH	BILLS	TC	DD
7		CCY_RATE_TYPE_DESC	STANDARD RATE	Cash Transaction	BILLS RATE	TC RATE	DD RATE
8							
9	2-UDTBS_FUNC_UDF_UPLOAD_DETAIL	Field Name	Field Value 1	Field Value 2	Field Value 3	Field Value 4	Field Value 5
10		Record No	1	2	3	4	5
11		Record Id	1	2	3	4	5
12		Action Code	NEW	NEW	NEW	NEW	NEW
13		Parent Record Id	1	2	3	4	5
14		FUNCTION_ID					
15		REC_KEY					
16		FIELD_NAME					
17		FIELD_VAL					
18		DATA_TYPE					
19		VAL_TYPE					

Fig 9.2: Excel sheet – to upload into TCM

Take note of following points while uploading excel sheet.

i) The Parent Record Id in the Master Data block's sheet should be null
ii) The Parent Record Id in Non-Master Blocks should not be null
iii) All data needs to be input into the sheet as String only. I.e. for Date and Number fields, they need to be input with an apostrophe before the value. E.g. '2010/02/02 or '9087 etc
iv) Excel sheet should be 2003 version (File extension name should be .xls)

Note: For proper display of excel sheet in browser, the user needs to ensure the following In Windows explorer Folder Options→File Types

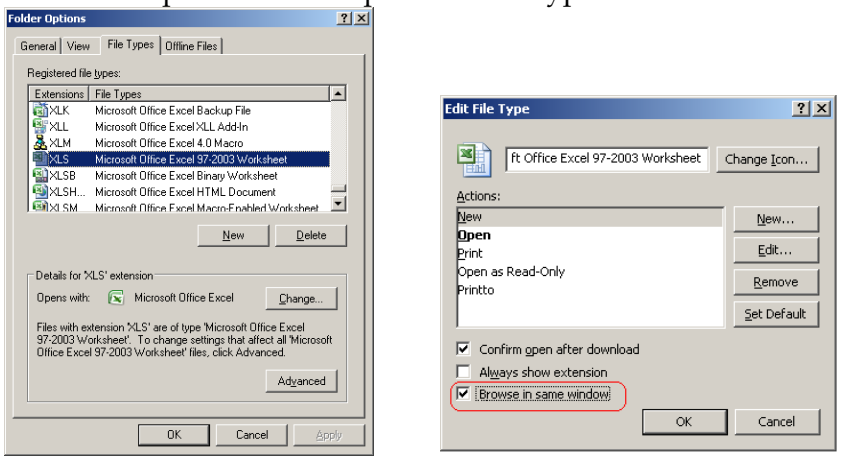


Fig 9.3: Browse in Same Window Checkbox

The Browse in Same Window Checkbox needs to be checked.

9 Create Request

The FLEXCUBE XML or Web service Xml can be viewed at this stage. The Xml is constructed from the Excel sheet that was uploaded in the previous stage. Only Execute Query operation is available.

10 Test Case Execution

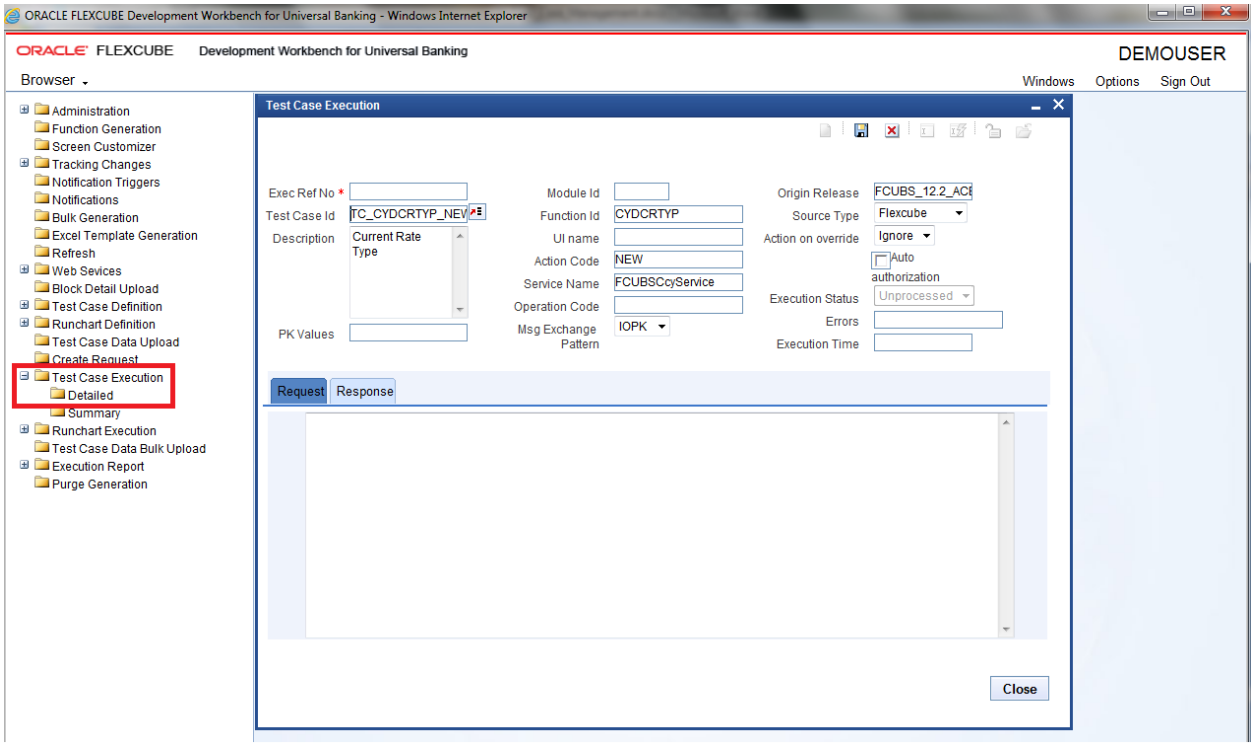


Fig 11.1: Test Case Execution screen

Once the data is uploaded successfully, test case can be executed from this screen.
Test Case ID: Each execution generates a unique reference number, which may be used later for viewing the status of execution
Source Type: Source type can be FLEXCUBE/Web Services, depending on whether the execution is to be done from FLEXCUBE or and external System.
Action on override: In case overrides occur for a function id, the user may either ignore those overrides, or stop the execution and give Error status.
Auto Authorization: On selecting this check box, executed records will as authorized records.
Execution Status: This will show whether record is executed successfully or not.
Tables: TCTB_TC_EXEC_MASTER,, TCTB_TC_CURR_DATA

11 Run Chart Master

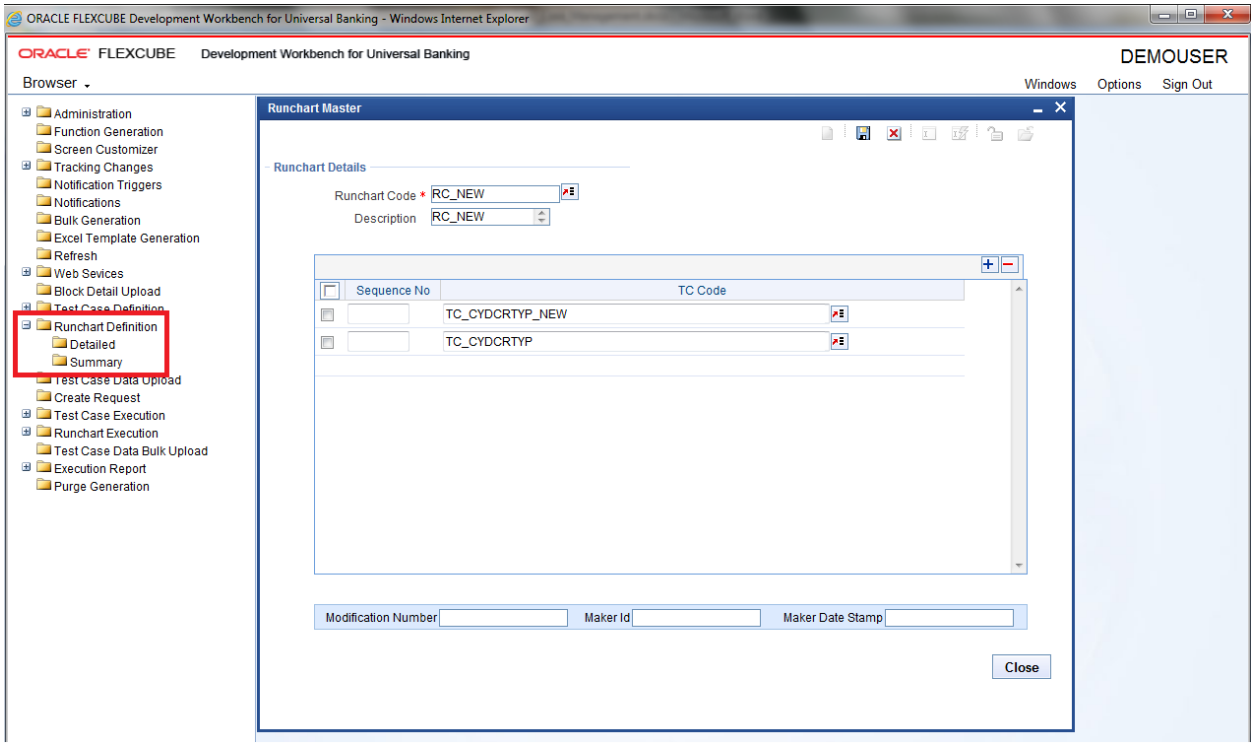


Fig 12.1: Run Chart Master Screen

In this screen user can add multiple test cases and make a single Run Chart to execute at one shot. User has to enter sequence number, it's a mandatory.
Tables: TCTM_RC_MASTER, TCTM_RC_TCS

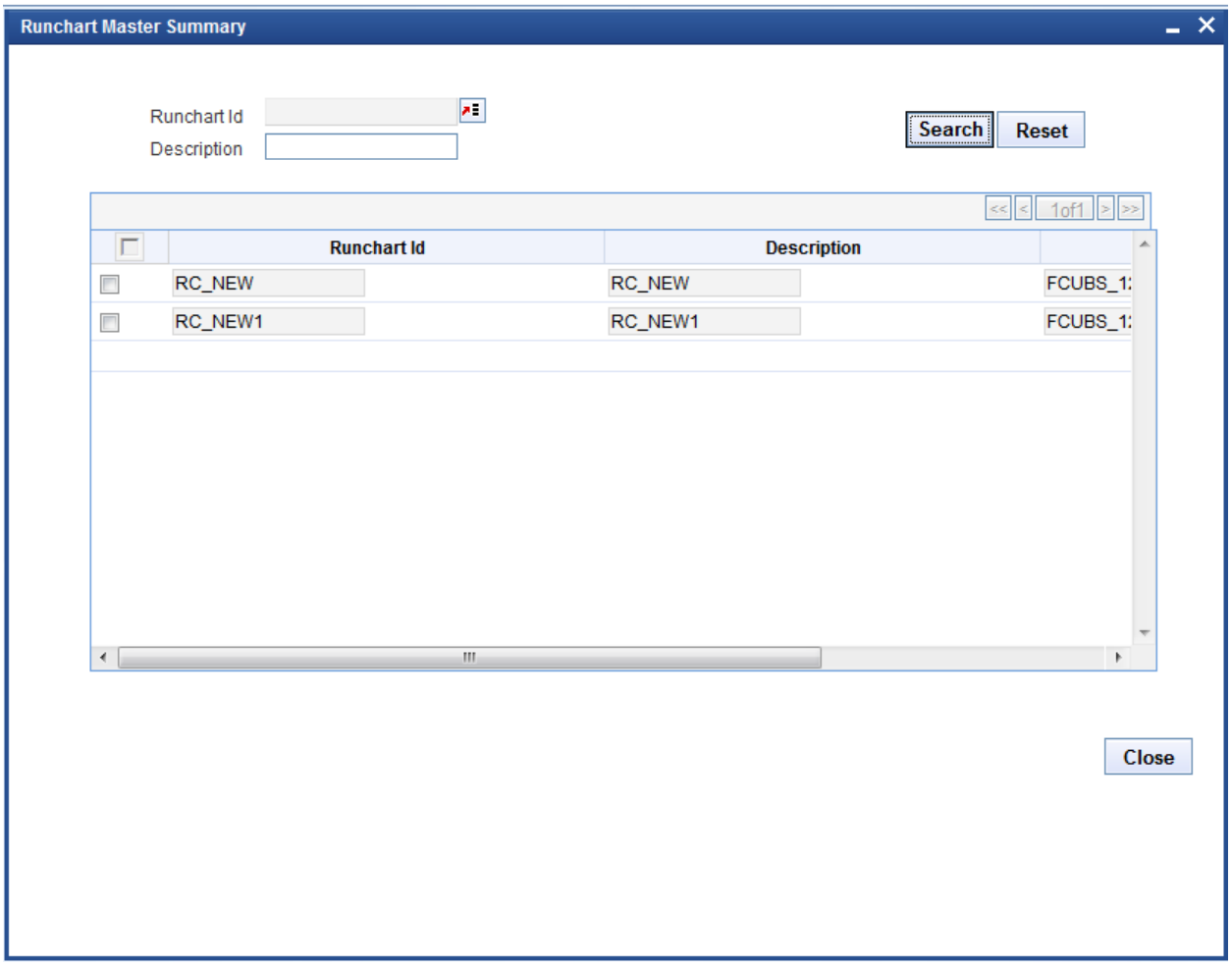


Fig 12.2: Run Chart Summary with list of Run Charts along with Description

12 Run Chart Execution

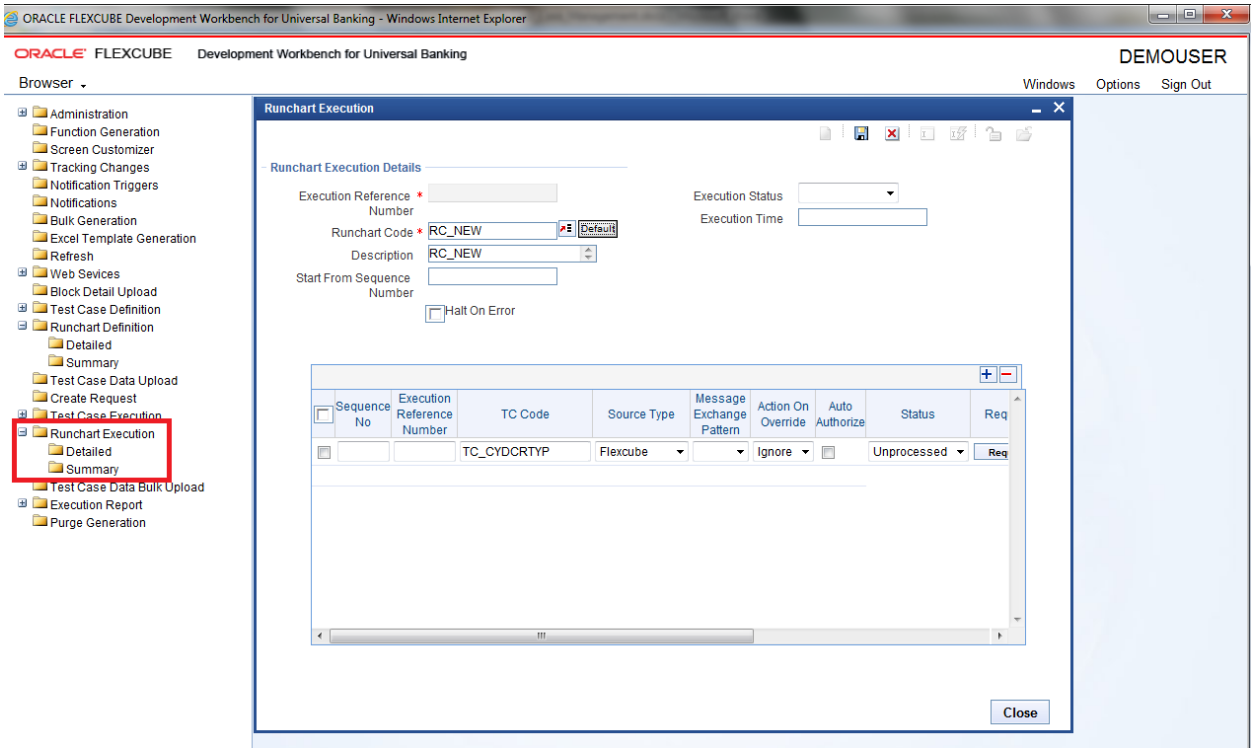


Fig 13.1: Run Chart Execution Screen

User can execute the Run Chart in this screen. If user doesn't want execute with auto auth, user can uncheck the check box.
Once Run Chart is executed user can see the status in the screen itself.
Request: User can check request which has been received by TCM
Response: User can check the TCM response for the request on clicking this command button. In this screen user can find the status of the execution of individual test case and the reason for failure.
Note:
User can generate around 20 test-cases at a time.
Tables: TCTB_RC_EXEC_MASTER, TCTB_TC_EXEC_MASTER,, TCTB_TC_CURR_DATA

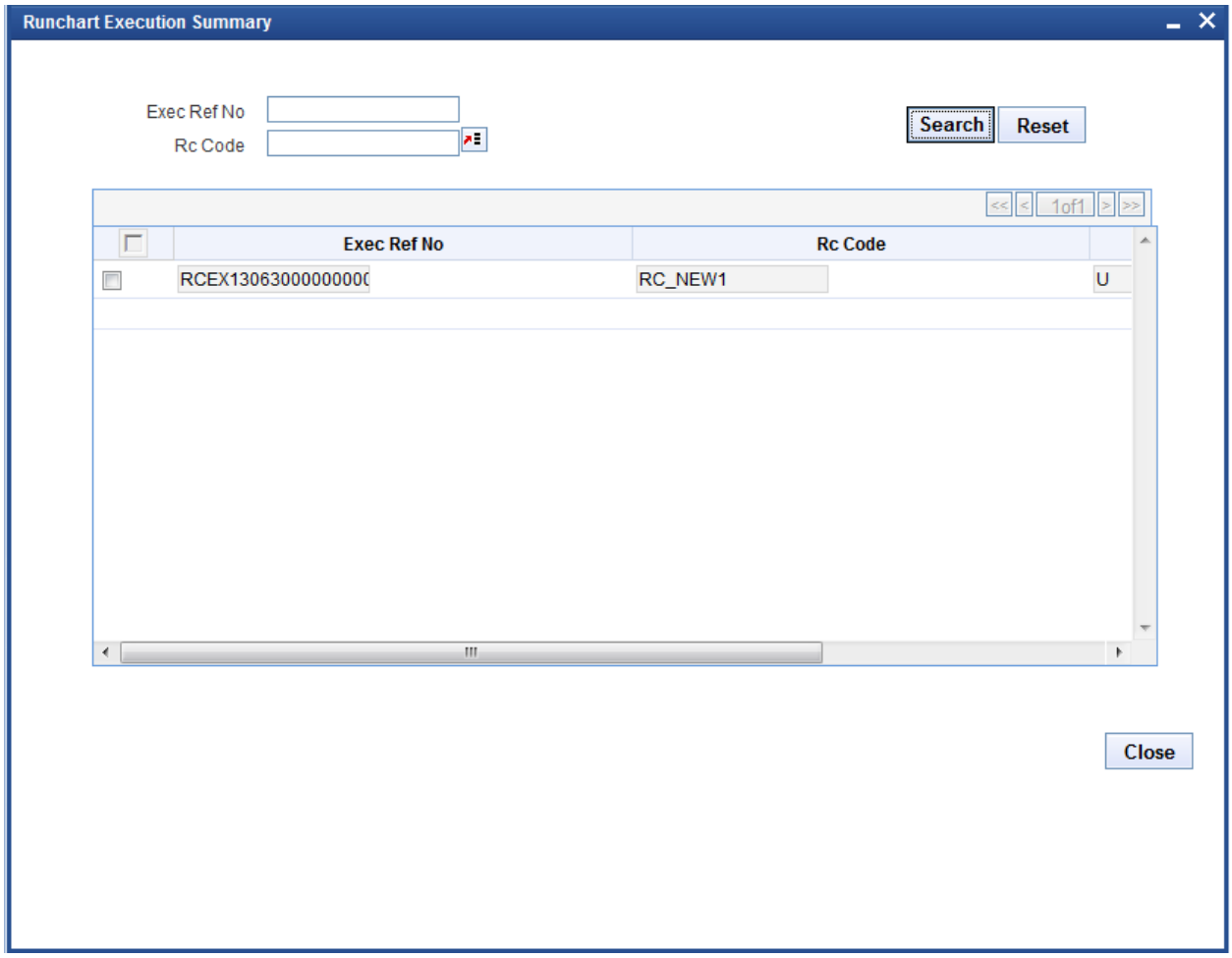


Fig 13.2: Run Chart Execution Summary

13 Derivation

When the input for a test case is dependent on the output of another test case, the application facilitates usage of derivation to link the input to the output of another test case. For example to make a Run Chart of Contract Execution & Liquidation, in liquidation test case we have to enter Contract number instead we can put the path as below mentioned.
D:TESTCASENAME:BLOCKNAME:FIELDNAME
Example:
D:TC_FXDTRONL_NEW_CONTRACT_FSC2:BLK_CONTRACT_MASTER:CONTREFNNO

14 Migration of Data using TCM Tool

Migration of data between releases is subject to the following conditions:

1. If a screen is non -extensible in Release 1 and gets converted to an extensible screen in Release 2, then migration of data from Release 1 to Release2 is not possible through the TCM tool.
2. If a non-extensible screen in Release 1 remains non-extensible in Release2, then migration of data through TCM Tool is possible.
3. If an extensible screen in Release 1 remains extensible in Release2, then migration of data through TCM Tool is possible.

The following are the steps to achieve the migration of data from Release1 to Release2:

1. Export the data using the export to excel functionality in FCUBS.
2. Create test cases in TCM (having Release1 sources) for the function id and upload the excel sheet.
3. Create Run Chart if required to sequence execution of the Test Cases.
4. Upload the new RADXMLs of Release 2 using the Block Detail Upload functionality.
5. Modify the test cases where there are changes in the field definition. During modification, the excel sheet would show the new fields with blank values. The TCM tool also provides a facility to make modification only for specific records/test cases.
6. Run the test case / run chart as appropriate. On execution, the modified data gets updated in the database.

If multiple releases is to be created in a single TCM schema, then data from the base release can be migrated to the child release during the creation of release.



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