

Cortell Australia Pty Ltd

CoreBIS

Testing Verification

29/02/2024



Revision History

Date	Version	Description	Author
27/02/2024	0.1	Create Document	Rodrigo Alvarez
28/02/2024	1.0	Release	Karl Blackler

Table of Contents

Revision History.....	2
1. Summary	4
2. Code Updates	5
2.1 CU200: Recurring text manual adjustments not working (Risk: L)	5
2.2 CU202: Remove additional columns from the Manual Table Adjustments screen (Risk: L)	8
2.3 CU217: Export to XML of ARS_110_0 fails for Final version (Risk: M).....	9
3. Enhancements to Existing Features	10
3.1 EF160: Create process to automatically archive data (Risk: M).....	10
3.2 EF165: Add a lookup assumption for the client name attribute (Risk: L).....	12
3.3 EF166: Review CFG file; ForceReevaluationOfFeedersForFedCellsOnDataChange=T (Risk: L)	13
3.4 EF169: Change Groups able to add/edit user email addresses from Admin to CoreSecurity (Risk: L)	14
3.5 EF170: Error handling if the SQL and dimensions are misaligned. (Risk: M).....	15
4. New Features	18
5. New Taxonomy	19

1. Summary

This document identifies what testing has occurred on each change in this Month's CoreBIS release.


2. Code Updates

2.1 CU200: Recurring text manual adjustments not working (Risk: L)

This update fixes an issue with the recurring option in the manual adjustments relating to text values. Sometimes, when a text adjustment was set as recurring, it was not copied to the next period. This problem has been fixed.

Test Goals: Validate that a recurring string adjustment is rolled as recurring in the following workflow period.

Test Method: We will create a string value(Currency) in the 117_OB_2 form for a given period.



APRA Entity

LEVEL2:CoreBIS No.1

INT DataSource

All INT_DataSource (n)

APRA Return Version


W_2021-09-30_Submission

ARF_117_OB_2: Repricing analysis - denominated in foreign currency_2

Effective date: 1 January 2013

Australian Business Number	Institution Name
12345678910	CoreBIS No.1
Reporting Period	Scale Factor
2021-09-30	Millions to one decimal place for banks Whole dollars no decimal place for other ADIs
Reporting Consolidation	
LEVEL2	
Currency	Description for composites of immaterial currencies

We will create a manual adjustment and select Yes as recurring.



MANUAL ADJUSTMENTS

Recalculate

Return to Datasource Drill

APRA Entity

LEVEL2:CoreBIS No.1

APRA Form Variant

ARF_117_OB_2

APRA Return Version

W_2021-09-30_Submission

APRA Attribute

CS15497

Data Type

APRA Table Attribute

Bulk Manual Adjustments

Recurring

Values from Data Sources

-

Description of Adjustment	Value	User	Timestamp	Recurring	Rolling Balance
Test 117_OB Adjustment	USD	Admin	27 FEB 2024 16:32	Yes	

Add Adjustment

Total Adjustments

-

TOTAL

-

The value is shown as follows:

ARF_117_0B_2: Repricing analysis - denominated in foreign currency_2

Effective date: 1 January 2013

Australian Business Number	Institution Name
12345678910	CoreBIS No.1
Reporting Period	Scale Factor
2021-09-30	Millions to one decimal place for banks Whole dollars no decimal place for other ADIs
Reporting Consolidation	
LEVEL2	
Currency	Description for composites of immaterial currencies
USD	

Now, we will check the next period, which is blank.

ARF_117_0B_2: Repricing analysis - denominated in foreign currency_2

Effective date: 1 January 2013

Australian Business Number	Institution Name
12345678910	CoreBIS No.1
Reporting Period	Scale Factor
2021-10-31	Millions to one decimal place for banks Whole dollars no decimal place for other ADIs
Reporting Consolidation	
LEVEL2	
Currency	Description for composites of immaterial currencies

First, we create the workflow from one period to the next.

Create New Workflow Version

Current Workflow Version: WF_2021-09-30_Submission

Select APRA Period: 2021-10-31

Submission Version: Submission

or type in:

Create Version

Manage Versions

Review Workflow

Data Selection

Generate Workflow Version

Select Workflow Version: WF_2021-10-31_Submission

This will create a new version: 'WF_2021-10-31_Submission' and copy all required data from: 'WF_2021-09-30_Submission', are you sure?

Cancel

Continue

Regenerate the workflow of the next period.

Generate Workflow Version

Select Workflow Version: WF_2021-10-31_Submission

This will make this Workflow Version active to the users, are you sure?

Cancel

Continue

Send Emails? Yes

And the recurrent attribute applies.

APRA Entity

LEVEL2:CoreBIS No.1

INT DataSource

All INT_DataSource (n)

APRA Return Version

W_2021-10-31_Submission

ARF_117_0B_2: Repricing analysis - denominated in foreign currency_2

Effective date: 1 January 2013

Australian Business Number	Institution Name
12345678910	CoreBIS No.1
Reporting Period	Scale Factor
2021-10-31	Millions to one decimal place for banks Whole dollars no decimal place for other ADIs
Reporting Consolidation	
LEVEL2	
Currency	Description for composites of immaterial currencies
USD	

Test Status: **Success**

Commercial – in Confidence

CoreBIS - Testing Verification - 2024_02_29.docx

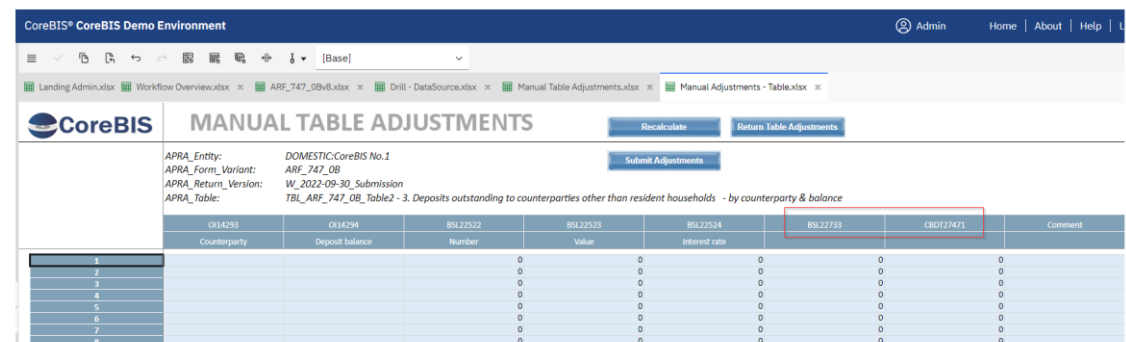
Page 7 of 19

2.2 CU202: Remove additional columns from the Manual Table Adjustments screen (Risk: L)

This update fixes an issue in the manual table adjustments. It was reported that when a table adjustment was selected, the table showed some system attributes not required for entry in the current table version. This issue has been fixed.

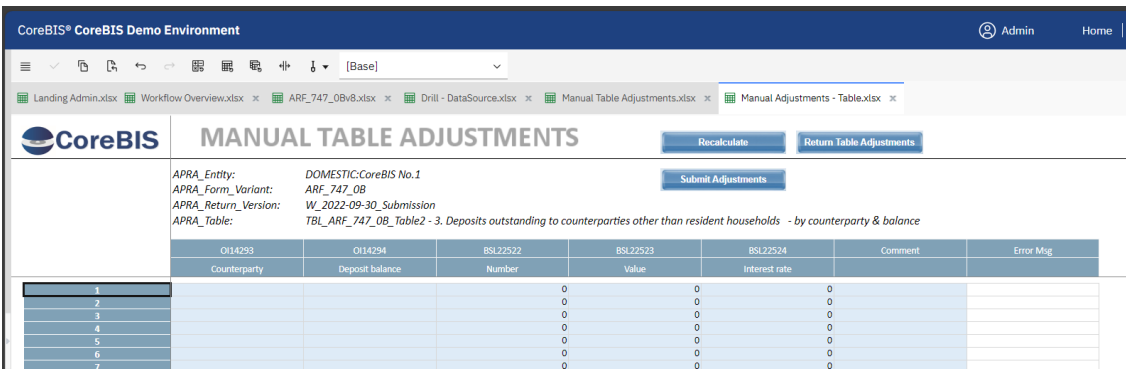
Test Goals: Open the Manual Table Adjustment screen in a form that uses tables and validate the appearance of other attributes against the current prod system. In this screen, we can see two attributes that don't have a description.

Test Method: Open the Manual Table Adjustment Screen for form 747 in prod (system with no changes).



	014293 Counterparty	014294 Deposit balance	BSL22522 Number	BSL22523 Value	BSL22524 Interest rate	BSL22733	BSL22747	Comment
1			0	0	0	0	0	0
2			0	0	0	0	0	0
3			0	0	0	0	0	0
4			0	0	0	0	0	0
5			0	0	0	0	0	0
6			0	0	0	0	0	0
7			0	0	0	0	0	0
8			0	0	0	0	0	0

Now, we will open the same screen in the test system with the change included. Those attributes do not appear.



	014293 Counterparty	014294 Deposit balance	BSL22522 Number	BSL22523 Value	BSL22524 Interest rate	Comment	Error Msg
1			0	0	0		
2			0	0	0		
3			0	0	0		
4			0	0	0		
5			0	0	0		
6			0	0	0		
7			0	0	0		


Test Status: Success

2.3 CU217: Export to XML of ARS_110_0 fails for Final version (Risk: M)

This update fixes an issue with the XML export of the ARS_110_0, in which the Final Version could not be exported, but the Working Version could.

Test Goals: Export an approved version of ARS 110

Test Method: Run an export of an APRA-ready version of ARS 110.

EXPORT TO XML

Recalculate

Return to Main Menu

APRA Entity: All APRA_Entity (n)

APRA Period: 2022-09-30

APRA Return: All APRA_Return (n)

Optional Selections:

APRA Form: ADI_CAPAD

APRA Return Version:

This will default to the Final version; 2022-09-30

Export

Export folder: E:\ibm\CoreBIS_tst\Export\

Check the export folder:

> Data (E) > ibm > CoreBIS_TST > Export

Name	Date modified	Type	Size
DEV_AC_2022-09-30_ARS 110.0 Capital Adequacy_ADI_CAPAD_ADI_CAPAD_1000_LEV...	2/28/2024 11:20 A...	XML Document	3 KB
DEV_AC_2022-09-30_ARS 110.0 Capital Adequacy_ADI_CAPAD_ADI_CAPAD_1000_LEV...	2/28/2024 11:20 A...	XML Document	3 KB

DEV_AC_2022-09-30_ARS 110.0 Capital Adequacy_ADI_CAPAD_ADI_CAPAD_1000_LEVEL1_2024FEB28_112018 - Notepad

File Edit Format View Help

<?xml version="1.0" encoding="UTF-8"?>
<!--Created using CoreBIS @ 2024-FEB-28, 11:20:18 -->
<ADI_CAPAD type="schema" versionNumber="1" guid="2d5daa8f-7e51-40c3-9c7b-de183e31ca73">
<ADI_CAPAD>
<ARS_110_0>
<ARS_110_0_x005F_x002E_01>
<ARS_110_0_x005F_x002E_01_x0020_Repeat_x0020_Group>
<CommonEquityTier1CapitalAmount>
<value>1268113000</value>
</CommonEquityTier1CapitalAmount>
<CommonEquityTier1CapitalType>
<value>CurrentYearEarningsExcludingUpfrontFeeIncome</value>
</CommonEquityTier1CapitalType>
</ARS_110_0_x005F_x002E_01_x0020_Repeat_x0020_Group>
<ARS_110_0_x005F_x002E_01_x0020_Repeat_x0020_Group>

Test Status: Success

3. Enhancements to Existing Features

3.1 EF160: Create process to automatically archive data (Risk: M)

We have added an enhancement to the archiving process, so that the system can automatically archive data over a certain period of time. This feature will run each morning. Should a user reload archived data, a new archive flag will stop that data from being re-archived.

Test Goals: Test the auto archive functionality and validate that the files got archived correctly.

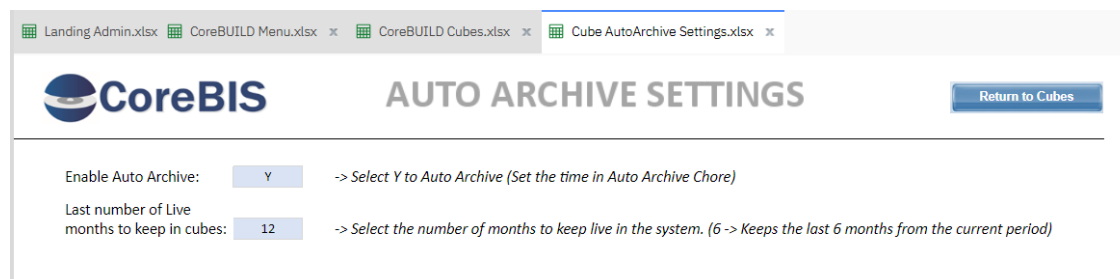
Test Method:

First, we will check some cubes to see if we have periods to archive.

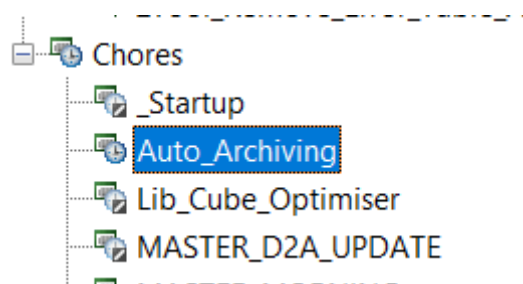
Open the new AutoArchive Settings.



Ensure Y is selected, and we will choose 12 live months.



We will run the Autoarchive chore.



Meanwhile, it is archiving we can check the folder with the archived components zip folders.

Name	Date modified	Type	Size
BASE_General_Ledger_Daily_2020-09-06...	2/28/2024 9:30 AM	Compressed (zipp...	17 KB
BASE_General_Ledger_Daily_2020-09-06...	2/28/2024 9:30 AM	Text Document	624 KB
BASE_General_Ledger_Daily_2020-09-05...	2/28/2024 9:30 AM	Compressed (zipp...	17 KB
BASE_General_Ledger_Daily_2020-09-04...	2/28/2024 9:30 AM	Compressed (zipp...	17 KB
BASE_General_Ledger_Daily_2020-09-03...	2/28/2024 9:30 AM	Compressed (zipp...	17 KB
BASE_General_Ledger_Daily_2020-09-02...	2/28/2024 9:30 AM	Compressed (zipp...	17 KB
BASE_General_Ledger_Daily_2020-09-01...	2/28/2024 9:29 AM	Compressed (zipp...	17 KB

We can check how many have been archived.

BASE_General_Ledger_Daily_Load_Date	Used by Tagging	Action	Archived	Reporting Period	Transaction Count	Transaction Amount
2020-09-03	1			2020-09-03	1,774	-0
2020-09-03 02:00:46	1		Y	2020-09-03	1,774	-0
2020-09-04	1			2020-09-04	1,774	-0
2020-09-04 02:00:45	1		Y	2020-09-04	1,774	-0
2020-09-05	1			2020-09-05	1,774	-0
2020-09-05 02:00:45	1		Y	2020-09-05	1,774	-0
2020-09-06	1			2020-09-06	1,774	-0
2020-09-06 02:00:42	1		Y	2020-09-06	1,774	-0
2020-09-07	1			2020-09-07	1,774	-0
2020-09-07 02:00:45	1		Y	2020-09-07	1,774	-0
2020-09-08	1			2020-09-08	1,774	-0
2020-09-08 02:00:45	1		Y	2020-09-08	1,774	-0
2020-09-09	1			2020-09-09	1,774	-0
2020-09-09 02:00:45	1		Y	2020-09-09	1,774	-0
2020-09-10	1					

The auto archive system works in batches of 10 runs with no more than five load dates in three hours at 2:15 am, preventing a massive auto-archiving situation that can affect the performance of CoreBIS in Business Hours.

Test Status: Success

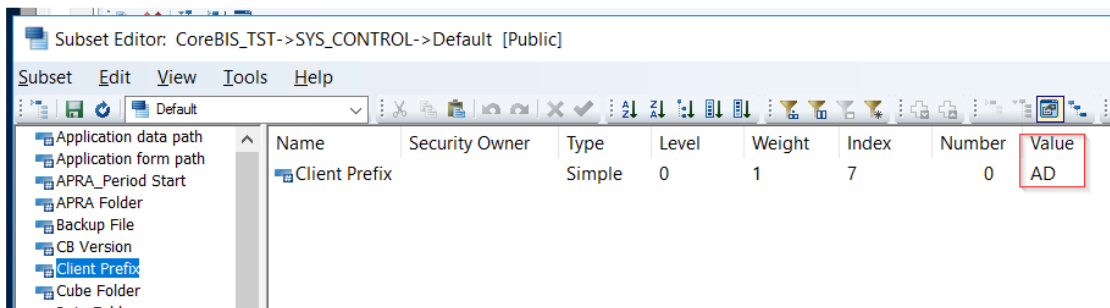
3.2 EF165: Add a lookup assumption for the client name attribute (Risk: L)

This fix created a new parameter in the system that makes client attribute rules generic. The Caption_Default alias will be changed to display the user's name without the active directory prefix.

Test Goals: Open the Client dimension and check the Caption_Default alias in both systems before and after.

Test Method:

First, we must check that the Client Prefix parameter was created and the prefix is set.

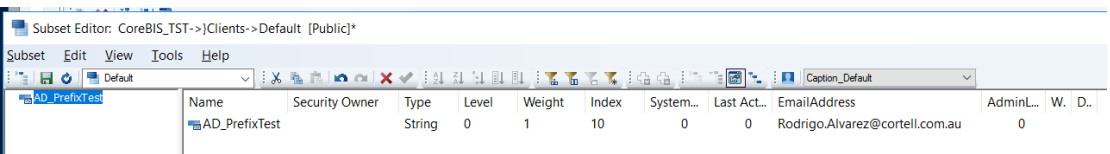


Subset Editor: CoreBIS_TST->SYS_CONTROL->Default [Public]

Name	Security Owner	Type	Level	Weight	Index	Number	Value
Client Prefix		Simple	0	1	7	0	AD

Now check that the Caption Default appears without the client prefix.

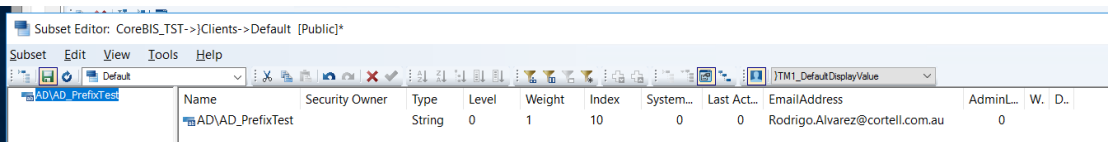
Caption_Default



Subset Editor: CoreBIS_TST->Clients->Default [Public]*

Name	Security Owner	Type	Level	Weight	Index	System...	Last Act...	EmailAddress	AdminL...	W.	D.
AD_PrefixTest		String	0	1	10	0	0	Rodrigo.Alvarez@cortell.com.au	0		

TM1_DefaultDisplayValue



Subset Editor: CoreBIS_TST->Default [Public]*

Name	Security Owner	Type	Level	Weight	Index	System...	Last Act...	EmailAddress	AdminL...	W.	D.
AD\AD_PrefixTest		String	0	1	10	0	0	Rodrigo.Alvarez@cortell.com.au	0		

Test Status: Success

3.3 EF166: Review CFG file;

ForceReevaluationOfFeedersForFedCellsOnDataChange=T (Risk: L)

This revaluation parameter in the CoreBIS core calculation engine was reviewed to seek a performance gain in the application's processing or upload times. The parameter will remain set as is.

Test Goals: An internal check was performed by the Cortell team, and based on the results, which didn't impact the performance, we decided to keep the parameter as is. So, no changes to the system were applied.

Test Method: N/A

Test Status: **Success**

3.4

Members of the CoreSecurity security group can now change users' emails.

Test Goals: A CoreSecurity group member user with no admin access should be able to change users' emails.

Test Method: Set up a user with only proper access and a CoreSecurity membership. Refresh Security.

Rodrigo Alvarez	All Users
	CoreSecurity
	Grp_Rodrigo Alvarez

Log in with this user and change an email:

CoreBIS® CoreBIS Demo Environment

[Base]

Landing Admin.xlsx CoreBUILD Menu.xlsx Security Menu.xlsx Security Users.xlsx

CoreBIS SECURITY - USERS

[Return to Security Menu](#)

New User Name:

[Add User](#)

[Remove User](#)

User Name	Display Name	Email Address
Admin	Admin	Karl.Blackler@cortell.com.au
Karl Blackler	Karl Blackler	Karl.Blackler@cortell.com.au
Adam	Adam Hopper	Karl.Blackler@cortell.com.au
Ben	Ben Brown	Karl.Blackler@cortell.com.au
Chris	Chris Smith	Karl.Blackler@cortell.com.au
Tania	Tania	Karl.Blackler@cortell.com.au
Bree	Bree	Karl.Blackler@cortell.com.au
Rodrigo Alvarez	Rodrigo Alvarez	MY EMAIL
Dean	Dean Stewart	Karl.Blackler@cortell.com.au
AD_PrefixTest	AD\AD_PrefixTest	Rodrigo.Alvarez@cortell.com.au

Test Status: Success

3.5 EF170: Error handling if the SQL and dimensions are misaligned. (Risk: M)

When loading BASE cube data into the system, the SQL query or File can be misaligned with the cube dimensions. This can occur when a user adds a new dimension to an existing cube or imports a text file that does not align with the cube dimension list.

When the cube is set to load new dimension elements automatically, this can create new elements in dimensions that shouldn't.

This enhancement will stop this from occurring should the "Value" be blank or 0. The user will receive an email if all values are blank or 0 in a load.

Test Goals: Show a case where the number of fields is larger in CoreBIS than in the SQL(adding one or more dimensions). Show how the system solves the problem.

Test Method:

The financial difficulty field was removed from the SQL. This example will help us assume that the field was added to the cube, but the query was not updated.

ODBC

ODBC_DSN Source: DWH

Preview / Load Cube

SQL Statement:

```
SELECT
    '?pPeriod?' as Reporting_Period
    , '12345678999' as Entity
    , [Account Number]
    , [Branch Number]
    , [Loan Type]
    , [Product]
    , [Fixed Or Variable]
    , [FHOG]
    , [Purpose Description]
    , [Secured]
    , [LMI]
    , [LVR RANGE]
    , [Residency]
    , [DaysinArrears]
    , [LoanIncome]
    , [LoanVintage]
    , [Measure]
    , [Value]
FROM [DWH].[dbo].[BASE_ResidentialMortgage]
```

Note: the SQL has to be in the exact format of the Datasource you are loading, excluding the load date and can use the parameter ?pPeriod?

As a result of the missing field, the value is blank.

Landing Admin.xlsxCoreBUILD Menu.xlsxCoreBUILD Cubes.xlsxCube Load PREVIEW.xlxCube Load ODBC.xlsx

Financial_Diffi culty	RM_Customer_Res idency	RM_ArrearsDays	RM_LoanIncomeRa tio	RM_LoanVintageYr s	BASE_Residential Mortgages_Measur	VALUE	
13	14	15	16	17	18	19	20
0		1.0-1.5	0 mths	LoanCount	1		
0		2.5-3.0	0 mths	LoanCount	1		
0		1.5-2.0	0 mths	LoanCount	1		
0		6.0-6.5	0 mths	LoanCount	1		
0		1.0-1.5	0 mths	LoanCount	1		
0-29		1.0-1.5	0 mths	LoanCount	1		
0		4.0-4.5	0 mths	LoanCount	1		
0		1.5-2.0	0 mths	LoanCount	1		
0		2.5-3.0	0 mths	LoanCount	1		
0		1.5-2.0	0 mths	LoanCount	1		

Now, we will load the data by pressing the Load button. We added the option of Load dimensions with data load.



Select Cube: BASE_Residential_Mortgages

Clear Preview

Load Data

Process Logs

Select APRA Period: 2022-12-31

Run Preview

☒ Load Dimensions with Data Load
☐ Run in Background

Export Data

We will receive a message:

Run Preview

☒ Load Dimensions with Data Load
☐ Run in Background

RM_Branch	RM_Loan_Type	RM_Product	RM_Fixed_Variable	RM_First_Home_G	RM_Purpose
4					9
218	4200				Land Purchase
218	4300				Owner Occupied H
211	4300				Owner Occupied H
218	4300				Refinance - Housin
204	4200				Owner Occupied H
204	4200	Standard Housing	Variable	N	Debt Consolidation
218	4200	Fixed Principal and I	Fixed	N	Owner Occupied H
218	4200	Variable Interest Onl	Variable	N	Land Purchase
218	4300	Secured	Variable	N	Owner Occupied H
205	4200	Variable Interest Onl	Variable	N	Owner Occupied H

There was an issue with the load.

And an email will arrive:

testemail - Notepad

File Edit Format View Help

```
"CMD /C powershell E:\ibm\CoreBIS_tst\Scripts\sendPSEmail.ps1 -EmailFrom karl.blackler@cortell.com.au -EmailTo Karl.Blackler@cortell.com.au -
Username karl.blackler@cortell.com.au -Subject '"Automated CoreBIS Email: An issue with BASE_Residential Mortgages has been detected.'" -EmailBody
"Hi Admin, <BR>Your execution of BASE_Residential Mortgages only returned blanks in the "Value" field. Please review that the Data Source is still
valid. No data or new elements have been loaded"' -SMTPServer smtp.office365.com"
```

No Base Load date was created 2024-?-??:

BASE_Residential_Mortgages_Load_Date	Used by Tagging	Action	Archived
All BASE_Residential_Mortgages_Load_Date (n)	4		
2018-12-20	2		
2018-12-20 14:00:32	2		
2019-06-21	0		
2019-06-21 15:33:46	0		
2019-07-25	0		
2019-07-25 15:40:54	0		
2019-07-26	0		
2019-07-26 14:25:42	0		
2020-08-06	1		
2020-08-06 09:20:11	1		
2020-08-13			
2020-08-13 10:25:23			
2021-06-10			
2021-06-10 13:18:21			
2023-05-05			
2023-05-05 09:30:55			
2023-06-30	1		
2023-06-30 16:25:00	1		

Now, we will fix the SQL to what it was before (in a real scenario, we add the field after adding a dimension).

Commercial – in Confidence

CoreBIS - Testing Verification - 2024_02_29.docx

The data was back in sync:

Landing Admin.xlsxCoreBUILD Menu.xlsxCoreBUILD Cubes.xlsxCube Load PREVIEW.xlsxCube Load ODBC.xlxC

Diffi	RM_Customer_Res idency	RM_ArrearsDays	RM_LoanIncomeRa tio	RM_LoanVintageYr s	BASE_Residential_ Mortgages_Measur	VALUE		
	14	15	16	17	18	19	20	21
	AU	0	1.0-1.5	0 mths	LoanCount	1		
	AU	0	2.5-3.0	0 mths	LoanCount	1		
	AU	0	1.5-2.0	0 mths	LoanCount	1		
	AU	0	6.0-6.5	0 mths	LoanCount	1		
	AU	0	1.0-1.5	0 mths	LoanCount	1		
	AU	0-29	1.0-1.5	0 mths	LoanCount	1		
	AU	0	4.0-4.5	0 mths	LoanCount	1		
	AU	0	1.5-2.0	0 mths	LoanCount	1		
	AU	0	2.5-3.0	0 mths	LoanCount	1		
	AU	0	1.5-2.0	0 mths	LoanCount	1		

The Data has a "loaded" message.

RM_Loan_Type	RM_Product	RM_Fixed_Variable	RM_First_Home_G
Standard Housing	Variable	N	
Standard Housing	Variable	N	

Data was loaded successfully.

CoreBIS

BASE LOAD DATA

Recalculate

Return to Cubes

Base Cube

BASE_Residential_Mortgages

Check Dates Used

Apply Action

BASE_Residential_Mortgages_Load_Date	Used by Tagging	Action	Archived
All BASE_Residential_Mortgages_Load_Date (n)	4		
2018-12-20	2		
2018-12-20 14:00:32	2		
2019-06-21	0		
2019-06-21 15:33:46	0		
2019-07-25	0		
2019-07-25 15:40:54	0		
2019-07-26	0		
2019-07-26 14:25:42	0		
2020-08-06	1		
2020-08-06 09:20:11	1		
2020-08-13			
2020-08-13 10:25:23			
2021-06-10			
2021-06-10 13:18:21			
2023-05-05			
2023-05-05 09:30:55			
2023-06-30	1		
2023-06-30 16:25:00	1		
2024-02-27			
2024-02-27 14:47:19			

Reporting Period	Transaction Count	Transaction Amount
2018-12-31	48,724	7,271,765,102
2019-01-31	428,204	905,904,999,512
2019-01-31 (Virtual)		
2019-09-30	428,204	905,904,999,512
2019-09-30	428,204	905,904,999,512
2020-08-31	428,204	905,904,999,512
2022-09-30	428,204	905,904,999,512
2022-09-30	61,172	129,414,999,930
2022-12-31	61,172	129,414,999,930

Test Status: **Success**

Commercial – in Confidence

CoreBIS - Testing Verification - 2024_02_29.docx

4. New Features

There are no new feature changes this month.

5. New Taxonomy

There are no taxonomy changes this month.