Purge Entity Definition Oracle FLEXCUBE Universal Banking Release 14.5.1.0.0 Part No. F45406-01 [June] [2021]



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1. Preface

This document explains the method to configure purge entities and to apply purge filters and discusses the process of purge generation in Oracle FLEXCUBE Development Workbench

1.1 Audience

This document is intended for FLEXCUBE Application developers/users that use Development 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
FLEXCUBE Technical Architecture	Financial Software Services. Training programs from Oracle
	Financial Software Services.
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL & SQL Language	Self Acquired
Working knowledge of XML files	Self Acquired

1.2 Related Documents

<u>03-Development_WorkBench_Getting_Started.docx</u>

2. Introduction

2.1 How to use this Guide

The information in this document includes:

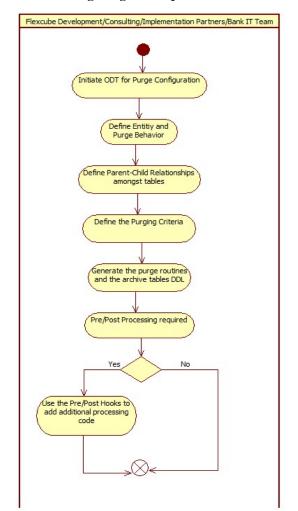
- <u>Chapter 2 , "Introduction"</u>
- Chapter 3 , "Overview of Purge Entity"
- <u>Chapter 4</u>, "Purge Entity Definition"
- <u>Chapter 5 , "Generated Units"</u>
- <u>Chapter 5 , "Extensible Development"</u>

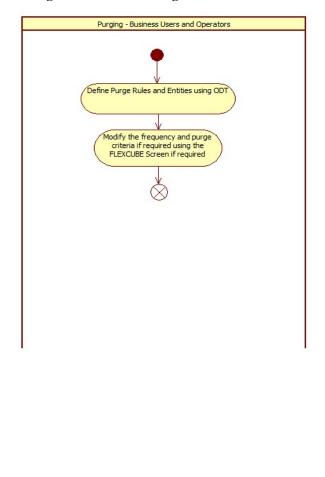
3. Overview of Purge Entity

New Purge Framework is introduced in FLEXCUBE where user can configure the data to be purged.

This framework consists of two parts - – Purge Parameter Configuration and Purge Execution.

The following diagram captures the framework of Purge Parameter Configuration





Workbench will be used for defining the list of entities to be purged. Persistence of Purge Entity Configured is achieved through the RADXML saved by the Tool.

3.1 Purge Parameters Configuration

For the initial purge parameter configuration, ODT utility for generating the Purge routines is to be used. The tool will be used to generate the packages that will have the purge logic based on the criteria. The tool will be used for the following –

- 1. Maintaining the list of entities that need to be purged. This includes maintaining the Master-Child relationship between the tables. Each entity will have the following
 - a. Parent table
 - b. Primary key for the parent table and the data-types of the key fields
 - c. List of child tables
 - d. Relation with the parent tables and the data-types of the key fields
- 2. Maintaining the purge behavior whether the data is to be deleted or archived
- 3. Maintaining the mode of purge whether it is bulk or record level
- 4. Maintaining the archive table suffix if the purge behavior is to archive the data
- 5. Maintaining the filter criteria to determine what data to purge. These filter criteria will be applied on the parent table to identify the data to purge and based on the setup, corresponding data will be purged from the child tables also.

4. Purge Entity Definition

Login to FLEXCUBE Workbench by providing your user credentials. Click on Purge Generation from the browser tree as shown in the figure



Specify the following details:

Action

Specify whether you need to create a new record or load modify an existing record.

Save XML Path

Specify the location of the RAD XML file.

Entity name

Specify the name of the entity.

Module Name

Specify the name of the module to which the entity belongs.

Entity ID

ODT defaults the entity ID. Entity ID name is derived as <Module_Name>P<Entityname> Example: FTPCONTRACT

	ment Workbench for Univ	ersal Banking						User
Browser -					Windows	Options	Sig	
Purge Generation							< 72	- -
Action New - Save XML Path BCDTRONL_R	AD.xml	Entity Name CONTRACT Module Name BC	×1	Entity Id BCPCONTRACT				
Purge Master Purge Tables Purge Filters	Preferences Entity Description Purge Type Purge Mode Purge Frequency Archive Table Suffix	Purging Contract_Delete						

On the left menu, you can find the following options:

- o Purge Master
- o Purge Tables
- o Purge Filters

4.1 Purge Master

You can define the purge preferences for the entity from 'Purge Master' menu item. Click 'Purge Master' on the left menu.

Preferences			9
Entity Description Purge Type Purge Mode Purge Frequency Archive Table Suffix	Purging Contract_Delete Archive Entity Daily ARCH	2	

Specify the following details:

Entity Description

Specify a brief description of the entity that you are defining.

Purge Type

Specify the purge type. The following options are available in the drop-down list:

Delete - if you select this, the data will be deleted from the main tables

Archive – if you select this, the data will be saved in the archive tables and deleted from the main tables

Purge Mode

Specify the mode of purge. You can select one of the following options:

Entity - if you select this, purge happens based on the entity or record

Bulk - if you select this, purge happens in bulk for many records

Purge Frequency

Specify the frequency at which the purge should happen. You can select one of the following options:

Ad-hoc Daily Weekly Monthly Quarterly Yearly

Archive Table Suffix

Specify the text that should suffix the main table name during archive purge operation. If you select the purge type as 'Archive', you need to specify this.

For example, if the name of the main table is 'MAIN_TABLE' and you have specified the archive table suffix as 'HIST', then after the purge, the name of the archive table will be 'MAIN_TABLE_HIST'.

4.2 Purge Tables

You can maintain the underlying tables for a particular entity using Purge Tables. Click 'Purge Tables' on the left menu.

Action Load Ac	AD.xml BROWSE M	Entity Name CNTRC Iodule Name LC	T	Entity Id LCPCNTRCT	
Purge Master Purge Tables Purge Filters	Purge Table Details				ېنا ب
	Purge Table Details				Details 🕂 ·
	Table Name	Master	Parent	Relation With Parent	Key Fields
	CSTB_CONTRACT	≠≣ p 🔽	•		CONTRACT_REF_NO
	LCTB_AVAILMENTS	🗾 Р 🗌	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	EVENT_SEQ_NO~CON
	LCTB_CLAUSES	≠≣ p	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	CLAUSE_CODE~DOC_
	LCTB_COLLATERAL	📲 Р 🗆	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	EVENT_SEQ_NO~CON
	LCTB_COMMISSION_DETAILS	≠≣ p	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	COMPONENT~LAST_E
	LCTB_COMMISSION_MASTER	×≣ р 🗆	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	COMPONENT~CONTR
	LCTB_CONTRACT_MASTER	и р	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	EVENT_SEQ_NO~CON
	LCTB_DOCUMENTS	лі р	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	DOC_CODE~EVENT_S
	LCTB_DRAFTS	и р	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	EVENT_SEQ_NO~CON
	LCTB_FFTS	≠≣ p	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	MESG_TYPE~EVENT_S
	LCTB_GOODS	₽≣ P	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	EVENT_SEQ_NO~CON
	LCTB_MEMO_ACCRUALS	≠≣ p 🗌	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	COMPONENT~CONTR
	LCTB_OTHER_ADDRESSES	📲 Р 🗌	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	PARTY_TYPE~EVENT_
	LCTB_PARTIES	≠≣ p	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	PARTY_TYPE~EVENT_
	LCTB_SHIPMENT	📲 Р 🗆	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	EVENT_SEQ_NO~CON
	LCTB_TRACERS	AI D	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	TRACER_CODE~EVEN
	CSTB_TEMPLATE	и р	CSTB_CONTRACT -	CSTB_CONTRACT.CONTRACT_REF	TEMPLATE_ID

Specify the following details:

Table Name

Specify the name of the table.

Master

Check this box to indicate that the selected table is the master table.

Parent

If the selected table is not the parent table, then you need to specify the master table name here.

Relation with Parent

Specify the relation of the selected table with the parent table.

Key Fields

Specify the key field name. You can populate the key fields by clicking the 'P' button adjoining the table name.

Key Fields Data Type

Specify the key field data type. You can populate the key field name and data type by clicking the 'P' button adjoining the table name.

Archiving Not Required

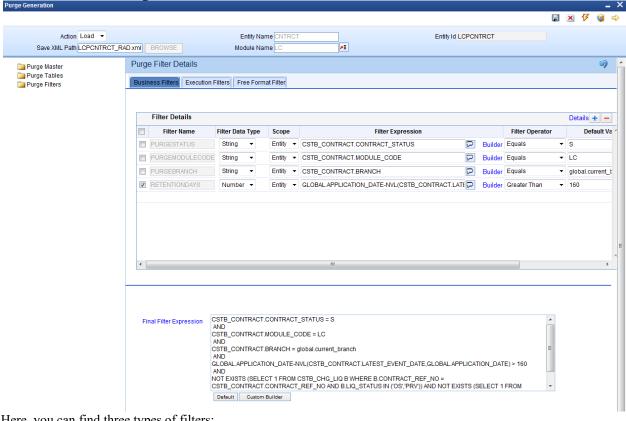
In purge mode 'Archive', you can exclude specific tables from archiving. Check this box against the tables that you need to exclude from archiving.

Exclude from Purging

You can exclude selected tables from purging. Check this box against the tables that you need to exclude from purging.

Purge Filters 4.3

You can define the purge filter criteria and define the predicates to be used to filter the data for purging from 'Purge Filters' section. Click 'Purge Filters' on the left menu.



Here, you can find three types of filters:

Business Filter Execution Filter Free Format Filter

4.3.1 Business Filter

This filter is governed by the business needs or the regulatory environment. If you need to define a business filter, click 'Business Filters' tab.

Action Load -				me CNTRC	Entity Id	LCPCN	NTRCT			
Save XML Path LCPCNTRCT_R		Modu	ile Nar	neLC	<u>/=</u>					
Purge Master	Purge Filter Details									ý
Purge Tables Purge Filters	Business Filters Execution F	Filters Free	Form	at Filter						
	Filter Details									Details + -
	Filter Name	Filter Data T	Гуре	Scope	Filter Expression			Filter Operato		Default
	PURGESTATUS	String	•	Entity •	 CSTB_CONTRACT.CONTRACT_STATUS 	\triangleright	Builder	Equals	•	s
	PURGEMODULECODE	String	•	Entity •	CSTB_CONTRACT.MODULE_CODE	2	Builder	Equals	•	LC
	PURGEBRANCH	String	•	Entity •	CSTB_CONTRACT.BRANCH	\sim	Builder	Equals	•	global.current
	RETENTIONDAYS	Number	•	Entity •	GLOBALAPPLICATION_DATE-NVL(CSTB_CONTRACT.L	ATE 🔽	Builder	Greater Than	•	160
	RETENTIONDAYS	Number	•	Entity	GLOBALAPPLICATION_DATE-NVL(CSTB_CONTRACT.L	ATE 🔽	Builder	Greater Than	T	160
	RETENTIONDAYS	Number	•	Entity	GLOBALAPPLICATION_DATE-NVL(CSTB_CONTRACT.L	ATE	Builder	Greater Than	-	160
		Number	•	Entity		ATE	Builder	Greater Than	-	160
		Number	•	Entity		ATE	Builder	Greater Than	-	160
		Number	•	Entity		ATE	Builder	Greater Than	•	160
	· .					ATE	Builder	Greater Than		160
	Final Filter Expression	SSTB_CONTF	RACT.0	CONTRAC	IT_STATUS = S	ATE	Builder			160
	Final Filter Expression	SSTB_CONTF AND SSTB_CONTF	RACT.0	CONTRAC	T_STATUS = S CODE = LC	ATE	Builder			160
	Final Filter Expression	STB_CONTF AND STB_CONTF AND STB_CONTF AND	RACT. RACT.I	CONTRAC MODULE_	T_STATUS = S CODE = LC : global current_branch					160
	Final Filter Expression	STB_CONTF AND SSTB_CONTF AND SSTB_CONTF AND SLOBALAPPI	RACT.(RACT.I RACT.I	CONTRAC MODULE_ BRANCH = ON_DATE-	T_STATUS = S CODE = LC					160

Specify the following details:

Filter Name

Specify a filter name. The filter name should be unique across business and execution filters for an entity.

Filter Data Type

Specify the filter data type. You can select one of the following options:

Date

String

Number

Scope

Specify the scope, whether entity or table. If scope is table, then the filter would be applied over the filter expression table and its child tables. If it is entity, filter is applied over the entire entity; hence if the expression returns false entire entity will be skipped.

Filter Expression

Specify the filter expression. You can use the Builder button to build a filter expression using the builder screen.

Filter Operator

Specify the filter operator. You can select the appropriate one from the drop-down list.

Default Value

Specify the value that satisfies the expression. If the operator expects more than one value, then each value can be separated by tilde.

This is an optional field.

Maximum Length

Specify the maximum length of the filter value that can be used.

Final Filter Expression

The Development Workbench system concatenates each filter and the operators to derive the final expression. This is a display only field.

4.3.2 Execution Filter

This filter is an operational filter that provides an additional predicate while doing an ad-hoc purge for an entity. During ad-hoc purge, you can use the execution filter in order to get flexibility in purging selective data for an entity.

If you need to define an execution filter, click 'Execution Filters' tab.

Filter Details					Details	s 🕂 🗕
Filter Name	Filter Data Type	Scope	Filter Expression		Filter Operator	Defa
		Entity 👻				
		Entity 👻		Builder		
	▼	Entity 👻		Builder	▼	
		m				•
		11				4

For details on each field, refer to the section 'Business Filters' in this chapter.

4.3.3 Free Format Filter

This contains predefined filter conditions. You cannot modify these.

eneration						-
			F	×	¥	9
Action Load	AD.xml BROWSE	Entity Name CNTRCT Entity Id LCPCNTRCT Module Name C				
Purge Master	Purge Filter Details					9
Purge Tables Purge Filters	Business Filters Executio	n Filters Free Format Filter				
	Free Format Filter	NOT EXISTS (SELECT 1 FROM CSTB_CHG_LIQ B WHERE B.CONTRACT_REF_NO = CSTB_CONTRACT.CONTRACT_REF_NO AND B LIQ_STATUS IN (OS', PRV)) AND NOT EXISTS (SELECT 1 FROM CSTB_CHG_LIQ B WHERE B.CONTRACT_REF_NO = CSTB_CONTRACT.CONTRACT_REF_NO AND NVL (BLIQ_AUTH_STATUS, 'U') = 'U')	*			
	Final Filter Expression	CSTB_CONTRACT.CONTRACT_STATUS = S AND CSTB_CONTRACT.MODULE_CODE = LC AND CSTB_CONTRACT.BRANCH = global.current_branch AND GLOBAL.APPLICATION_DATE-IVUL(CSTB_CONTRACT_LATEST_EVENT_DATE,GLOBAL.APPLICATION_DATE) > 160 AND NOT EXISTS (SELECT 1 FROM CSTB_CHG_LLQ B WHERE B.CONTRACT_REF_NO = CSTB_CONTRACT_REF_NO AND B.LIQ.STATUS IN (OS; "RAVI) AND NOT EXISTS (SELECT 1 FROM	A E			

<u>A Sample Filter and its constituent fields in Filter Definition</u> GLOBAL.APPLICATION_DATE- CSTB_CONTRACT.BOOK_DATE > 120

- Filter Name: RETENTION
- RHS Expression:
- GLOBAL.APPLICATION_DATE- CSTB_CONTRACT.BOOK_DATE
- Operator: Greater Than
- o Default Value: 120
- Filter Data Type: NUMBER
- Maximum Length: 5

Final Filter Expression is derived by concatenating each filters by AND operator.

5. Generated Files

1) Main Package

This package will have the capability of either purging/archiving the data based on the criteria that has been configured.

Record keys of the data to be purged will be inserted into a staging table. Multiple threads will be accessing the staging table to purge the data from table. Once purged, data from staging table would be removed.

2) Hook Packages

- Post Hook after deriving filter values
- Pre and Post hooks at the purge program level
- Pre and Post hooks at the record level
- 3) Static Scripts

Scripts for the following tables will be generated.

- STTM_PURGE_MASTER
- STTM_PURGE_TBL_DETAILS
- STTM_PURGE_FILTER_DETAILS

4) Archival table Definitions

DDL for all archival tables would be generated

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e Generation						Windows	Options Sign O
erate							
erate	· · · · · · · · · · · · · · · · · · ·						
Front-End	Files System Packages	Hook Packages		Meta Data		Othe	rs
RadXML Screen Xml System JS	Main Package Body Motification Triggers Upload Package Spec Upload Package Body	Kernel Package Spec Kernel Package Body Cluster Package Spec Cluster Package Body Custom Package Spec Custom Package Body	Menu Details Datasource Details LOV Details Block Details Screen Details Amendable Details Call form Details Summary Details	Gatev Notifi	PK Columns ion Call Forms way Details cation Details ion Parameters	Xsds Xsd With Annot Screen Html Upload Table Upload Tables Archive Table D	rigger Definition
SI.No	File Na	ame		File	Туре	Status	A
	bcpks_bcpcontract_main.spc			SPC		Generated -	
	bcpks_bcpcontract_kernel.spc			SPC		Generated -	
	bcpks_bcpcontract_main.sql			SQL		Generated -	
	bcpks_bcpcontract_kernel.sql			SQL		Generated -	
	ARCHIVE_TABLESBCPCONTRACT.DDL			DDL		Generated -	
	STTM_PURGE_MASTERBCPCONTRACT.INC			INC		Generated -	
	STTM_PURGE_TBL_DETAILSBCPCONTRACT.INC			INC		Generated -	
	STTM_PURGE_FILTER_DETAILSBCPCONTRACT.IN	С		INC		Generated -	
	BCPCONTRACT_RAD.xml			RADXML		Generated -	
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