

Scheduler PLSQL JOB Creation
Oracle FLEXCUBE Universal Banking
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1. Introduction

This document introduces the reader to the procedure to be followed for Scheduler PLSQL.JOB Creation for FLEXCUBE Universal Banking Solutions.

2. Background

This document is based on the requirement of creating PLSQL Jobs to be executed by Quartz Scheduler.

This document describes the procedure to be followed to accomplish the above.

3. Procedure

Follow the below steps to create PLSQL job.

1. Launch the job maintenance screen STDJOBMT for creation of a PLSQL Job.
2. Please provide the values for the fields. For information regarding individual fields please refer to Installation Docs.

The screenshot shows the 'Job Maintenance' window with the following fields and values:

Section	Field	Value	
Job Description	Job Code *	ITSPNDARC	
	Job Description	Spend Batch Archival	
	Job Group	PLSQL	
	Job Type	Pl sql	
	Max Number Instances *	1	
	Scheduler	SchedulerFactory	
	Trigger Type	Simple	
	Scheduler Type	Quartz	
	Priority	Normal	
	Message Queue		
Job Details	Cron Expression		
	Class Or Procedure	tpks_spend_batch.pr	
	No of Submissions	-1	
	Interval In Seconds	864000	
	Trigger Listener		
	Active	<input type="checkbox"/>	
	Ds Name		
Logging Required	<input type="checkbox"/>		
Veto Blocked Trigger	<input type="checkbox"/>		
Startup Mode	Manual		
Parameter Details			
1 Of 1			
<input checked="" type="checkbox"/>	Parameter Name	Data Type	Parameter Value
<input checked="" type="checkbox"/>	NAME	Varchar	OFSS

Buttons: Save, Validate, Cancel

Footer fields: Maker, Checker, Mod No, Date Time, Record Status, Authorization Status

A PLSQL job can be Stateful or Stateless .

Stateful Job

If the job is configured to be STATEFUL then missed instances will be queued up so that scheduler would start executing once the long running job ends. It means , there will be no parallel execution of the proceure.

To make a executing class as Stateful, please add two annotations to the job class.

- @PersistJobDataAfterExecution
- @DisallowConcurrentExecution

Stateless Job

If the job is configured as STATELESS, threads can be run in parallel and can execute the same procedure .

If the job is configured as stateless, the value of field Max Number Instances will denote the number of threads that can be executed in parallel .If the job is configured as stateful, then the above value will denote the number of missed instances that will be queued up so that quartz scheduler would start executing them once a long running job ends. This field specifies the number of such job instances that needs to be queued up.

The class defined in the class field has to be provided a fully qualified name.



Note the following:

- For every PLSQL job, the executing class is FCPLSQLJobInvoker.java, which is configured as stateless.
- Job params can be added to a particular PLSQL job in this screen as shown above ,which are passed to the procedure maintained .

Example

Suppose we have created a new ITSPNDARC PLSQL job for Spend Batch Archival. Here it is a PLSQL job, where the procedure to be executed is itpks_spend_batch.pr_spend_archival.

Job Maintenance

Save

Job Description

Job Code * ITSPNDARC
 Job Description Spend Batch Archival
 Job Group PLSQL
 Job Type Pl sql
 Max Number Instances * 1
 Scheduler SchedulerFactory
 Trigger Type Simple
 Scheduler Type Quartz
 Priority Normal
 Message Queue
 Validate

Job Details

Cron Expression
 Class Or Procedure tpks_spend_batch.pr_
 No of Submissions -1
 Interval In Seconds 864000
 Trigger Listener
 Active
 Ds Name
 Logging Required
 Veto Blocked Trigger
 Startup Mode Manual

Parameter Details

1 Of 1 Go

Parameter Name	Data Type	Parameter Value
NAME	Varchar	OFSS

Maker Date Time:
 Checker Date Time:
 Mod No Record Status
 Authorization Status

Cancel



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