

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 displays the 'Job Maintenance' window with the following sections:

- Job Description:**
 - Job Code: ITSPNDARC
 - Job Description: Spend Batch Archival
 - Job Group: PLSQL
 - Job Type: PLSql
 - Max Number Instances: 1
 - Scheduler: SchedulerFactory
 - Trigger Type: Simple
 - Scheduler Type: Quartz
 - Priority: Normal
 - Message Queue: (empty)
- Job Details:**
 - Cron Expression: (empty)
 - Class Or Procedure: tpks_spend_batch.pr
 - No of Submissions: -1
 - Interval In Seconds: 864000
 - Trigger Listener: (empty)
 - ☐ Active
 - Ds Name: (empty)
 - ☐ Logging Required
 - ☐ Veto Blocked Trigger
 - Startup Mode: Manual
- Parameter Details:**
 - Navigation: 1 Of 1, Go
 - Table with 4 columns: Parameter Name, Data Type, Parameter Value, and an unchecked checkbox column.
 - Row 1: NAME, Varchar, OFSS, unchecked checkbox.
- Footer:**
 - Maker, Checker, Mod No
 - Date Time, Date Time, Record Status, Authorization Status
 - Cancel button

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 procedure.

To make an 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 need 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

PI 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

+

-

<input checked="" type="checkbox"/>	Parameter Name	Data Type	Parameter Value
<input checked="" type="checkbox"/>	NAME	Varchar	OFSS

Maker

Checker

Mod No

Date Time:

Date Time:

Record Status

Authorization Status

Cancel



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