

Oracle Banking APIs

Auto Categorization of Spend Transactions

Release 19.1.0.0.0

Part No. F18559-01

May 2019

ORACLE®

Auto Categorization of Spend Transactions
May 2019

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax: +91 22 6718 3001

www.oracle.com/financialservices/

Copyright © 2019, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are “commercial computer software” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Table of Contents

1. Preface	4
1.1 Intended Audience	4
1.2 Documentation Accessibility	4
1.3 Access to Oracle Support	4
1.4 Structure.....	4
1.5 Related Information Sources.....	4
2. Auto Categorization Of Spend Transactions	5

1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=accandid=docacc>.

1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=accandid=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=accandid=trs> if you are hearing impaired.

1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Purpose
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking APIs Release 18.3.0.0.0, refer to the following documents:

- Oracle Banking APIs Licensing Guide

2. Auto Categorization Of Spend Transactions

Scenario:

If a Spend transaction description contains keyword "Big Bazaar" then that transaction should get auto-categorized as follows:

Category --> Shopping

Subcategory --> Groceries

Maintenance steps:

1. Create a Category and a Subcategory as required after login as an Admin user.
2. Note the CATEGORY_ID column value of the newly created Category & Subcategory from the table DIGX_SP_SPEND_CATEGORY (Eg: 10 and 101 respectively).
3. Insert a row in table DIGX_RL_SPEND as below (Note the ID column value which is '10001' in this example).

Sample script:

```
insert into DIGX_RL_SPEND (ID, CREATED_BY, CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS,
OBJECT_VERSION_NUMBER, NAME, DESCRIPTION, DETERMINANT_VALUE)
values ('10001', '', sysdate , '', sysdate , '', 1, 'SpendRule',
'SpendDTODesc', 'OBDX_BU');
```

4. Insert a row in table DIGX_RL_CONDITION as below:
 - a. ID as any unique value
 - b. RULE_ID as provided in the DIGX_RL_SPEND table above
 - c. EXPRESSION_OBJECT value should contain the keyword as follows:

```
utl_raw.cast_to_raw('{
"@class" :
"com.ofss.digx.app.common.dto.rule.SpendCategorizationExpressionFactValueDTO",
"keyword" : "Big Bazaar"
}')
```
 - d. OUTCOME_OBJECT value should contain the corresponding Category & Subcategory ID as follows (Subcategory is NOT mandatory):

```
utl_raw.cast_to_raw('{
"@class" :
"com.ofss.digx.app.common.dto.rule.SpendCategorizationOutcomeFactValueDTO",
"category" : "10",
"subCategory" : "101"
}')
```
 - e. OPERATOR value should be 'CONTAINS' (No other operators are supported out of the box)

Sample script:

```
insert into DIGX_RL_CONDITION (ID, RULE_ID, OPERATOR,
OUTCOME_OBJECT, EXPRESSION_OBJECT, CREATED_BY, CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS,
OBJECT_VERSION_NUMBER, DETERMINANT_VALUE)
```

```

values ('103', '10001', 'CONTAINS', utl_raw.cast_to_raw('{
"@class" :
"com.ofss.digx.app.common.dto.rule.SpendCategorizationOutcomeFactValueDTO",
"category" : "10",
"subCategory" : "101"
}'), utl_raw.cast_to_raw('{
"@class" :
"com.ofss.digx.app.common.dto.rule.SpendCategorizationExpressionFactValueDTO",
"keyword" : "Big Bazaar"
}'), '', null, '', null, '', 1, 'OBDX_BU');

```

5. Insert such rows in table DIGX_RL_CONDITION for each keyword & Category-Subcategory combination as required by the Bank.
6. Verify the following properties (select * from DIGX_FW_CONFIG_ALL_B where category_id = 'ruleconfig'):
 - a. IS_RULE_EVALUATION_REQUIRED --> Y
 - b. SPEND_EVALUATOR --> com.ofss.digx.app.spendanalysis.ruleengine.evaluator.SpendRuleEvaluator (out of the box Spend rule evaluator)
 - c. SPEND_RULE_NAME --> SpendRule (As per the value of NAME column in DIGX_RL_SPEND table)

[Home](#)