# Oracle® Banking Digital Experience Cloud Service

**Auto Categorization of Spend Transactions** 





Oracle Banking Digital Experience Cloud Service Auto Categorization of Spend Transactions, Release 25.1.1.0.0 G46569-01

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#### **Preface**

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- Audience
- Documentation Accessibility
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- Related Resources
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- Acronyms and Abbreviations

#### Purpose

This guide is designed to help acquaint you with the Oracle Banking application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

#### **Audience**

This document is intended for the following audience:

- Customers
- Partners

#### **Documentation Accessibility**

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

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and



the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

#### Conventions

The following text conventions are used in this document:

Convention	Meaning	
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.	
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.	
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.	

#### Related Resources

For more information on any related features, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals
- Oracle Banking Digital Experience Licensing Manuals

#### Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes; actual screens that appear in the application may vary based on selected browser, theme, and mobile devices.

# Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1 Acronyms and Abbreviations

Abbreviation	Description
OBDX	Oracle Banking Digital Experience

# **Auto Categorization Of Spend Transactions**

This topic provides information on 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:

- 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:

- 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:

d. OUTCOME\_OBJECT value should contain the corresponding Category & Subcategory ID as follows (Subcategory is NOT mandatory):



 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.spendanalysis.dto.rule.SpendCategorizationOutcomeFact
ValueDTO","category" :
        "10", "subCategory":
        "101"}'),
        utl raw.cast to raw('{ "@class" :
"com.ofss.digx.app.spendanalysis.dto.rule.SpendCategorizationExpressionF
actValueDTO","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.
- Verify the following properties (select \* from DIGX\_CFG\_CONFIG\_ALL\_B where prop\_id like 'RuleConfig%';
  - a. IS RULE EVALUATION REQUIRED  $\rightarrow Y$
  - b. SPEND\_EVALUATOR → com.ofss.digx.app.spendanalysis.ruleengine.evaluator.SpendRuleEvaluator (out of the box Spend rule evaluator)
  - SPEND\_RULE\_NAME → SpendRule (As per the value of NAME column in DIGX RL SPEND table)
  - d. SPEND\_DEFAULT\_CATEGORY\_ID → This property is used for maintaining default category, if no keyword is match from all maintained rules.

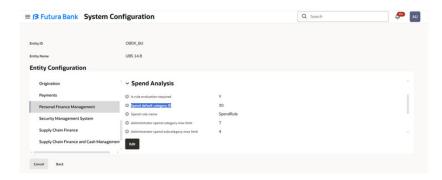
Below attached screenshot entry is required for setting default category. We need to update the entry from day one configuration screen. We have to maintain the Category ID in this configuration value.

#### (i) Note

If below entry is not maintain and no rule is matched, then no category is set against the spend transaction.



Figure 1-1 "System configuration" screen with required entry for setting default category



# Categorization Of Spend Transactions Using ML Engines

This topic provides information on Categorization Of Spend Transactions Using ML Engines.

Bank must use their own Third-party ML Engine provider and customized adapter. If they don't have ML engine provider, then they have to disable the ML Engine call using **Configuration of ML call for Spend transaction categorization** flag as mentioned ahead. If in case categories provided by ML engine does not exist in the system, then system will create those categories.

To enable the ML engine call, we need to set the **Spend transaction Machine Learning** categorization flag to **Y**. If user do not set this value, the ML engine service will remain inactive by default.

We can be able to update the flag with the help of **System configuration** screen with Admin Type Role.

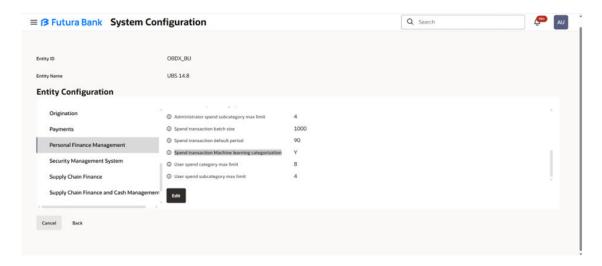


Figure 2-1 System configuration screen with Admin Type Role

Below entry are required to activate ML engine interface call.



','01','ofssuser',to\_timestamp(sysdate,'DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to\_timestamp(sysdate,'DD-MON-RR HH.MI.SSXFF AM'));

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