# Oracle® Banking Corporate Lending Data Model - Getting Started



Release 14.7.5.0.0 G15168-01 September 2024

ORACLE

Oracle Banking Corporate Lending Data Model - Getting Started, Release 14.7.5.0.0

G15168-01

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#### 1 Data Model – Getting Started

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### Preface

This topic contains the following sub-topics:

- Purpose
- Audience
- Documentation Accessibility
- Critical Patches
- Diversity and Inclusion
- Conventions
- Screenshot Disclaimer
- Basic Actions
- Symbols and Icons

#### Purpose

This document describes the reverse engineering methodology to get the Oracle Banking Corporate Lending Data Model for a given business purpose. A given business purpose could vary from report generation to data extraction to extending Oracle Banking Corporate Lending application functionality.

#### Audience

This guide is intended for application developers who need to understand the OBCL data model.

### **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=acc&id=docacc.

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#### **Critical Patches**

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to make sure effective security, as strongly recommended by Oracle Software Security Assurance.



### **Diversity and Inclusion**

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

| 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. |

The following text conventions are used in this document:

### **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.

### **Basic Actions**

| lable 1 | List of Basic Actions |  |
|---------|-----------------------|--|
|         |                       |  |

- -

| Action    | Description   |
|-----------|---|
| Approve   | Click <b>Approve</b> to approve the initiated report.<br>This button is displayed, once the user click <b>Authorize</b> .   |
| Audit     | Click <b>Audit</b> to view the maker details, checker details of the particular record, and record status.<br>This button is displayed only for the records that are already created.                                       |
| Authorize | Click <b>Authorize</b> to authorize the record created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a record. This button is displayed only for the already created records. |
| Close     | Click <b>Close</b> to close a record.<br>This action is available only when a record is created.  |
| Confirm   | Click <b>Confirm</b> to confirm the performed action.   |
| Cancel    | Click Cancel to cancel the performed action.  |
| Compare   | Click <b>Compare</b> to view the comparison through the field values of old record and the current record.<br>This button is displayed in the widget, once the user click <b>Authorize</b> .                                |



| Action                  | Description   |
|-------------------------|---|
| Collapse All            | Click <b>Collapse All</b> to hide the details in the sections.<br>This button is displayed, once the user click <b>Compare</b> .  |
| Expand All              | Click <b>Expand All</b> to expand and view all the details in the sections.<br>This button is displayed, once the user click <b>Compare</b> .   |
| New                     | Click <b>New</b> to add a new record. The system displays a new record to specify the required data.           Image: Note:       The fields which are marked in asterisk red are mandatory fields.                       |
| ОК                      | Click <b>OK</b> to confirm the details in the screen.   |
| Save                    | Click Save to save the details entered or selected in the screen.   |
| View                    | Click <b>View</b> to view the report details in a particular modification stage.<br>This button is displayed in the widget, once the user click <b>Authorize</b> .  |
| View Difference<br>only | Click <b>View Difference only</b> to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click <b>Compare</b> . |

#### Table 1 (Cont.) List of Basic Actions

## Symbols and Icons

The list of symbols and icons available on the screens are as follows:

| Symbol/Icon | Function                     |
|-------------|------------------------------|
| J L         | Minimize                     |
| <b>٦</b> г  |                              |
| r 7         | Maximize                     |
| L J         |                              |
| ×           | Close                        |
| Q           | Perform Search               |
| •           | Open a list                  |
| K           | Navigate to the first record |
| X           | Navigate to the last record  |

Table 2 Symbols and Icons - Common



| Symbol/Icon                             | Function   |
|---|--|
| •                                       | Navigate to the previous record                          |
| •                                       | Navigate to the next record                              |
| 88                                      | Grid view  |
| 目目                                      | List view  |
| Ģ                                       | Refresh  |
| +                                       | Click this icon to add a new row.                        |
| -                                       | Click this icon to delete a row, which is already added. |
| iii ii | Calendar   |
| Û                                       | Alerts   |
| 6                                       | Unlock Option  |
| Ð                                       | View Option  |
| B                                       | New  |
|   | Enter query  |
| B                                       | Execute query  |
| G                                       | Сору   |
| 0.                                      | Delete   |
|   | Save   |
| 5                                       | Search   |
| E                                       | Advanced search  |

Table 2 (Cont.) Symbols and Icons - Common



| Table 2 | (Cont.) Symbols and Icons - Commo | on |
|---------|-----------------------------------|----|

| Symbol/Icon | Function     |
|-------------|--------------|
| <b>[</b> ]  | Clear all    |
| ŝ           | Reset        |
| D.          | Export       |
| <b>母</b>    | Print        |
|             | View Details |
| $\Diamond$  | Sorting      |

#### Table 3 Symbols and Icons - Widget

| Symbol/Icon    | Function            |
|----------------|---------------------|
| £              | Open status         |
|                | Unauthorized status |
| <b>₽</b> ×     | Rejected status     |
| 合              | Closed status       |
| D              | Authorized status   |
|                | Modification Number |
|                | Hold                |
| tł             | Reverse             |
| O <sup>4</sup> | Authorize           |
| æ              | Rollover            |

## 1 Data Model – Getting Started

#### **OBCL Data Model**

This document describes the reverse engineering methodology to get the OBCL Data Model for a given business purpose. A given business purpose could vary from report generation to data extraction to extending OBCL application functionality. This topic has the following sub-topics:

- Why Reverse Engineering This topic describes the reverse engineering importance.
- OBCL Data model schema This topic describes the steps to get the Oracle OBCL Data model schema.
- Oracle SQL Developer Data Modeler
   This topic describes the Oracle SQL Developer Data Modeler.
- Creating Data Model and ER diagram
   This document describes the steps to create data model and ER diagram

### 1.1 Why Reverse Engineering

This topic describes the reverse engineering importance.

As the complete ER diagram of OBCL application would be huge, the business application developers need to re-engineer with required filtered portion of OBCL to get specific portion of data model. Example: There is a business requirement to add additional fields to customer personal information.

The business developer could filter the Customer specific entities from OBCL Database schema and generate the ER diagram. This ER diagram further can be used to understand the OBCL and can be foundation for further business development requirement.

### 1.2 OBCL Data model schema

This topic describes the steps to get the Oracle OBCL Data model schema.

- Identify the new Oracle Database schema for data model purpose.
- Create the OBCL database tables by running all the DDL scripts in below folder at the schema identified.
  - OBCL\_14.4.0.1.0\MAIN\DATABASE\HOST\CONSOL\DDL\TABLE
  - OBCL\_14.4.0.1.0\MAIN\DATABASE\BRANCH\CONSOL\DDL\TABLE
- Create Foreign Keys in schema using following scripts at the schema identified.
  - OBCL\_14.4.0.1.0\MAIN\DATABASE\DATAMODEL\HOST\CONSOL\FKR
- Create column comments using below scripts at the schema identified.
  - OBCL\_14.4.0.1.0\MAIN\DATABASE\DATAMODEL\HOST\CONSOL\CMT



#### Note:

The Database environment used for this data model cannot be used for other testing/production purpose.

### 1.3 Oracle SQL Developer Data Modeler

This topic describes the Oracle SQL Developer Data Modeler.

Ensure you have installed the Oracle SQL Developer Data model in your local system. Refer further Oracle documentation for download and install instructions, http://www.oracle.com/technetwork/developer-tools/datamodeler/downloads/index.html

### 1.4 Creating Data Model and ER diagram

This document describes the steps to create data model and ER diagram

1. Open the Oracle SQL Developer Data modeler.





2. Click on File  $\rightarrow$  Import  $\rightarrow$  Data dictionary.

| 🛢 Oracle SQL Developer Data Modeler : Start Page   |  | X        |
|--|--|----------|
| <u>File</u> Edit Yiew Design Versioning Tools Help   |  |          |
| 🔁 Open 🔄 🕘 Start   | t Page   | 00       |
| Close All  | Â  | Navigato |
| ∃ Save         Ctrl-S           Save As         Ctrl+Alt+Shift-S   |  | 9        |
| Import DDL File  | cti+shird Cle SQL Developer  |          |
| Export   |  |          |
| Reports In From Microsoft XMLA   | a Data Modeler   |          |
| Compare With  Compare With Comp | Visit Oracle online for more   |          |
| Print Diagram  | Ctri+shift B   |          |
| Recent Designs   | del Ctri+shift-0 Online Demonstrations   |          |
| Exit Alt-F4  | Tutorials  |          |
|  | Ctri+shift:M Documentation   |          |
|  | SOL Developer Exchange   |          |
|  | COL Developer Data Medeler Forum   |          |
| <  |  |          |
| Messages   | s-Log  |          |
| 2011-03<br>2011-03   | 3-28 19:18:11 - Load Controllers<br>3-28 19:18:11 - Init Recently opened Designs |          |
|  |  |          |
|  |  |          |
|  |  |          |
|  |  |          |
|  |  |          |
|  |  |          |
|  |  |          |
|  | Ed   | ting     |
| 🯄 start 🧷 🖉 🦻 🤌 🤌 🦉 🦉 🖓 F. 💽 1   | T. 🔄 F. 😝 O 😌 Search Desktop 🔎 🕄 🖓 🖂 😔 🗩 🔊 🐉 🧐 7:18 PT                           | 1        |

3. Click Add.



| Data Dictionary Import Wizard |          |  |               |               |  |
|-------------------------------|----------|--|---------------|---------------|--|
|                               |          | Select database connection to connect to desired database.<br>If the list is empty use the "Add" button to create one. |               |               |  |
| 1. Connect to Database.       | Name     | Туре   | Host          | Port          |  |
| 2. Select Schema/Database.    |          |  |               |               |  |
| 3. Select Objects to Import.  |          |  |               |               |  |
| 4. Generate Design.           |          |  |               |               |  |
|                               |          |  |               |               |  |
|                               |          |  |               |               |  |
|                               |          |  |               |               |  |
|                               |          |  |               |               |  |
|                               |          |  |               |               |  |
|                               |          |  |               |               |  |
|                               | Add Remo | we Import  | Properties Ie | st Connection |  |
|                               |          | < <u>B</u> ack <u>N</u> ext >  | Einish Cancel | Help          |  |

4. Provide the database connectivity.

| 🕃 New / Upda             | te Database Connection                                  | × |
|--------------------------|---|---|
| Co <u>n</u> nection Name | FCKERDATAMODEL  |   |
| <u>U</u> ser Name        | FCKERDATAMODEL  |   |
| <u>P</u> assword         | •••••   |   |
| ✓ Save Password          |   |   |
| Oracle JDBC              | ODBC Bridge   |   |
| Role                     | default 💌   |   |
| Connection Type          | Basic 🔻   |   |
| Hostn <u>a</u> me        | 10.184.74.142   |   |
| Po <u>r</u> t            | 1521  |   |
| ⊙ S <u>I</u> D           | KERDEV2   |   |
| ◯ S <u>e</u> rvice name  |   |   |
|                          |   |   |
|                          |   |   |
|                          |   |   |
|                          |   |   |
|                          |   |   |
|                          |   |   |
|                          |   |   |
|                          |   |   |
| Help                     | Clear         Iest Connection         OK         Cancel |   |

5. Click **Test Connection** and ensure it is successful. If connection fails, verify and repeat step4.





6. Click database connection row.

| Data Dictionary Import Wizard |     |   |   |  |                             |
|-------------------------------|-----|---|---|--|-----------------------------|
|                               |     | Select database c<br>If the list is empty | onnection to connec<br>use the "Add" buttor | t to desired datab<br>n to create one. | ase.                        |
| 1. Connect to Database.       |     | Type                                      | Hi  | ost<br>) 184 74 142                    | Port                        |
| 2. Select Schema/Database.    |     | ordeo                                     |   |  | 1061                        |
| 3. Select Objects to Import.  |     |   |   |  |                             |
| 4. Generate Design.           |     |   |   |  |                             |
|                               |     |   |   |  |                             |
|                               |     |   |   |  |                             |
|                               |     |   |   |  |                             |
|                               |     |   |   |  |                             |
|                               | Add | Remove Import                             | Proper                                      | ties                                   | Test Connection             |
|                               |     | < <u>B</u> ack                            | Next >                                      | Einish                                 | <u>C</u> ancel <u>H</u> elp |

7. Select the database schema name.



| Data Dictionary Import Wizar                | d            | X   |
|---|--------------|---|
|   | 3            | Select the schema/database you wish to import.                |
| 4 C   | Selected     | Schema  |
| 1. Connect to Database.                     |              | ועכוייכנטיד   |
|   |              | FCISSMSUT1  |
| 2. Select Schema/Database.                  |              | FCISSMSUT2  |
|   |              | FCISSPD1  |
|   |              | FCISSPUT1   |
| <ol><li>Select Objects to Import.</li></ol> |              | FCISSPUT2   |
|   |              | FCIS_MDS  |
| 4. Generate Design                          |              | FCIS_ORABAM   |
| +. Conclute Debign.                         |              | FCIS_ORASDPM  |
|   |              | FCIS SOAINFRA   |
|   |              | FCITR2  |
|   |              | FCKERDATAMODEL  |
|   |              | FCMOBILE  |
|   |              | FCPB1121  |
|   |              | FCPBIT1   |
|   |              | FCPBIT1READ   |
|   | H H          | ECPBIT2   |
|   |              | ECSUPPOT  |
|   |              | ECTRNGDEV112  |
|   |              | ECLIBSELCM  |
|   |              | ECLIBSTISLIP1   |
|   | Filter:      | All Selected Secondary Tables Spatial Properties              |
|   | -Import to:  |   |
|   | Relational_1 | Swap target model     Oracle Database 11g     Compare Mapping |
|   |              | <back next=""> Einish Cancel Help</back>                      |

8. Select the entities( tables ) that are to be used in ER diagram.

| ••                        |                         | Select the objects you            | wish to import.                              |
|---------------------------|-------------------------|-----------------------------------|--|
| Connect to Database       | Selected                | Schema                            | Object Name                                  |
| . Connect to Database.    |                         | FCKERDATAMODEL                    | CVTW UPLOAD MONITOR                          |
|                           |                         | FCKERDATAMODEL                    | CYTA RATES                                   |
| . Select Schema/Database. |                         | FCKERDATAMODEL                    | CYTE ACCE POSITION                           |
|                           |                         | FCKERDATAMODEL                    | CYTB_CASH_POSITION                           |
| Select Objects to Import  |                         | FCKERDATAMODEL                    | CYTB_CCY_PAIR                                |
| Select objects to import. |                         | FCKERDATAMODEL                    | CYTB_CCY_POSITION                            |
|                           |                         | FCKERDATAMODEL                    | CYTB_DERIVED_RATES_HISTORY                   |
| l, Generate Design.       |                         | FCKERDATAMODEL                    | CYTB_DUMMY                                   |
|                           |                         | FCKERDATAMODEL                    | CYTB_DUMMY_BACKUP                            |
|                           |                         | FCKERDATAMODEL                    | CYTB_RATES_HISTORY                           |
|                           |                         | FCKERDATAMODEL                    | CYTB_RATES_REVAL                             |
|                           |                         | FCKERDATAMODEL                    | CYTB_RATES_UPLOAD                            |
|                           |                         | FCKERDATAMODEL                    | CYTM_CCY_COUNTRY_MAPPING                     |
|                           | ✓                       | FCKERDATAMODEL                    | CYTM_CCY_DEFN                                |
|                           |                         | FCKERDATAMODEL                    | CYTM_CCY_DEFN_INTMDT                         |
|                           |                         | FCKERDATAMODEL                    | CYTM_CCY_DEFN_UPLOAD                         |
|                           |                         | FCKERDATAMODEL                    | CYTM_CCY_DENO_DETAIL                         |
|                           |                         | FCKERDATAMODEL                    | CYTM_CCY_DENO_MASTER                         |
|                           |                         | FCKERDATAMODEL                    | CYTM_CCY_PAIR_DEFN                           |
|                           |                         | FCKERDATAMODEL                    | CYTM_CCY_PAIR_DEFN_UPLOAD                    |
|                           |                         | FCKERDATAMODEL                    | CYTM_CCY_WEIGHTAGES                          |
|                           |                         | FCKERDATAMODEL                    | CYIM CUST SPREAD DETAILS                     |
|                           | Tables Views Users      | Roles Directories External Tables | Contexts Clusters Sequences Synonym          |
|                           | TableSpaces Temp TableS | 5paces Dimensions Types Packages  | Stored Procedures Functions Undo TableSpaces |
|                           | 💓 🧮 Filter:             |                                   |  |



| Data Dictionary Import Wizard | 2                        | Colorita di stano                 |   |     |
|-------------------------------|--------------------------|-----------------------------------|---|-----|
|                               |                          | Select the objects you wi         | ish to import.                            |     |
| 1. Connect to Database        | Selected                 | Schema                            | Object Name                               |     |
| connect to Butabassi          |                          | FCKERDATAMODEL                    | STTM_CUSACC_ACLASS                        |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTACC_LOG                          |     |
| 2. Select Schema/Database.    |                          | FCKERDATAMODEL                    | STTM_CUSTAC_CLOSE_MODE                    |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTAC_CLOSURE_PAYOUT                |     |
| 3. Select Objects to Import.  |                          | FCKERDATAMODEL                    | STTM_CUSTAC_CRDR_LMTS                     |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTAC_PRODUCTS                      |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTAC_TXNCODE                       |     |
| 4. Generate Design.           |                          | FCKERDATAMODEL                    | STTM_CUSTOMER                             |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTOMER_ALTERNATE_BRANCH            | H.  |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTOMER_CAT                         |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTOMER_NAM_DETAIL                  |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTOMER_NAM_MASTER                  |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTOMER_PARAM                       |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTOMER_PRE_IMAGE                   |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTOMER_SRNO                        |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUSTPROFESSIONAL_PREIMAGE            |     |
|                               | ✓                        | FCKERDATAMODEL                    | STTM_CUST_ACCOUNT                         |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUST_ACCOUNT_BREAKUP                 |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUST_ACCOUNT_DORMANCY                |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUST_ACCOUNT_LINKAGES                |     |
|                               |                          | FCKERDATAMODEL                    | STTM_CUST_ACCOUNT_PRE_IMAGE               |     |
|                               |                          | FCKERDATAMODEL                    | STTM CUST ACC BILL PROD                   | _   |
|                               | Tables Views Users       | Roles Directories External Tables | Contexts Clusters Sequences Syno          | nym |
|                               | TableSpaces Temp TableSp | aces Dimensions Types Packages    | Stored Procedures Functions Undo TableSpa | ces |
|                               | Filter:                  |                                   |   |     |
|                               | 1                        | < Back Next >                     | Finish Cancel Helr                        |     |

9. Click Next.

| Data Dictionary Import Wizard |   | × |
|-------------------------------|---|---|
| • = : :                       | View summary and generate Oracle SQL Developer Data Modeler design.   |   |
| 1. Connect to Database.       | Database Name: Oracle<br>Database Version: Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 - 64bit Production |   |
| 2. Select Schema/Database.    | DB Objects that will be imported:<br>TABLE 4  |   |
| 3. Select Objects to Import.  |   |   |
| 4. Generate Design.           |   |   |
|                               |   |   |
|                               |   |   |
|                               |   |   |
|                               |   |   |
|                               |   |   |
|                               |   |   |
|                               |   |   |
|                               | < Back Next > Einish Cancel Help  |   |

10. Click Finish.









11. The ER diagram can be saved as .dmd file if required.









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Creating Data Model and ER diagram, 1-2

