Data Model Oracle Banking Digital Experience Patchset Release 22.2.3.0.0

Part No. F72987-01

February 2024

# ORACLE

Data Model February 2024

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 © 2006, 2024, 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						
	1.1	Intended Audience	1–1				
	1.2	Documentation Accessibility	1–1				
	1.3	Access to Oracle Support	1–1				
	1.4 Structure		1–1				
	1.5	Related Information Sources	1–1				
2.	Intr	oduction	2–1				
3.	Pre	requisite	3–1				
4.	Cre	ating Data Model and ER diagram	4–1				

# 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 <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>.

## 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=acc&id=info or visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=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:

- Introduction
- Preferences & Database
- Configuration / Installation.

#### 1.5 <u>Related Information Sources</u>

For more information on Oracle Banking Digital Experience Patchset Release 22.2.3.0.0, refer to the following documents:

Oracle Banking Digital Experience Installation Manuals



Preface



# 2. Introduction

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

.



# 3. Prerequisite

Following is the prerequisite for generating OBDX data Model

- a. OBDX schema This can be any testing schema created using OBDX installer.
- b. 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. <u>http://www.oracle.com/technetwork/developer-tools/datamodeler/downloads/index.html</u>



# 4. Creating Data Model and ER diagram

1. Open the Oracle SQL Developer Data modeler

	oftwares > datamodeler				🗸 👸 🔎 Search ເ	latamodeler
→  →  ↑  →  →  →  →  →  →  →  →  →  →  →  →  →	Name	Y Data modified	Tune	Size	y Search o	
🛃 avsakpal 💻 This PC		Date modified	Туре	Size		
Dis PC	datamodeler	12/5/2020 3:14 PM 12/5/2020 3:14 PM	File folder File folder			
Desktop	datamodeler dropins	12/5/2020 3:14 PM	File folder			
Documents	dvt	12/5/2020 3:14 PM	File folder			
Downloads	equinox	12/5/2020 3:14 PM 12/5/2020 3:14 PM	File folder File folder			
h Music	ide	12/5/2020 3:14 PM	File folder			
Pictures	📕 jdbc	12/5/2020 3:14 PM	File folder			
Videos System (C:)	jdev	12/5/2020 3:14 PM	File folder			
Data (D:)	jdk jib	12/5/2020 3:14 PM 12/5/2020 3:14 PM	File folder File folder			
SMfeDeepRem	module	12/5/2020 3:14 PM	File folder			
🔜 apache	modules	12/5/2020 3:14 PM 12/5/2020 3:14 PM	File folder File folder			
docker	netbeans rdbms	12/5/2020 3:14 PM	File folder			
Hyper-V	sleepycat	12/5/2020 3:14 PM	File folder			
itr	sqldeveloper	12/5/2020 3:14 PM	File folder			
Oracle	svnkit	12/5/2020 3:14 PM 10/9/2020 7:12 AM	File folder Application	84 KB		
softwares	icon.png	10/9/2020 7:12 AM	PNG File	15 KB		
apache-maven-3.6.2						
datamodeler						
eclipse ems 1 item selected 83.6 KB	~					BEE
Cut	👃 📑 🗙 🛋 📜 🖏 New item	s • 🚩 🕞 Edit	Select all			
cess Paste Paste shortcut b	ove Copy Delete Rename New folder		Invert selection			
Clipboard	Organize New	Open	Select			
→ ~ ↑ 📙 → This PC → Data (D:) → se					ע ט ג⊂ Search o	latamodeler
avsakpal 🗾 This PC	^ Name	Date modified	Туре	Size		
3D Objects						
Desktop		ORACL	e:			
Documents						
Downloads		SQL DEVELOP	PER			
Music						
Pictures						
Videos	Loading					
System (C:)						
Data (D:)				Version 20.3.0		
SMfeDeepRem						
apache						
docker				reserved.		
Hyper-V	rdbms	12/5/2020 3:14 PM	File folder			
itr	sleepycat	12/5/2020 3:14 PM	File folder			
obp	sqldeveloper svnkit	12/5/2020 3:14 PM 12/5/2020 3:14 PM	File folder File folder			
Oracle	datamodeler.exe	10/9/2020 7:12 AM	Application	84 KB		
softwares	icon.png	10/9/2020 7:12 AM	PNG File	15 KB		
apache-maven-3.6.2						
datamodeler						
eclipse ems 1 item selected 83.6 KB	•					8=
						_
cle SQL Developer Data Modeler Edit <u>V</u> iew Tea <u>m T</u> ools <u>W</u> indow <u>H</u> elp						- 0
er ×				Vorrig 20	Navigator	×
Logical Model     Multidimensional Models []	SQL Developer Data Modeler			VC/51011. 20		
Relational Models [1]   Relational_1						
	Designs	Get	ting Started			
(iii) Data Types Model     (iii) Process Model     (iii) Business Information						
Change Requests [] Change Requests [] Sensitive Types []	Recent Default Designs Directory			nformation Tutorials D	)emos	
- By TSDP Policies []	Select Dir	rectory	aining			
			acle VirtualBox Applia	ance		
		Do	cker Images			
		Or	acle Database XE			
_						
	n - source	0-1			~	
Mess	ages - Log	0.1	TI-		×.	
Mess			l-		× 2	
Mess	ages - Log					
Mess	ages - Log				×.	



🖷 Oracle SQL Developer Data Mode	ler : Welcome Page		_	o >	×
Eile Edit View Team Tools	Window Help				
Den Ctri-O					
Close Ctri-W	Welcome Page ×		Navigator	*	
Save Ctrl-S Ctrl-S Save As Ctrl+Alt+Shift-S	SQL Developer Data Modeler	Version: 20.3.0.283.0710			
[mport	DDL File Ctrl+Shift-D				
Export	VAR File Ctrl+Shift-V From Microsoft XMLA Ctrl+Shift-A	Getting Started			
Reports Page Setup Ctri-9	ERwin 4.1 File     ERwin 7.3 File				
Page Setup Ctrl-G Print Ctrl-P Print Diagram	Data Dictionary Ctri+Shift-B	Get a Database Information Tutorials Demos			
Recent Designs	Magazele Designer Model Select Directory				
Exit Alt-F4	Data Modeler Design Ctri+Shift-W      Domains Ctri+Shift-M	Oracle VirtualBox Appliance Docker Images			
		Grade Database XE			
	Welcome Page	Deleted Teels			
	Messages - Log	×			
	2020-12-05 16:39:49 - Building Diegramm				
🔳 २ म 💁	<u> </u>	<u> </u>		44 PM /5/2020 🛛	Ð

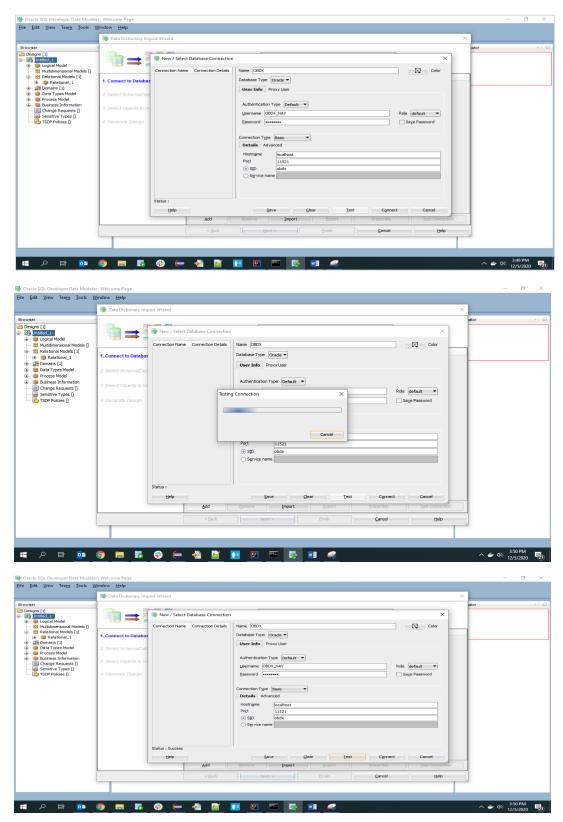
2. Click on File -> Import -> Data dictionary

	📑 Data Dictionary Import Wizard				×	
s [1] httled_1 D Logical Model Multidimensional Models []			Select database connection to connect If the list is empty use the "Add" butto			ator
Relational Models [1]	1. Connect to Database.	Connection Name	Connect	ion Details		
Domains [1] Data Types Model Process Model	2. Select Schema/Database.					
Business Information Change Requests []	3. Select Objects to Import.					
Sensitive Types [] TSDP Policies []	4. Generate Design.					
		Add Rema	Import Export	Properties	Test Connection	
			Next > Einish	Gancel	Help	

3. Click Add

Border (I)       Image: Second Podds (I)         Image: Second Podds (I)       Image: Second Podd (I)         Image: Second Podds (I)       Image: Second Podd (I)         Image: Second Podd (I)       Image: Second Podd (I)		🖶 Data Dictionary Imp	port Wizard		ator × 🖬
Bit-@ Calebook_1     1. Contect to Database       Bit-@ Calebook_1     1. Contect to Database       Bit-@ Calebook_1     2. Solied Schema/Data       Bit-@ Calebook_1     3. Solied Collects to Int       Bit-@ Calebook_1     4. Operande Design	Designs [1]     Untitled_1     Orgical Model     Will dogical Model     Will dimensional Models []	•=			×
	⊕ -      ⊕ Relational_1     ⊕ -      ⊕ Data Types Model     ⊕ -      ⊕ Process Model     ⊕ -      ⊕ Business Information     ⊡ Change Requests []     ←      ⊕ Sensitive Types []	2. Select Schema/Dati 3. Select Objects to Im		User Info Proxy User Authentication Type Default  Username Bassword Connection Type Basac Dotatal, Advanced Hostingne Occahoot Pott 1521 Occaho Editory Dotatal Dotata	
Status : <u>Utp</u> Save Ger Test Concet Cancet <u>Add Benove Import Doort Dropertes TestConnection</u>			Help		
< Back Bext> Brish Cancel Heb			< <u>B</u> ack	] Next > ] Brish ] Gancel	ttelp





4. Provide the schema details and Test the connection



5. If connection is successful click Connect

Browser       Competencial       Image: Competencial Compet	×
ab data for shorts [1]         Converse [1]           - @ Data Types Model         2. Select Schemas/Database.           - @ Data Types Model         2. Select Schemas/Database.           - @ Datamase Kinatan	
Grange Requests [] 3. Select Objects to Import     Select Yese []	
Sendber Types []     d. Generate Design	
Add Remove Import Export Properties Itest Connection	
< Sad. Spect > Drubh Cancel Help	

6. Select the newly created connection and click Next

	📑 Data Dictionary Import Wizard	×
r jns [1] jntitled_1 jjp Logical Model	i <b>*:</b> = ::::	Select the schemaldatabase you wish to import_
Multidimensional Models [] Relational Models [1]	1. Connect to Database.	Selected Schema
Domains [1]	2. Select Schema/Database.	APPQOSSYS AUGY'S CTXSYS
Process Model Business Information Change Requests []	3. Select Objects to Import.	DISPAUSER DISPAUSER DISPAUSE
Sensitive Types [] TSDP Policies []	4. Generate Design.	DVF DVSYS
		GS975 GSMADMIN_DHTENNAL GSMAATUSER
		GSMJER LBACSYS MCDATA
		MDSYS OBDX_TAU
		ORX_IAU_VPEND     ORX_IAU_VPENP     ORX_IAU_VPENP     ORX_IAU_VPENP
		OBDY_OPSS
		Filter: All Selected Options
		Relational_1         Swap Target Model         Oracle Database 12cR2         Compare Mapping
		< Back Next > Enich Cancel Help

7. Select the required schema and click 'Next'. All the schema objects will be listed.

	📑 Data Dictionary Import Wizard				>	×
wser Designs [1] Dintitled_1	• = ::::		Select the objects	you wish to import.		iator
Multidimensional Models []     Relational Models [1]		Selected	Scher		Object Name	
Relational 1	1. Connect to Database.	Juccus	OBDX NAV		EXDEAL TRANSACTION	
Domains [1]		-	OBDX_NAV		TRANSACTION	
Data Types Model	2. Select Schema/Database.		OBDX_NAV	DIGX_AP_NOM	FIN_FILE_TXN	-
Process Model			OBDX_NAV		FIN_REC_TXN	
Business Information	3. Select Objects to Import.		OBDX_NAV		ER_TRANSACTION	
Change Requests []	5. select objects to import.		OBDX_NAV		EE_TRANSACTION	
Sensitive Types []			OBDX_NAV	DIGX_AP_PAY		
TSDP Policies []	4. Generate Design.		OBDX_NAV		MENT_TRANSACTION	
· ·			OBDX_NAV OBDX_NAV		MENT_TXN_HIST ORD_TRANSACTION	
			OBDX_NAV		ORD_TXN_HIST	
			OBDX_NAV	DIGX_AP_RU		
			OBDX_NAV	DIGX_AP_RUL		
			OBDX_NAV	DIGX_AP_RUL	E_RULE_CRITERIA_REL	
			OBDX_NAV	DIGX_AP_STA	TUS_ACTION_MAP	
			OBDX_NAV		DE_TRANSACTION	
			OBDX_NAV	DIGX_AP_TRA		
			OBDX_NAV		_APPROVAL_HISTORY	
			OBDX_NAV		_APR_HISTORY_HIST	
			OBDX_NAV OBDX_NAV	DIGX_AP_TXN DIGX_AP_TXN		
			OBDX_NAV		PROCESS ERROR	-
		Tables Views U	sers Roles Directori		Materialized View Logs	
		Contexts Clusters		nonyms Tablespaces	Temp Tablespaces	
				Undo Tablespaces	Temp Teorespeces	
		Filter:	Stored Procedures   Parceons	Choo recreptices		
		< Back	Next >	nish Cancel	Help	



- . <u>File Edit View Team Tools Window H</u>elp 📑 Data Dictionary Import Wizard х ∎ = = Select the objects you wish to import. Object Name DIGK\_FI\_NATNL\_CRANG\_COOE\_TYPE DIGK\_FL\_SENDERLET\_OUM\_FILE DIGK\_FL\_SENDERLET\_OUM\_FILE DIGK\_FL\_SENDERLET\_OUM\_FILE DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_SENDERLET\_SENDERLET\_DIGMESTIC DIGK\_FL\_SENDERLET\_SEN 1. Connect to Database. OBDX\_NAV OBDX\_NAV OBDX\_NAV OBDX\_NAV OBDX\_NAV OBDX\_NAV OBDX\_NAV OBDX\_NAV OBDX\_NAV Schema Selected 2. Select Schema/Database 3. Select Objects to Import ~ OBDX\_NAV Directories Synonym ed View Logs Tables Conte Views Types Dimensions Types < Back Next > Cancel Help 📲 🔎 🖽 📴 🥥 🥽 🖏 😌 🖨 🎽 🔃 🖼 💀 🥵 🖷 🦃 へ ⇒ Φ») <sup>3:57 PM</sup> 12/5/2020 **1**21
- 8. Select the entities( tables ) that are to be used in ER diagram

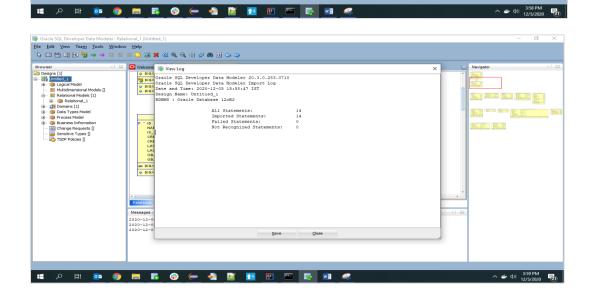
#### 9. Click 'Next'

🏶 Oracle SQL Developer Data Modele				- 0 >	×
Eile Edit View Team Iools V	⊻indow <u>H</u> elp		_		
	📑 Data Dictionary Import Wizard	×	(		
Browser		View summary and generate Oracle SQL Developer Data Modeler design.	ator	×	
😸 Multidimensional Models [] 😫 Relational Models [1] 	1. Connect to Database.	Database Name: Oracle Database Version: Oracle Database 12: Standard Edition Release 12.2.0.1.0 - 64bit Production			
10 - 11 Domains [1]     11 Data Types Model     10 - 10 Process Model	2. Select Schema/Database.	DB Objects that will be imported: TABLE 14			
Generation     Generation     Generation     Generation     Generation     Generation     Generative Types []	3. Select Objects to Import.				
TSDP Policies []	4. Generate Design.				
		< gade []ext > Enish Gancel Help			
🔳 🔎 🖽 📴	o 🗖 🖬 🕫 👄	🐣 📝 🔟 🖭 📼 👼 📾 🛹	~ 🛎 🗸	(↓)) 3:58 PM	21)



#### 10. Click Finish

🕦 Oracle SQL Developer Data Modele				– 6 ×
<u>Eile Edit View Team Tools V</u>	/indow Help			
	📑 Data Dictionary Import Wizard			×
Browser				ator × •
Designs [1]     Designs [		View summ	nary and generate Oracle SQL Developer Data Modeler design.	
Relational Models [1]     Relational _1	1. Connect to Database.	Database Name: Oracle Database Version: Oracle Database 12c	Standard Edition Release 12.2.0.1.0 - 64bit Production	
🗑 – 🎥 Domains [1] 🗑 – 🍿 Data Types Model	2. Select Schema/Database.	DB Objects that will be imported:		
···     ··		TABLE 14		
Change Requests []	3. Select Objects to Import.			
Sensitive Types []	4. Generate Design.			
		< Back Next	:> Enish Gancel Help	
		C Back	Dueu Parce Beb	
= 🔎 🖽 📴	o 🚍 🖪 🔂 🥌	- 🕗 📝 💽 🛛	🔤 📑 💽 🛹 data data data data data data data dat	へ 👉 (10) 3:58 PM 12/5/2020 🕎
📑 Oracle SQL Developer Data Modele				- 8 ×
<u>Eile Edit View Team Tools V</u>	/indow Help			
Browser	🗐 🖃 Welcome Page 🐣			lavigator × 📼
Designs [1]				
Control C	SQL Developer	Data Modeler	Version: 20.3.0.283.0710	
🔀 Multidimensional Models []	_			
Relational Models [1]     B -      B Relational_1				
🕀 ·· 🎦 Domains [1]	Designs		Getting Started	
···     ··				
Business Information	Recent Default Des	igns Directory	Get a Database Information Tutorials Demos	
🔜 Change Requests [] 🤯 Sensitive Types []			Tesision	
TSDP Policies []		<b>*</b> ***	Training	
		£ )	Generate Design	
		£330		
		44.v*		
	Welcome Page		Deleted Tele	
	Messages - Log		× •	
	2020-12-05 15:39:49 - Buil	ding Diagrams		
	2020-12-05 15:58:36 - Impo	orting DB Metadata		



👥 🖭 🔤 📑

10



• Oracle SQL Developer Data Modeler : Relational_1 (Untitled_1) • [dit View TamOoi: Window Help • [Jin 1 M (1) (M ) 등 중 → ④ ④ ③ ● ③ ④ ④ ★ ④ ④ ↓ ↓ ④ ● ● ○ ↓ ●		0
Velcane Page R Relational_1 (hritical_)		
Reference - Log Π Presença - Log Π	0) 4:22   12/5/2	

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

	Data Modeler - LimitER	- 0	×
Browser  Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Browser Brow			
		Navigator	×  🖬
All and all a	Image: Log       Boold and State State       Boold and State		<u>3</u>

