

FCIS MACHINE LEARNING RELATED TABLES Data
Model Release 14.7.4.0.0
Oracle FLEXCUBE Investor Servicing
[March] [2024]



FCIS MACHINE LEARNING RELATED TABLES Data Model
[March] [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 © [2007], [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. INTRODUCTION	1
2. FCIS MACHINE LEARNING RELATED TABLES	2
2.1. MLTB_FCIS_FUND_MASTER	2
2.2. MLTB_FCIS_INCH_PROCESSSTATUS	3
2.3. MLTB_FCIS_INCH_RISK_CAT	3
2.4. MLTB_FCIS_INCH_RISK_CAT_HIST	3
2.5. MLTB_FCIS_INCH_SEG	4
2.6. MLTB_FCIS_INCH_SEG_HIST	4
2.7. MLTB_FCIS_INVACC_CHURN	5
2.8. MLTB_FCIS_INVACC_CHURN_HIST	6
2.9. MLTB_MODEL_PERF_LOG	7
2.10. MLTW_FCIS_INCH_INVINFO_TEMP	7
2.11. MLTW_FCIS_INCH_JOBSTAT_TEMP	8
2.12. MLTW_FCIS_INCH_RATE_TEMP	8
2.13. MLTW_FCIS_INCH_TXNINFO_TEMP	8

1. INTRODUCTION

This document contains the data dictionary information of FCIS MACHINE LEARNING RELATED TABLES module. For each table that belongs to the module, FCIS ML, it provides the following information

- Table Description
- Constraints
- Column details that contain column name, data type and descriptions.

2. FCIS MACHINE LEARNING RELATED TABLES

2.1. MLTB_FCIS_FUND_MASTER

Description -

It contains the fund details for FCIS.

Constraints -

Primary Key	BUSINESS_ENTITY_ID,FUND_ID,REFNO
--------------------	----------------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Buss_Entity_Id
FUND_ID	VARCHAR2(6)	Fund Id
REFNO	VARCHAR2(16)	System Generated Reference Number
RUL_EFF_DT	DATE	Ruleeffectivedate
AUTH_STAT	VARCHAR2(1)	Auth_Stat
FUND_STRT_DT	DATE	Fundstartdate
FUND_NAME	VARCHAR2(60)	Fundname
FUND_NAME_SHRT	VARCHAR2(90)	Fundnameshort
FUND_CLASS	VARCHAR2(1)	Fundclass
FUND_TYPE	NUMBER(38)	Fundtype
FUND_FAMILY	VARCHAR2(6)	Fundfamily
FUND_BASE_CCY	VARCHAR2(3)	Fundbasecurrency
FUND_CTY	VARCHAR2(3)	Fundcountry
FISCAL_STRT_YEAR	DATE	Fiscalstartyear
FISCAL_END_YEAR	DATE	Fiscalendyear
AMC_ID	VARCHAR2(12)	Amcid
BROKER_ALLOWED	NUMBER(1)	Brokersallowed
REGISTRAR_ID	VARCHAR2(12)	Registrarid
TRUSTEE_ID	VARCHAR2(12)	Trusteeid
LATEST_RULE	NUMBER(1)	Latestrule
MIN_HOLD_PER	NUMBER	Minholdingperiod
PRIM_REGIS_ADD	VARCHAR2(255)	Primaryregaddress
FUND_TAX_ID	VARCHAR2(25)	Fundtaxid
FUND_ID_NUM	VARCHAR2(25)	Fundidentificationnumber
FUND_TICKER_SYM	VARCHAR2(25)	Fundtickersymbol
ALLOW_IRA_INVMNT	NUMBER(1)	Allowirainvestments
CUSTODIAN	VARCHAR2(12)	Custodian
FUND_SUSPENDED	NUMBER(1)	Fundsuspended
MIN_AMT_TAX_INDV	NUMBER(30,12)	Minamountfortaxindv
MIN_AMT_TAX_CORP	NUMBER(30,12)	Minamountfortaxidcor
RECORD_STAT	CHAR(1)	Record_Stat
EXISTING_FUND	NUMBER(1)	Existingfund
UMBRELLA_FUND	NUMBER(1)	Umbrellafund
HEDGE_FUND	VARCHAR2(1)	Hedgefund
FUND_ENABLED	NUMBER(1)	Fundenabled
COE_ENABLED	VARCHAR2(1)	Coenabled
LEGAL_ENTITY	VARCHAR2(12)	Legalentity
FUND_CLOS_DT	DATE	Fundcloseddate

PRED_FUND_SEG	NUMBER(2)	Predicted Fund Segment
---------------	-----------	------------------------

2.2. MLTB_FCIS_INCH_PROCESSTATUS

Description -

It is the master table which store the complete detail of each extract

Constraints -

Primary Key	REFNO,BUSINESS_ENTITY_ID
--------------------	--------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	BUSINESS ENTITY ID
REFNO	VARCHAR2(50)	Reference Number
EXTRACT_START_DT	DATE	Extract Start Date
EXTRACT_END_DT	DATE	Extract End Date
HAND_OFF_STATUS	NUMBER(1)	Hand Off Status
PROCESSAPPPDATE	DATE	Process App Date
LATESTPROCESS	NUMBER(1)	Latest Process
POST_PROCESS_STAT	NUMBER(1)	Post Process Status
CCY	VARCHAR2(3)	Currency
SILENT_PERIOD	NUMBER	Silent Period
ATTRITION_DT	DATE	Attrition Date
MODEL_STAT	NUMBER(1)	Model Status
MODEL_HIST_REFRESH	VARCHAR2(16)	Model History Refresh
MODEL_BUILD_LAST_RUN	DATE	Model bulid Last Run
MODEL_BUILD_STAT	VARCHAR2(16)	Model bulid Status
MODEL_EXEC_LAST_RUN	DATE	Model execute Last run
MODEL_EXEC_REFRESH	VARCHAR2(16)	Modelexecute Refresh

2.3. MLTB_FCIS_INCH_RISK_CAT

Description -

It contains the customer risk details for each extraction.

Constraints -

Primary Key	BUSINESS_ENTITY_ID,REFNO,RISK_CATEGORY
--------------------	--

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Entity Id
REFNO	VARCHAR2(50)	System Generated Reference Number
RISK_CATEGORY	NUMBER	Risk Category
INV_ACC_COUNT	NUMBER	No of Investor Account
PERCENTAGE	NUMBER	Risk Pcentage

2.4. MLTB_FCIS_INCH_RISK_CAT_HIST

Description -

It contains the purged customer risk details for each extraction.

Constraints -

Primary Key	BUSINESS_ENTITY_ID,REFNO,RISK_CATEGORY
--------------------	--

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Entity Id
REFNO	VARCHAR2(50)	System Generated Reference Number
RISK_CATEGORY	NUMBER	Risk Category
INV_ACC_COUNT	NUMBER	No of Investor Account
PERCENTAGE	NUMBER	Risk Percentage

2.5. MLTB_FCIS_INCH_SEG

Description -

It contains the customer segment details for each extraction.

Constraints -

Primary Key	BUSINESS_ENTITY_ID,REFNO,PRED_SEG
--------------------	-----------------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Entity Id
REFNO	VARCHAR2(50)	System Generated Reference Number
PRED_SEG	NUMBER	Predicted Segment
PER_DISTB	NUMBER	Predicted Distribution
REL_PER	VARCHAR2(100)	Relationship Period
FIR_INV_AMT	VARCHAR2(100)	First Invested Amount
TOT_INV_FUNDS_LCY	VARCHAR2(100)	Total Investment across funds in LCY
MIN_GAP_INV	VARCHAR2(100)	Median Gap between Investment
DAYS_LST_INV	VARCHAR2(100)	Days since last Investment

2.6. MLTB_FCIS_INCH_SEG_HIST

Description -

It contains the purged customer segment details for each extraction.

Constraints -

Primary Key	BUSINESS_ENTITY_ID,REFNO,PRED_SEG
--------------------	-----------------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Entity Id
REFNO	VARCHAR2(50)	System Generated Reference Number
PRED_SEG	NUMBER	Predicted Segment
PER_DISTB	NUMBER	Predicted Distribution
REL_PER	VARCHAR2(100)	Relationship Period
FIR_INV_AMT	VARCHAR2(100)	First Invested Amount
TOT_INV_FUNDS_LCY	VARCHAR2(100)	Total Investment across funds in LCY
MIN_GAP_INV	VARCHAR2(100)	Median Gap between Investment
DAYS_LST_INV	VARCHAR2(100)	Days since last Investment

2.7. MLTB_FCIS_INVACC_CHURN

Description -

This table contains the FCIS extracted and processed data for the ML engine

Constraints -

Primary Key	BUSINESS_ENTITY_ID,REFNO,INV_ACC
--------------------	----------------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Business Entity ID
INV_ACC	VARCHAR2(12)	Investment Account ID
REFNO	VARCHAR2(16)	System Generated Reference Number
INV_TYP	VARCHAR2(1)	Investor Type
INV_CAT	VARCHAR2(2)	Investor Category
RESIDENT	VARCHAR2(1)	Resident Status
AGE	NUMBER	Age of investor
LCL_AMC_DIST	VARCHAR2(12)	Local_AMC_Dist
DOM_CTRY	VARCHAR2(3)	DomicileCountry
NATION	VARCHAR2(15)	Nationality
INV_RISK_LVL	VARCHAR2(2)	InvestorRiskLevel
PRIM_INV_CCY	VARCHAR2(3)	PrimaryInvestmentCcy
REL_PER	NUMBER	last transaction date - firstinvestment date
FIR_INV_DT	DATE	Date of the 1st investment (buy)
FIR_INV_AMT	NUMBER	Gross amount of first investment(buy) transaction.
FIR_FUND_INV	VARCHAR2(16)	Fund Id of first investment(buy) transaction.
TOT_FUNDS	NUMBER	Total number of funds the customer has invested(buy)
MIN_INV_FUND_LCY	NUMBER	Minimum amount of investment(buy) the customer has across funds
MED_INV_FUND_LCY	NUMBER	Median amount of investment(buy) the customer has across funds
MAX_INV_FUND_LCY	NUMBER	Maximum amount of investment(buy) the customer has across funds
TOT_INV_FUNDS_LCY	NUMBER	Total amount of investment(buy) the customer has across funds
MIN_GAP_INV	NUMBER	Minimum gap period in days between investments(buy)
MED_GAP_INV	NUMBER	Median gap period in days between investments(buy)
MAX_GAP_INV	NUMBER	Maximum gap period in days between investments(buy)
LST_FUND_INV	VARCHAR2(16)	Last fundid the customer has invested as of today.
DAYS_LST_INV	NUMBER	date of extract-date of last transaction
MED_TXN_CCY	NUMBER	Median Number of Transaction Currency used in this investment account, considering transactions in each calendar year as a period/group.
MAX_TXN_CCY	NUMBER	Maximum Number of Transaction Currency used in this investment account, in any given year.
MST_INV_CCY	VARCHAR2(3)	Most used transaction currency - considering entire relationship duration.
MST_INV_CCY_CNT	NUMBER	Number of transactions with MST_INV_CCY - considering entire relationship duration.
CHURN_STAT	VARCHAR2(1)	ChurnStatus is set to 'Y' if Greatest(Days_Since_Last_Inv,Max_Gap_Period_Betwn_Inv) > 90
DAT_STRT_DT	DATE	Data collection start date

DAT_END_DT	DATE	Data collection end date
LST_FUND_INV_SEG	NUMBER(2)	LST_FUND_INV segment
FIR_FUND_INV_SEG	NUMBER(2)	FIR_INV_FUND segment
PRED_CHURN_STAT	VARCHAR2(1)	Predicted Churn Status
PRED_CHURN_PROB	NUMBER(5,4)	Predicted Churn Probability
PRED_INV_SEG	NUMBER(2)	Predicted segment
PRED_RISK_CATEGORY	VARCHAR2(16)	Risk Category

2.8. MLTB_FCIS_INVACC_CHURN_HIST

Description -

FCIS extracted data and the processed data for the ML engine

Constraints -

Primary Key	BUSINESS_ENTITY_ID,REFNO,INV_ACC
--------------------	----------------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Business Entity ID
INV_ACC	VARCHAR2(12)	Investment Account ID
REFNO	VARCHAR2(16)	System Generated Reference Number
INV_TYP	VARCHAR2(1)	Investor Type
INV_CAT	VARCHAR2(2)	Investor Category
RESIDENT	VARCHAR2(1)	Resident Status
AGE	NUMBER	Age of investor
LCL_AMC_DIST	VARCHAR2(12)	Local_AMC_Dist
DOM_CTRY	VARCHAR2(3)	DomicileCountry
NATION	VARCHAR2(15)	Nationality
INV_RISK_LVL	VARCHAR2(2)	InvestorRiskLevel
PRIM_INV_CCY	VARCHAR2(3)	PrimaryInvestmentCcy
REL_PER	NUMBER	last transaction date - firstinvestment date
FIR_INV_DT	DATE	Date of the 1st investment (buy)
FIR_INV_AMT	NUMBER	Gross amount of first investment(buy) transaction.
FIR_FUND_INV	VARCHAR2(16)	Fund Id of first investment(buy) transaction.
TOT_FUNDS	NUMBER	Total number of funds the customer has invested(buy)
MIN_INV_FUND_LCY	NUMBER	Minimum amount of investment(buy) the customer has across funds
MED_INV_FUND_LCY	NUMBER	Median amount of investment(buy) the customer has across funds
MAX_INV_FUND_LCY	NUMBER	Maximum amount of investment(buy) the customer has across funds
TOT_INV_FUNDS_LCY	NUMBER	Total amount of investment(buy) the customer has across funds
MIN_GAP_INV	NUMBER	Minimum gap period in days between investments(buy)
MED_GAP_INV	NUMBER	Median gap period in days between investments(buy)
MAX_GAP_INV	NUMBER	Maximum gap period in days between investments(buy)
LST_FUND_INV	VARCHAR2(16)	Last fundid the customer has invested as of today.
DAYS_LST_INV	NUMBER	date of extract-date of last transaction
MED_TXN_CCY	NUMBER	Median Number of Transaction Currency used in this investment account, considering transactions in each calendar year as a period/group.
MAX_TXN_CCY	NUMBER	Maximum Number of Transaction Currency used in this investment account, in any given year.

MST_INV_CCY	VARCHAR2(3)	Most used transaction currency - considering entire relationship duration.
MST_INV_CCY_CNT	NUMBER	Number of transactions with MST_INV_CCY - considering entire relationship duration.
CHURN_STAT	VARCHAR2(1)	ChurnStatus is set to 'Y' if Greatest(Days_Since_Last_Inv,Max_Gap_Period_Betwn_Inv) > 90
DAT_STRT_DT	DATE	Data collection start date
DAT_END_DT	DATE	Data collection end date
LST_FUND_INV_SEG	NUMBER(2)	LST_FUND_INV segment
FIR_FUND_INV_SEG	NUMBER(2)	FIR_INV_FUND segment
PRED_CHURN_STAT	VARCHAR2(1)	Predicted Churn Status
PRED_CHURN_PROB	NUMBER(5,4)	Predicted Churn Probability
PRED_INV_SEG	NUMBER(2)	Predicted segment
PRED_RISK_CATEGORY	VARCHAR2(16)	Risk Category

2.9. MLTB_MODEL_PERF_LOG

Description -

This table is used for logging the model build and execution process.

Constraints -

Primary Key	BUILD_DT_TM,USE_CASE,DATASET,PRODUCT,BUSINESS_ENTITY_ID
--------------------	---

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUILD_DT_TM	DATE	Build Date
USE_CASE	VARCHAR2(20)	Usecase
DATASET	VARCHAR2(20)	Dataset
PRODUCT	VARCHAR2(20)	Product
MODEL_ALGO	VARCHAR2(30)	Model Algorithm
MODEL_NAME	VARCHAR2(30)	Model Name
BRN_CODE	VARCHAR2(4)	Branch code
PRIM_PERF_MODE	VARCHAR2(20)	Primary preference mode
PRIM_PERF_VALUE	NUMBER(22,3)	Primary Preference Value
SEC_PERF_MODE	VARCHAR2(20)	Secondary preference mode
SEC_PERF_VALUE	NUMBER(22,3)	Secondary Preference Value
RUN_TIME	NUMBER(6)	Runtime
BUSINESS_ENTITY_ID	VARCHAR2(16)	Business Entity ID

2.10. MLTW_FCIS_INCH_INVINFO_TEMP

Description -

It store the investor details during extraction.

Constraints -

Primary Key	BUSINESS_ENTITY_ID,INV_ACC,REFNO
--------------------	----------------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
--------	-----------	-------------

BUSINESS_ENTITY_ID	VARCHAR2(16)	Entity Id
INV_ACC	VARCHAR2(12)	Investor Account
REFNO	VARCHAR2(16)	System Generated Reference Number
INVESTORTYPE	VARCHAR2(1)	Investor Type
INVESTORCATEGORY	VARCHAR2(2)	Investor Category
RESIDENTSTATUS	VARCHAR2(1)	Resident Status
AGE	NUMBER	Age
LOCAL_AMC_DIST	VARCHAR2(12)	Local AMC/Distributor
DOMICILECOUNTRY	VARCHAR2(3)	Domicile Country
NATIONALITY	VARCHAR2(15)	Nationality
INVESTORRISKLEVEL	VARCHAR2(2)	Investor Risk Level
PRIMARYINVESTMENTCCY	VARCHAR2(3)	Primary Investment Currency
JOBGROUP	NUMBER	Job Group

2.11. MLTW_FCIS_INCH_JOBSTAT_TEMP

Description -

It store the job details during extraction

Constraints -

Primary Key	BUSINESS_ENTITY_ID,JOBGROUP,REFNO
--------------------	-----------------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Entity Id
JOBGROUP	NUMBER	Job Group
REFNO	VARCHAR2(16)	System Generated Reference Number
STATUS	CHAR(1)	Job Status

2.12. MLTW_FCIS_INCH_RATE_TEMP

Description -

It store the rate during extraction

Constraints -

Primary Key	BUSINESS_ENTITY_ID,CCY
--------------------	------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Entity Id
CCY	VARCHAR2(3)	Currency
RATE	NUMBER(10,2)	Currency Rate

2.13. MLTW_FCIS_INCH_TXNINFO_TEMP

Description -

It store the transaction details during extraction

Constraints -

Primary Key	BUSINESS_ENTITY_ID,INV_ACC,REFNO
--------------------	----------------------------------

Column Descriptions -

COLUMN	DATA TYPE	DESCRIPTION
BUSINESS_ENTITY_ID	VARCHAR2(16)	Entity Id
INV_ACC	VARCHAR2(16)	Investor Account
REFNO	VARCHAR2(16)	System Generated Reference Number
FIRST_INVESTMENT_DATE	DATE	First Investment Date
FIRST_INVESTMENT_AMOUNT	NUMBER	First Investment Amount
FIRST_INVESTED_FUND	VARCHAR2(16)	First Invested Fund
TOTAL_NUMBER_OF_FUNDS	NUMBER	Total Number of Funds Invested
MIN_INVEST_ACROSS_FUNDS_LCY	NUMBER	Minimum Investment across Fund in LCY
MED_INVEST_ACROSS_FUNDS_LCY	NUMBER	Median Investment across Fund in LCY
MAX_INVEST_ACROSS_FUNDS_LCY	NUMBER	Maximum Investment across Fund in LCY
TOT_INV_ACROSS_FUNDS_LCY	NUMBER	Total Investment across funds in LCY
MIN_GAP_PERIOD_BETWN_INV	NUMBER	Minimum Gap between Investment
MED_GAP_PERIOD_BETWN_INV	NUMBER	Median Gap between Investment
MAX_GAP_PERIOD_BETWN_INV	NUMBER	Maximum Gap between Investment
LAST_FUND_INVESTED	VARCHAR2(16)	Last Invested Fund
DAYS_SINCE_LAST_INV	NUMBER	Days since last Investment
MEDIAN_NUMBER_OF_TXNCCY	NUMBER	Median number of Transaction Currency
MAX_NUMBER_OF_TXNCCY	NUMBER	Maximum number of Transaction Currency
MOST_INV_CCY	VARCHAR2(3)	Most Invested Currency
MOST_INV_CCY_COUNT	NUMBER	Most Invested Currency Count
RELATIONSHIPDURATION	NUMBER	Relationship Duration

<End of document>