

Data Sanity-Check Results Handbook

Oracle Financial Services Lending and
Leasing

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Purpose statement

This document provides an overview of Data Sanity-Checks provided by Oracle Financial Services Lending and Leasing. It is intended solely to help with detailed information of Data Sanity-Checks for analysis and to plan your I.T. projects.

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Table of contents

Purpose statement	2
Disclaimer	2
Introduction	4
Purpose	4
DSR Scheduling and Execution	4
Pre-requisites	4
Revision Control	4
Procedures in DSR Batch Jobs	5
Sequence and Frequency of DSR Batch Jobs	11
Sequence of DSR Batch Jobs	11
Frequency of DSR Batch Jobs	11
How to Execute DSR Batch Jobs	12
Via Job Scheduler	12
Via Application Interface	13
View Data Sanity-Check Results	13

Introduction

Data Sanity-Check Results or DSR are scripts with specific procedures. These scripts are executed by batch jobs to check for any mismatch in the customer data maintained in production to the kind/type of data that can be handled by Oracle Financial Services Lending and Leasing application.

Purpose

Sanity check is a key factor in the data-wrangling process when data discrepancy issues exist. Identifying, analyzing and resolving the issues can help for optimum functioning of the system and reduce downtime specifically during backend processing of data. Though sanity checks helps to identify accounts with mismatch in data, it does not report all production issues.

DSR Scheduling and Execution

DSR scripts provided by OFSLL can be used to pre-validate accounts data before migration and even after migration when new accounts are on-boarded.

DSR scripts are handled by specific batch jobs defined in OFSLL and executed by the Job Scheduler based on pre-set frequency and/or from User Interface. The following sections provide detailed information on the same.

Pre-requisites

Following are the pre-requisites while validating accounts data with DSR:

- The required Seed Data for DSR batch jobs are pre-configured by OFSLL during the installation and can be directly executed. Contact OFSLL support if SET-DSR jobs are not available in Batch Job Sets.
- Data Sanity check procedures are supported from OFSLL release 14.10.0.0.0 onwards only.
- By default, the frequency of DSR batch jobs are configured to run 'DAILY' and can be further configured by your system administrator based on requirement. However, it is recommended to run the DSR checks once in a month.
- By default, the DSR batch jobs are configured for ALL Company and Branch. Based on requirement, the same has to be customized for individual Company-Branch combinations.

Revision Control

SL	VERSION #	RELEASE DATE	UPDATES
1	1.1	June 2023	Initial version of the document detailing the DSR feature and sequence of execution in OFSLL.
2	1.2	July 2023	Detailed some of the sanity check procedures and the purpose of the same.
3	1.3	March 2024	Enriched more procedures to the list to have a total of 79 items.
4	1.4	May 2024	Added one more DSR (80 th item) and introduced a column 'APPLICABLE FOR SERVICING OR MIGRATAION OR BOTH' against each data sanity check procedure.

Procedures in DSR Batch Jobs

The below table indicates the list of sanity check procedures with their purpose / description.

The below list is iterative and will be enriched during subsequent updates. Also, there is a provision in the system to skip and execute only the required procedures as per your requirement. To do so, set the option as **Yes/No** against the particular sanity check procedure in 'dsrprc_em_100_01.pks' file available in <ofsl install directory>/infrastructure/packages/dsr.

SL	PROCEDURE	PURPOSE / DESCRIPTION	APPLICABLE FOR SERVICING OR MIGRATION OR BOTH
1	VALIDATE_MISSING_GLTXNS	To check for accounts where the Transactions Codes were missing or NOT setup properly in GL.	Servicing and Migration
2	ACC_DUE_DT_NEXT_NULL	To check for accounts where the Next Due Date is MISSING/NULL.	Migration
3	VALIDATE_PAYMENT	To check for accounts if there is repayment mismatch between number of payments and total term.	Migration
4	ACC_DUE_DLQ_VS_ADH_BALANCE	To check for accounts with mismatch between Total Due* and Due Balance in Due Date History. Here * indicates Total Due includes current due & excludes fees AND expenses.	Servicing
5	ACC_RECEIVABLE_VS_ADV_BALANCE	To compare ACCOUNT RECEIVABLE BALANCE with ADVANCE BALANCE in account balances. This procedure is applicable for Loan Account Only.	Servicing
6	VALIDATE_ACCOUNTS	This procedure performs the following functions: 1. To check SCRA for non-primary customers but SCRA accounts 2. To check if account rate run date next (ACC_RAT_RUN_DT_NEXT) is defined for matured accounts 3. To check if there are accounts with NO BILL IN THE PAST (LTC RUN DT - Late Charge Run Date) 4. To check if account delinquency date (ACC_DLQ_DT) is NOT in sync with delinquency condition open date 5. To check if the paid ahead but delinquency amount is greater than zero 6. To check if the ACC_DUE_DT_OLDEST date does not match with DUE DATE HISTORY for long past due accounts 7. To check if the account due delinquency amount (ACC_DUE_DLQ_AMT) is missing for delinquency accounts	Servicing and Migration

SL	PROCEDURE	PURPOSE / DESCRIPTION	APPLICABLE FOR SERVICING OR MIGRATION OR BOTH
		8. To check if there are accounts with Credit Balance 9. To check if the account last extension date (ACC_EXTN_DT_LAST) is NOT NULL with NO extensions PAID AHEAD with Payment Date in Future	
7	VALIDATE_BILLING	To check for accounts where billing did not happen on the first payment date AND/OR accounts for which billing was missed for a particular due date.	Servicing
8	VALIDATE_DELQ_ACCPAID	To check for accounts where DELINQUENT DAYS = 0 and having 5 Due Buckets with due amounts but the PAID AMOUNTS are populated as 0.	Servicing and Migration
9	VALIDATE_MATER_ACC_STMT	To check for accounts where the Billing Cycle or Due Day is same between Master and Associated Account with Statement Consolidation Flag set to Y.	Servicing
10	PAID_ACCS_WITH_ACC_OUTSTANDING	To check for accounts which are paid but still has outstanding balance i.e. ACCOUNT RECEIVABLE NOT MATCHING WITH ADV BALANCES.	Servicing
11	VALIDATE_ACC_TXN	To check for accounts with mismatch in OLDEST DUE DATE.	Servicing
12	VALIDATE_PMTS_DUES_ALLOCATION	To check for accounts where the payment is received and balance is updated but no dues are allocated to dues buckets.	Servicing and Migration
13	VALIDATE_SCRA	This procedure performs the following functions: 1. To check for customers having both SCRA and NON-SCRA accounts 2. To check for SCRA customers who do not have a repayment schedule	Servicing and Migration
14	VALIDATE_DELINQUENCY	To check for accounts where delinquency is not NULL for non-delinquent accounts.	Servicing
15	ACC_MATURITY_DT_CUR_NULL	To check for accounts where the Maturity Date is MISSING/NULL.	Migration
16	VALIDATE_BALANCE	To check for accounts having negative balances in TRANSACTION TYPE CODE.	Servicing and Migration
17	VALIDATE_NON_MATURED_ACCOUNTS	To check for non-matured accounts where the DDT RUN DATE NEXT is set DT_MAX.	Servicing and Migration
18	VALIDATE_BANKRUPTCY	To check for accounts with multiple bankruptcy records for same customer.	Servicing and Migration
19	VALIDATE_AMTDUE_OUTSTANDINGBAL	To check for accounts where Amount Due is greater than the Outstanding Balance.	Servicing and Migration

SL	PROCEDURE	PURPOSE / DESCRIPTION	APPLICABLE FOR SERVICING OR MIGRATION OR BOTH
20	VALIDATE_DUE_DATES	To check for accounts with duplicate Due Dates.	Migration
21	VALIDATE_BKRP_IND	To check for accounts where the Bankruptcy indicator (CUS_BANKRUPTCY_IND) = N even if bankruptcy record EXISTS for that customer.	Servicing and Migration
22	VALIDATE_TELECOM	To check for accounts which does not have active telecom details.	Migration
23	VALIDATE_LTCRUNDATE_BACKDATE	To check for accounts where the LTC (Late Charge) Run date Next is less than Back Dated Date.	Servicing and Migration
24	VALIDATE_POOL_PIPE	To check for valid securitization accounts in the pool for processing.	Servicing and Migration
25	VALIDATE_DUP_DUEDATE	To check for accounts having duplicate due dates.	Servicing and Migration
26	ACC_DUE_DAY_CUR_VS_MATDUE_CUR	To check for accounts where the MATURITY DUE DAY is not matching with CURRENT DUE DAY.	Migration
27	VALIDATE_ITM	To check for accounts with negative itemizations.	Servicing and Migration
28	VALIDATE_BILL_AFTER_MATURITY	To check for accounts where billing and late charge are posted after maturity date.	Servicing
29	VALIDATE_REPOSSESSION	To check for accounts with unsecured collateral type where repossession is not applicable.	Servicing and Migration
30	VALIDATE_ACC_DLQ_COUNTERS	To check for accounts which are delinquent in life time.	Servicing and Migration
31	VALIDATE_FIRST_BILL_PD_AHEAD	To check for accounts where due amount is paid before the 1st Bill date.	Migration and Servicing
32	VALIDATE_ACC_DECEASED_CUSTOMER	To check for accounts where atleast one or more of the customer(s) is deceased.	Migration
33	VALIDATE_ADDRESS	To check for accounts which has no active address maintained.	Servicing
34	VALIDATE_ACC_BAL	This procedure performs the following functions: 1. To check if CTD net balance is equal to YTD net balance 2. To check if the account balances are negative 3. To check if fee balance exists.	NA
35	VALIDATE_DELQ_ACCBAL	To check for accounts which are delinquent with any outstanding fees.	Servicing and Migration

SL	PROCEDURE	PURPOSE / DESCRIPTION	APPLICABLE FOR SERVICING OR MIGRATION OR BOTH
36	VALIDATE_DELQ_COND	To validate if the Delinquency Condition is NOT in sync with Delinquency indicator (ACC_DLQ_IND). This check is required for accounts with ACC_DUE_DT_OLDEST = ACC_CONVERSION_DT (with Grace Days = 0).	Servicing and Migration
37	VALIDATE_DUP_PROMISES	To check for accounts with any duplicate promises.	Servicing and Migration
38	VALIDATE_MULTIPLE_BKRP_COND	To check for accounts where there are more than one current bankruptcy condition for the same customer.	Servicing and Migration
39	VALIDATE_NEGATIVE_DELINQUENCY	To check for accounts with negative delinquency counters.	Servicing and Migration
40	VALIDATE_PAID_STAUS	To check for accounts where the Account status (ACC_STATUS_CD) = PAID and Account indicator (ACC_OPEN_IND) = N.	Servicing and Migration
41	VALIDATE_TOTAL_DUE	To check for accounts where the Total Due Amount is greater than Total Paid Amount in Due Date Buckets.	Servicing and Migration
42	VALIDATE_VOID_CLOSEDDT	To check for accounts where the close date (ACC_CLOSE_DT) for VOID accounts is DT_MAX.	Servicing and Migration
43	VALIDATE_VOID_STAUS	To check for accounts where account status is VOID and account open indicator is N.	Servicing and Migration
44	VALIDATE_FLC_AFR_CHGOFF	To check for accounts with any Fee Late Charge (FLC) exist after CHARGEOFF transactions.	Servicing
45	VALIDATE_VOID_ACC_OUTSTD_BAL	To check for accounts with VOID status and having outstanding balances.	Servicing
46	VALIDATE_ADH_BALANCE	To check for accounts having mismatch between Total Due including current due (excluding fees and expenses) and Due Balance in due Date History.	Servicing
47	VALIDATE_FUTURE_DUE_DATES	To check for accounts with Due Date 2 or 3 or 4 or 5 are in future.	Migration
48	VALIDATE_ACC_RECEIVABLE	To compare account receivable balance with advance balance in account balances of loan accounts only.	Servicing
49	VALIDATE_PAID_ACCS_OUTSTANDING	To check for accounts with outstanding balance on the account.	Servicing
50	VALIDATE_ACC_MATURITY_DT	To check for accounts if maturity date is in sync with first payment date and terms.	Migration
51	VALIDATE_NEXT_DUE_RUN_DT	To check for accounts where next due date is less than next run date.	Migration

SL	PROCEDURE	PURPOSE / DESCRIPTION	APPLICABLE FOR SERVICING OR MIGRATION OR BOTH
52	VALIDATE_ACC_MAT_DUE_DAY	To check for accounts where maturity date is in sync with current due day.	Migration
53	VALIDATE_TOT_ACC_DUE_AMOUNT	To check for accounts where the total account due amount is greater than account due amount paid.	Migration
54	VALIDATE_ACC_MATURITY_DATE	To check for accounts where the maturity date is missing or null.	Migration
55	VALIDATE_NEXT_DUE_DATE	To check for accounts where the next due date is missing or null.	Migration
56	VALIDATE_ACC_OUTSTD_AMT_LN	To check for accounts where the outstanding amount is 0 for an active loan account.	Migration
57	VALIDATE_EXCESS_PAYMENT	To check for accounts where there is excess payment even though the account status is PAID.	Servicing
58	VALIDATE_CUSTOMER_REFUND	To check for accounts if customer refund exists for the account which is in PAID status.	Servicing
59	VALIDATE_PAYMENT_SCHEDULE	To check for accounts if the current payment amount is not sync with repayment schedule.	NA
60	VALIDATE_JOINT_ACCOUNT	To check for accounts where there are more than one active customer without joint indicator set to Y.	Migration
61	VALIDATE_EMPLOYMENT	To check for accounts with active employments.	NA
62	VALIDATE_STATEMENT	To check for accounts with consolidation flag mismatch between contract and accounts.	Migration
63	VALIDATE_ACC_SUMM_ADH_MISMATCH	To check for accounts with mismatch between account summary and Account Due Date History (ADH).	Servicing
64	VALIDATE_PAYOFF_CTD_MISMATCH	To check for accounts with any mismatch in Payoff and Contract to Date (CTD) value.	Servicing
65	VALIDATE_DUE_OTHER_MISMATCH	To check for accounts having dues other than amount non-billable balance mismatch.	Servicing
66	VALIDATE_CREDIT_REFUND_MISMATCH	To check for accounts where after the credit refund is done, the outstanding amount is not reducing.	Servicing and Migration
67	VALIDATE_MEA_EXCESS_ALLOCATIONS	To check for accounts having list of transactions where MEA OUT happened but MEA IN did not happen. Here MEA is Master Excess Allocation.	Servicing

SL	PROCEDURE	PURPOSE / DESCRIPTION	APPLICABLE FOR SERVICING OR MIGRATION OR BOTH
68	VALIDATE_NEGATIVE_CTD_VALUE	To check for accounts where total balance is negative, and the account has excess credit.	Servicing
69	VALIDATE_DUPLICATE_TXNS	To check for accounts with duplicate transactions.	Servicing
70	VALIDATE_OUTSTANDING_LESS_DLQ	To check for accounts where the account outstanding amount is less than the Delinquent amount.	Migration
71	VALIDATE_DOFD_DLQ_ACC	To check for accounts where the account is delinquent but account credit bureau delinquent date (ACC_CRB_FIRST_DLQ_DT) is not null.	Migration
72	VALIDATE_CONV_DT_LESS_DDT_NEXT	To check for accounts where the account DUE DATE NEXT is less than conversion date.	Migration
73	VALIDATE_FCBC_SKIP_MONTH	To check for accounts where the FCBC (Fee Cycle based charges) is skipped/Not posted on monthly basis.	Servicing
74	VALIDATE_POINTS_MISMATCH	To check for accounts having mismatch in Assets Billing Points.	Mismatch
75	VALIDATE_OLDEST_DUE_DATE	To check for accounts where the DUE DATE OLDEST is not equal to MIN ADH_DUE_DT (ADH - Account Due Date History).	Migration
76	VALIDATE_NBR_OF_PAID_TRM	To check for accounts where the total number of paid term in UI is not in sync with due date history.	Migration and Servicing
77	VALIDATE_MEA_INCONSIS_ON_MASTR	To check for master accounts with inconsistent MEA (Master Excess Allocation).	Servicing
78	VALIDATE_K2METRO_SEGMENT	To check for Metro II accounts with improper reporting of metro K2 segment.	Migration
79	VALIDATE_MIG_BALANCE	To check for migrated accounts having balance mismatch.	Servicing
80	VALIDATE_TXN_DT	To check whether any transactions are available before the conversion date. If yes, then such accounts are to be excluded from migrating to OFSLL.	Migration

Sequence and Frequency of DSR Batch Jobs

Sequence of DSR Batch Jobs

The sanity check procedures are available in SET-DSR Batch Job Set and are contained in two batch jobs - DSRPRC_BJ_100_01 and DSRPRC_BJ_100_02.

These batch jobs are to be executed in the following order:

First run the DSRPRC_BJ_100_02 under SET-DSR job set and only after successful completion, run the second batch job DSRPRC_BJ_100_01.

The order is pre-defined as 0 and 1 in the sequence as indicated below. In OFSLL application, navigate to Dashboard > System Monitor > Batch Jobs tab to view the DSR batch jobs.

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Welcome ABSHEKAR Sign Out [DEV]

System Monitor x Close

Batch Jobs Jobs Services Database Server Log Files Parked Transactions Users JMS Queues Events

Batch Job Sets

View Format Freeze Detach Wrap Company US01 Force Re-submit Job Set

Company	Set Code	Job Set Description	Status	Frequency	Frequency Value	Start Time	Enabled	Critical	Last F
US01	SET-DSR	DATA SANITY CHE...	COMPLETED	DAILY	DAILY	20:55 PM	Y	N	02/12

Batch Jobs

View Format Freeze Detach Wrap Re-submit Job

Seq Job Time	Job Code	Status	Job Description	Threads	Commit Count	Errors Allowed	Weekend	Holide
0 PROCEDURE	DSRPRC_BJ_100_02	COMPLETED	DATA SANITY CHECK INITIAL DATA PREPARATION	1	10	10	Y	Y
1 PROCEDURE	DSRPRC_BJ_100_01	COMPLETED	DATA SANITY CHECK	1	10	10	Y	Y

Batch Job Threads

View Format Freeze Detach Wrap

Thread	Status	Errors	Records	Trace Level	Enabled
1	IDLE	0	0	0	Y

Request Details

View Format Freeze Detach Wrap

Request Type	Status	Start Dt	End Dt	Run Start Dt	Run End Dt	Proce
PROCEDURE	COMPLETED	02/12/2023 08:55:47 PM	12/31/4000 12:00:00 AM			04/20
PROCEDURE	COMPLETED	02/11/2023 08:55:41 PM	12/31/4000 12:00:00 AM	02/11/2023 08:55:41 PM	02/11/2023 08:55:43 PM	04/20

Request Results

Frequency of DSR Batch Jobs

The frequency of the DSR batch jobs are to be configured based on requirement. However, by default in day zero setup, the frequency is set to 'DAILY'.

1. In OFSLL application, navigate to Setup > Administration > System > Batch Jobs screen.
2. In Batch Job Sets section, filter and select the SET-DSR batch job.
3. Click Edit and set the Frequency as indicated below. Save the record after update.

Batch Job Sets

Company	Set Code	Job Set Description	Frequency	Frequency value	Start Time	Critical	Enabled
US01	SET-DSR	DATA SANITY CHECK	DAILY	DAILY	20:55 PM	N	Y

Batch Job Threads

Thread	Job Description	Threads	Commit Count	Errors Allowed
1	DATA SANITY CHECK INITIAL DATA PREPARATION	1	10	10
01	DATA SANITY CHECK	1	10	10

How to Execute DSR Batch Jobs

DSR batch jobs can be executed either from Job Scheduler or by Application Interface.

Via Job Scheduler

The job scheduler automatically processes the scheduled jobs based on 'Next Run Date' defined in [Batch Job Set](#) definition. The Services screen allows you to track and maintain all the system's processing services including batch job scheduler. System administrator can start or stop a service on this screen using the action buttons respectively.

To stop, start or refresh a processing service, click Dashboard > Dashboard > System Monitor > Services.

Services

Service	Company	Branch	Description	Status
CSV	ALL	ALL	CREDIT BUREAU SERVICE (EFX TEST FILES)	STOPPED
CSV	ALL	ALL	CREDIT BUREAU SERVICE (EXP TEST FILES)	STOPPED
CSV	ALL	ALL	CREDIT BUREAU SERVICE (TUC TEST FILES)	STOPPED
ESV	ALL	ALL	EVENT SERVICE	RUNNING
JSC	ALL	ALL	JOB SCHEDULER	STOPPED
JSV	ALL	ALL	JOB SERVICE	RUNNING

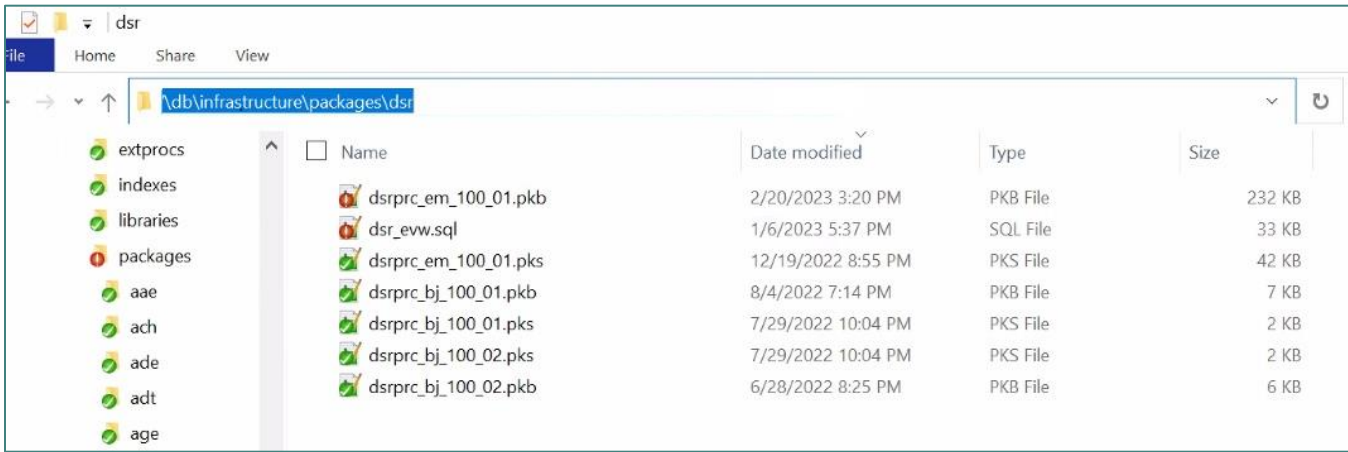
Via Application Interface

1. In OFSLL application, navigate to Dashboard > System Monitor > Batch Jobs tab.
2. Select the required batch job based on the order defied in 'Seq' column. For more details, refer to [Sequence of DSR Batch Jobs](#) section.
3. Click **Re-Submit Job**.
4. Once done, verify the execution details in Request Results section.

View Data Sanity-Check Results

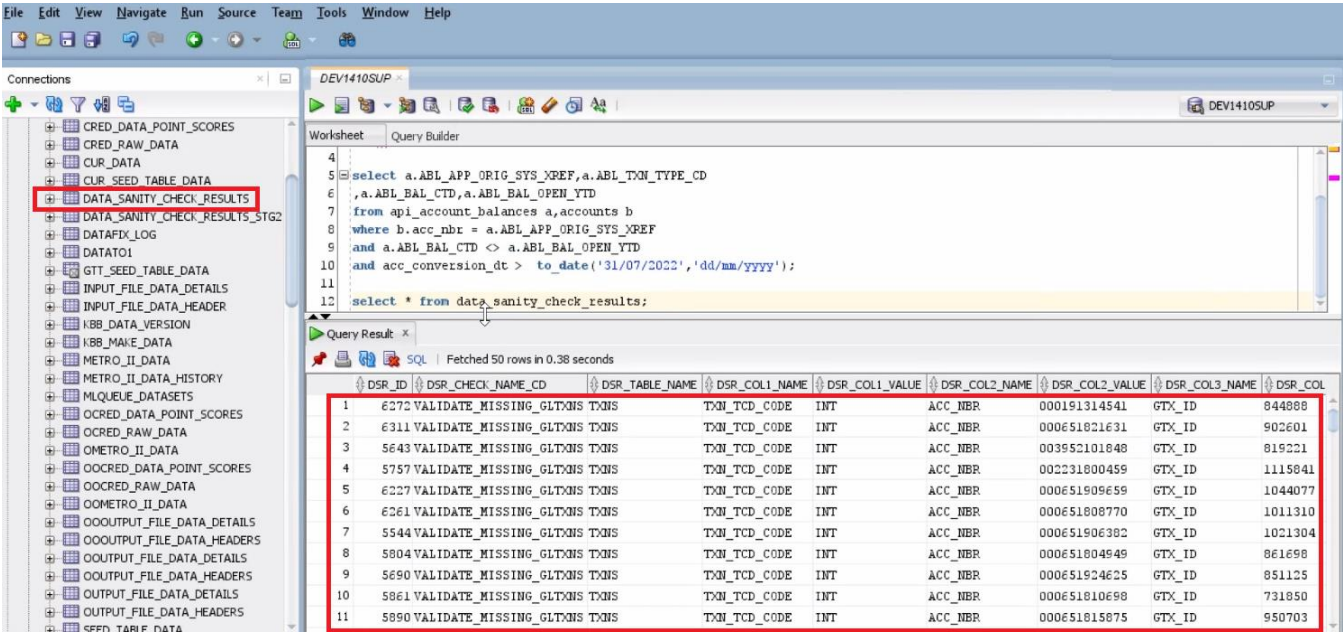
After the Data Sanity-Check validation is complete, the results are stored in the following location:

<<OFSLL HOME>>/db/infrastructure/packages/dsr



Name	Date modified	Type	Size
dsrprc_em_100_01.pkb	2/20/2023 3:20 PM	PKB File	232 KB
dsr_evw.sql	1/6/2023 5:37 PM	SQL File	33 KB
dsrprc_em_100_01.pks	12/19/2022 8:55 PM	PKS File	42 KB
dsrprc_bj_100_01.pkb	8/4/2022 7:14 PM	PKB File	7 KB
dsrprc_bj_100_01.pks	7/29/2022 10:04 PM	PKS File	2 KB
dsrprc_bj_100_02.pks	7/29/2022 10:04 PM	PKS File	2 KB
dsrprc_bj_100_02.pkb	6/28/2022 8:25 PM	PKB File	6 KB

All the validated data can be accessed by querying the DATA_SANITY_CHECK_RESULTS table or dsr_dsr_evw view for further analysis.



```
select a.ABL_APP_ORIG_SYS_XREF,a.ABL_TXN_TYPE_CD
,a.ABL_BAL_CTD,a.ABL_BAL_OPEN_YTD
from api_account_balances a,accounts b
where b.acc_nbr = a.ABL_APP_ORIG_SYS_XREF
and a.ABL_BAL_CTD <> a.ABL_BAL_OPEN_YTD
and acc_conversion_dt > to_date('31/07/2022','dd/mm/yyyy');

select * from data_sanity_check_results;
```

DSR_ID	DSR_CHECK_NAME_CD	DSR_TABLE_NAME	DSR_COL1_NAME	DSR_COL1_VALUE	DSR_COL2_NAME	DSR_COL2_VALUE	DSR_COL3_NAME	DSR_COL3_VALUE
1	6272 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	000191314541	GTX_ID	844888	
2	6311 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	000651821631	GTX_ID	902601	
3	5643 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	003952101848	GTX_ID	819221	
4	5757 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	002331800459	GTX_ID	1115841	
5	6227 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	000651909559	GTX_ID	1044077	
6	6261 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	000651808770	GTX_ID	1011310	
7	5544 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	000651906382	GTX_ID	1021304	
8	5804 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	0006518004949	GTX_ID	861698	
9	5690 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	000651924625	GTX_ID	851125	
10	5861 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	000651810698	GTX_ID	731850	
11	5890 VALIDATE_MISSING_GLTXNS TXNS	TXN_TCD_CODE	INT	ACC_NBR	000651815875	GTX_ID	950703	

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