**Task 1**  
  
Let's imagine that you got a task from you Manager to reconcile 31.07.2023 user deposit Bank Statements (SnowPay provider) to the internal systems of the company (old and new).Balance per bank on the 01.08.2023 00:00:00 (Partner timezone, local) is 271,628,482 BRL (Brazilian reals)  
  
Bank statements is a most correct data, means how much money we really received. You can search paid transactions between two admin panels (old and new). Transactions are not duplicated.

Please find, calculate and present the following discrepancies:  
  
1) What status has a transaction in the admin panel: *Success, Success (activated), Success (updated)* etc.   
Some transactions can be wrongly declined. Please add mapping where you find a trnx.

2) What amount was approved in admin panel, how much difference with the bank statement?  
Amount approved in both admin panels is 130 601 732,25 BLR, for the same matching transactions from Bank statement amount is equal to 130 302 555,00 which results in -299 177,25 difference between panels and statement.   
3) Transactions, that you will not find, were not converted in any admin panel, and we call them “non authorized transactions” for the further converting.  
4) Find any other discrepancies that you can.

I found discrepancies in transaction number format (Ill attach excel with all transaction numbers which were not matching numeric and standard format in the bank statement and admin panels as well). Also there is discrepancy between wrongly declined transaction amount in admin and declined table for below transaction numbers:

|  |
| --- |
| Transaction ID |
| 14318611423664 |
| 14318397042738 |
| 14318877490328 |

Adding to the above transactions, below transaction list were succeeded and declined at the same time:

|  |
| --- |
| 14319244769635 |
| 14318611423664 |
| 14318397042738 |
| 14318978355714 |
| 14318988601735 |
| 14318877490328 |
| 14318258001444 |

Also those 2 transactions found in AdminNew panel are in non numeric format, but we can find them on the statement as a transactions with number without “-2” suffix:  
14321292282845-2

14321288771122-2

I didn’t take them under consideration since they weren’t under a SnowPay provider.

5) Please, create Balance summary for Statuses and Total Amounts across different Admin panels.

Summary for transactions that ended up with success:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mapped Status | Success | | | |
|  |
| **Sum of BankAmount** | **Sum of Amount (Admin New Table)** | **Sum of Amount (Admin Old Table)** | **Sum of Amount (Declined Table)** | **Sum of BankVsAdminTablesDiff** |
| **130 302 555,00** | **4 950 764,25** | **125 650 968,00** |  | **-299 177,25** |

Success and declined:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mapped Status | Success and Declined | | | |
|  |  |  |  |  |
| **Sum of BankAmount** | **Sum of Amount (Admin New Table)** | **Sum of Amount (Admin Old Table)** | **Sum of Amount (Declined Table)** | **Sum of BankVsAdminTablesDiff** |
| **19 786,50** |  | **19 786,50** | **18 450,00** | **1 336,50** |

Not active and declined:

|  |  |  |  |
| --- | --- | --- | --- |
| Mapped Status | Not active and declined | | |
|  |  |  |  |
| **Sum of BankAmount** | **Sum of Amount (Admin New Table)** | **Sum of Amount (Admin Old Table)** | **Sum of BankVsAdminTablesDiff** |
| 8 503,50 |  | 8 503,50 | **0,00** |

Not active:

|  |  |  |  |
| --- | --- | --- | --- |
| Mapped Status | Not active | | |
|  |  |  |  |
| **Sum of BankAmount** | **Sum of Amount (Admin New Table)** | **Sum of Amount (Admin Old Table)** | **Sum of BankVsAdminTablesDiff** |
| 474 702,00 |  | 474 702,00 | **0,00** |

Non authorized. Just a remark, I filtered declined table with SnowPay only provider, so this amount of declined transactions correspond to SnowPay provider declined transactions:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mapped Status | non authorized transaction | | | |
|  |  |  |  |  |
| **Sum of BankAmount** | **Sum of Amount (Admin New Table)** | **Sum of Amount (Admin Old Table)** | **Sum of Amount (Declined Table)** | **Sum of BankVsAdminTablesDiff** |
| **140 727 620,10** |  |  |  | **140 727 620,10** |

**Task 2**

Provider sent you a weird and unusable Bank Statement, but this is everything you have. You need to separate Transaction ID numbers, usually they start with numbers 539. Please put them in a separate column.

I identified that unique transaction numbers consist of 12 digits, so I created a function in python which will go through string, search appearance of 539% and return the 12 digit number from inputted string which will start from 539%. In Task2Resolved.xlsx file you will find extracted transaction numbers.