A2 2022-3 Transaction PL/SQL

**Due date BEFORE Friday midnight of December 2, 2022**

**NO LATE ASSIGNMENTS will be accepted.**

**You need to work on this before the deadline so that submission problems are avoided such as your system or Seneca's fails, or you have ill health. Remember as a group the others can take over responsibility. If you are not using a group then it is solely your own responsibility.**

**This is a group assignment to maximum of 6 people from class DBS311zee. Only one submission per group. All members of the group will be in the commented section of the script and will contain, name, student id and oracle id.**

**NOTE: Changes may be made to this assignment and will be communicated to you in time by email.**

The script is to me submitted in a text file and not SQL file or any other type as I will run it.

Name the file yourname.txt == of course replace the yourname with the name of the person who submits on behalf of your group

**Instructions**

In simplified form, you are going to be producing a script. The script will create 2 tables, load the 2 tables with data and then using PL/SQL it will process those 2 tables and with 2 SQL statements produce the resulting output for the 2 processed tables.

The script must run completely and accurately to produce the proper output. A script that does not run properly will be considered incomplete and needs to be resubmitted and be complete. No marks for resubmission. Get it right the first time, please.

The script will create 2 tables

Table custxx where xx is replaced with your Oracle id

Table transxx where xx is replaced with your Oracle id

**CUSTXX**

Into custxx you will copy 2 columns from your customers table, cust\_no and phone\_no, but the new columns will be called cust\_no, and balance. Only copy customers with cust\_no up to 1050.

**TRANSXX**

This table needs to be created and contains the following columns.

Table

Description automatically generated

It is loaded with the following data:

The status column will be left blank or NULL

|  |  |  |  |
| --- | --- | --- | --- |
| 1001 | u | 213 | 2022-10-29 |
| 1002 | u | 1002 | 2022-10-29 |
| 1003 | u | 333 | 2022-10-30 |
| 1004 | u | 4000 | 2022-10-30 |
| 1002 | u | 2000 | 2022-10-31 |
| 1006 | u | 600 | 2022-10-31 |
| 1010 | i | 213 | 2022-10-29 |
| 1011 | i | 1002 | 2022-10-29 |
| 1100 | i | 333 | 2022-10-30 |
| 1012 | d |  | 2022-10-30 |
| 1013 | i | 2000 | 2022-10-31 |
| 1014 | x | 600 | 2022-10-31 |

In the operation column

U is for update. The update changes the balance to balance to this new value. On an insert, if the account already exists, an update is done. On an update, if the account does not exist, it is created by an insert.

D is for delete. On a delete, if the row does not exist, no action is taken.

I is for increasing the balance if it is positive or decreasing if negative

Anything else is an incorrect operation code.

Your PL/SQL will run the TRANSXX against the CUSTXX.

1. It will update the balance in custxx

2. It will put an appropriate message in the status column in transxx

There will be an SQL statement at the end of the script to show the new values in custxx and transxx

On an insert, if the account already exists, an update is done instead. On an update, if the account does not exist, it is created by an insert. On a delete, if the row does not exist, then only the status will indicate it did not exist. Example: Delete: ID does not exist