Lab 9
PL/SQL

CSE 4308
DATABASE MANAGEMENT SYSTEMS LAB

OCTOBER 31, 2022

1 Lab Task

Write PL/SQL statements to perform the following tasks:

1. **Warm-up**:

   (a) Print your student ID.

   (b) Take your name as input and print its length.

   (c) Take two numbers as input and print their sum.

   (d) Print the current system time in 24-hour format.

   (e) Take a number as input and print whether it is odd or even (with and without CASE statement).

   (f) Write a procedure that takes a number as argument and prints whether it is a prime number or not.

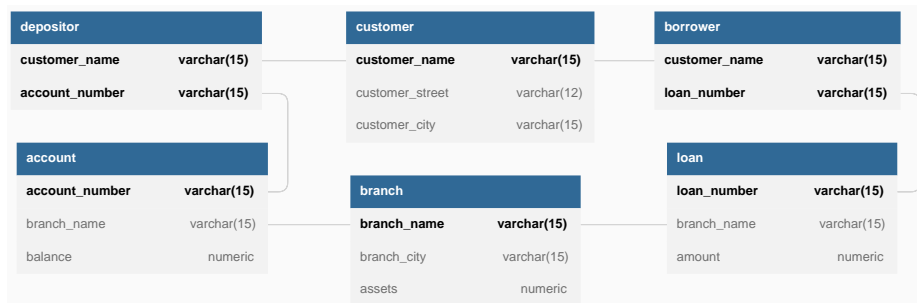2. Consider the following schema for a banking management system:

Figure 1: ER Diagram for a banking management system

Execute the provided "`banking.sql`" file and answer the following questions:

   (a) Write a procedure to find the N richest branches and their details. The procedure will take N as input and print the details upto N branches. If N is greater then the number of branches, then it will print an error message.

   (b) Write a procedure to find the customer status ("Green zone", "Red zone"). If net loan > net balance, then the status should be "Red zone", else it should be "Green zone". The procedure will take the name of the customer as input as input and print the status.

   (c) Write a function to find the tax amount for each customer. A customer is eligible for tax if their net balance is greater then or equal to 750 (do not consider the loan). And amount of tax for one is 8% of the net balance.

   (d) Write a function to find the customer category based on Table 1.

Table 1: Customer Category Table for Question 2(d).

Customer Category	Total Balance	Total Loan
C-A1	>1000	<1000
C-C3	<500	>2000
C-B1	Neither C-A1 nor C-C3	

The function will take the name of the customer as input and return the category.

Write anonymous blocks to illustrate your programs, if needed.