**TERM– WINTER 2023 **

| **Course & Section Code:** | **DBS501S1A** |
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| **Course Name:** | **Procedure Using Oracles PL/SQL** |
| **Course Start & End Dates:** |  |
| **Q&A / Virtual Office Hour:** | **6:30 PM – 9:30 PM** |
| **Instructor Name & Email:** | **Ersan Cam: ersan.cam@senecacollege.ca** |

Lab#8 (Stored Procedures)

**1 -2 ) Stored Procedure which does two operations (Insert and Update)**

*CREATE TABLE ADDRESS\_POSTAL*

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*Postal\_code varchar2(6) PRIMARY KEY,*

*City varchar2(40),*

*Province varchar2(3)*

*)*

**Sample insert:**

M5G 2G4 London ON

M5A 2J2 Toronto ON

Please note that if you copy paste from Word document ‘ (Single quote) may cause problem. Try to copy in Notepad first to make sure single quote is good.

INSERT INTO *ADDRESS\_POSTAL* VALUES (‘M5G 2G4’ , ‘London’ ,’ON’)

INSERT INTO *ADDRESS\_POSTAL* VALUES (‘M5A 2J2’ , ‘Toronto’, ‘ON’)

Commit;

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Write a procedure to have TWO main section in same procedure..

It will take input 4 parameters as **postal code, city, province and operation code** and inserts the values into the ZIPCODE table or update record.

Here are the operations that you need to perform

If operation is **‘I’** then it means INSERT , If operation is **‘U’** then it means UPDATE

**If it is ‘I’ then**

There should be a check to see if the postal code s already in the table.

If it is, an exception will be raised and an error message will be displayed stating “ this postal code is already exists in the system”

Otherwise you just insert the record.

Write an anonymous block that uses the procedure and inserts your zip code

**If the operation code is ‘U’ then** it does Update the city name for that particular Postal Code.

For instance if the parameters are ‘M5A 2J2’ ‘Milton’ ‘ON’ , ‘U’

Change the city info Toronto to Milton for Postal Code : ‘M5A 2J2’

Test case for Insert operations:

**Test Case #1:** Call Procedure with ‘M5G 2G4’ , ‘Niagrara’ , ‘ON’ and get message on screen shot

**Test Case #2 :** Call Procedure with M5J 3A1 a postal code for Scarborough ON

Test Case for Update operations

Test Case #3: parameters are ‘M5A 2J2’ ‘Milton’ ‘ON’ , ‘U’

update postal code of ‘M5A 2J2’ city to Milton



