CSE 4508 – RDBMS Programming Lab

<u>Lab 7</u>

Prerequisites: Oracle 10g Express Edition, Notepad

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A. Write a block of PL/SQL code which checks whether the current year is a leap year and prints "Yes" or "No". After this, it should print the immediate previous leap year, and the immediate next one. [Do NOT simply hardcode and print 2016 and 2020]

B. Write a PL/SQL procedure that takes as input a string. The program will achieve two things:

1) Make a new string with a space added between every character of the input string. For instance, if the input string is **twat**, the output will be:

```
t w a t
```

2) Check if the original input string was a palindrome. Print "Yes" or "No" accordingly. [Hint for both: substr]

C. Write a PL/SQL procedure/function called **nearest_primes.** This procedure takes a number, **n,** as an input. Given the number n, the procedure will output the nearest prime number less than n and the nearest prime number greater than n. For example, if **n** = 15, the program should output **13** and **17.**