**Class Test 03**

**PL/SQL**

**Part 01:**

1. Write a query that can multiply two numbers taking input from user.

**Answer:**

DECLARE

num1 NUMBER := :Enter\_Number1;

num2 NUMBER := :Enter\_Number2;

result NUMBER;

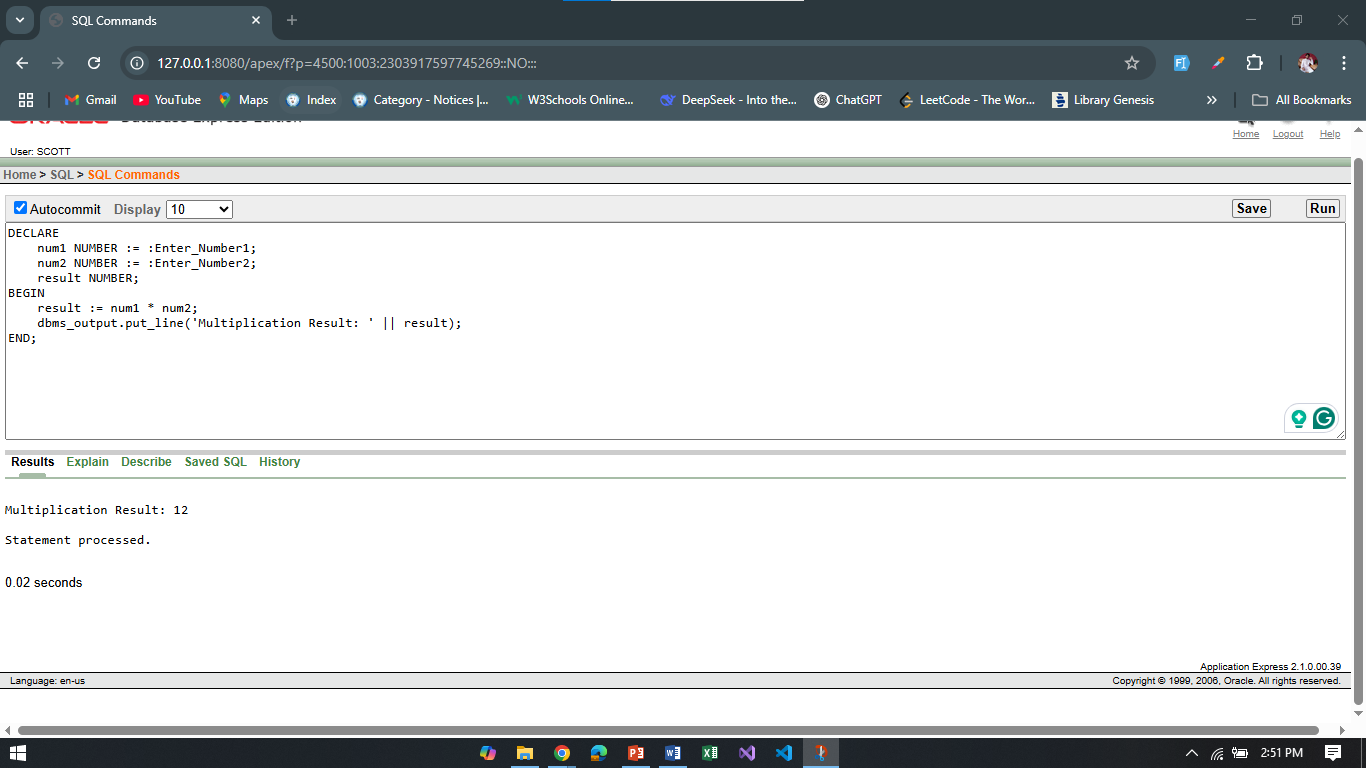
BEGIN

result := num1 \* num2;

dbms\_output.put\_line('Multiplication Result: ' || result);

END;

**Output:**



1. Write a query that can add two numbers if the numbers are equal. Use CASE Statement.

**Answer:**

DECLARE

num1 NUMBER := :Enter\_Number1;

num2 NUMBER := :Enter\_Number2;

result NUMBER;

BEGIN

result := CASE

WHEN num1 = num2 THEN num1 + num2

ELSE NULL

END;

IF result IS NOT NULL THEN

dbms\_output.put\_line('Sum of Numbers: ' || result);

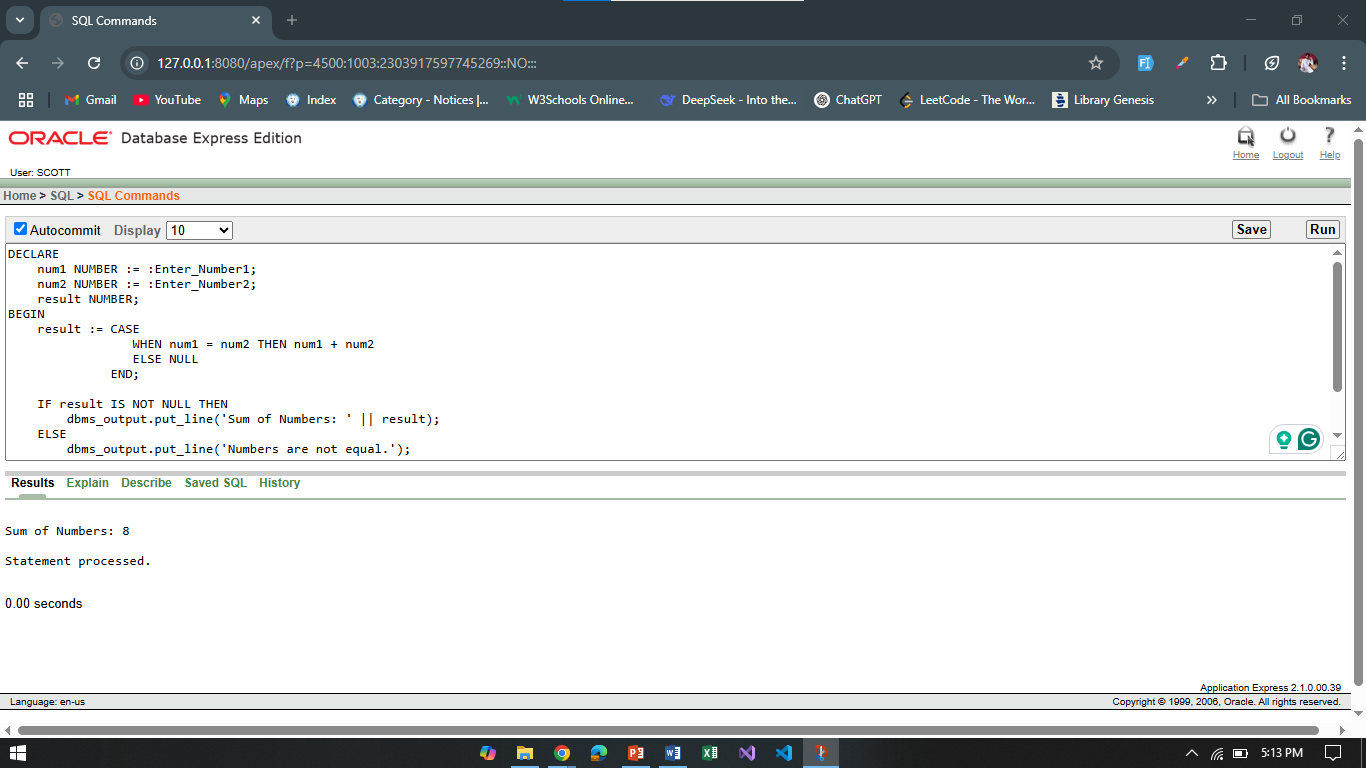
ELSE

dbms\_output.put\_line('Numbers are not equal.');

END IF;

END;

**Output:**



1. Write a query that can check if two strings are equal or not. Use IF-THEN-ELSIF Statement.

Answer:

DECLARE

str1 VARCHAR2(50) := 'String1';

str2 VARCHAR2(50) := 'String2';

BEGIN

IF str1 = str2 THEN

dbms\_output.put\_line('Strings are equal.');

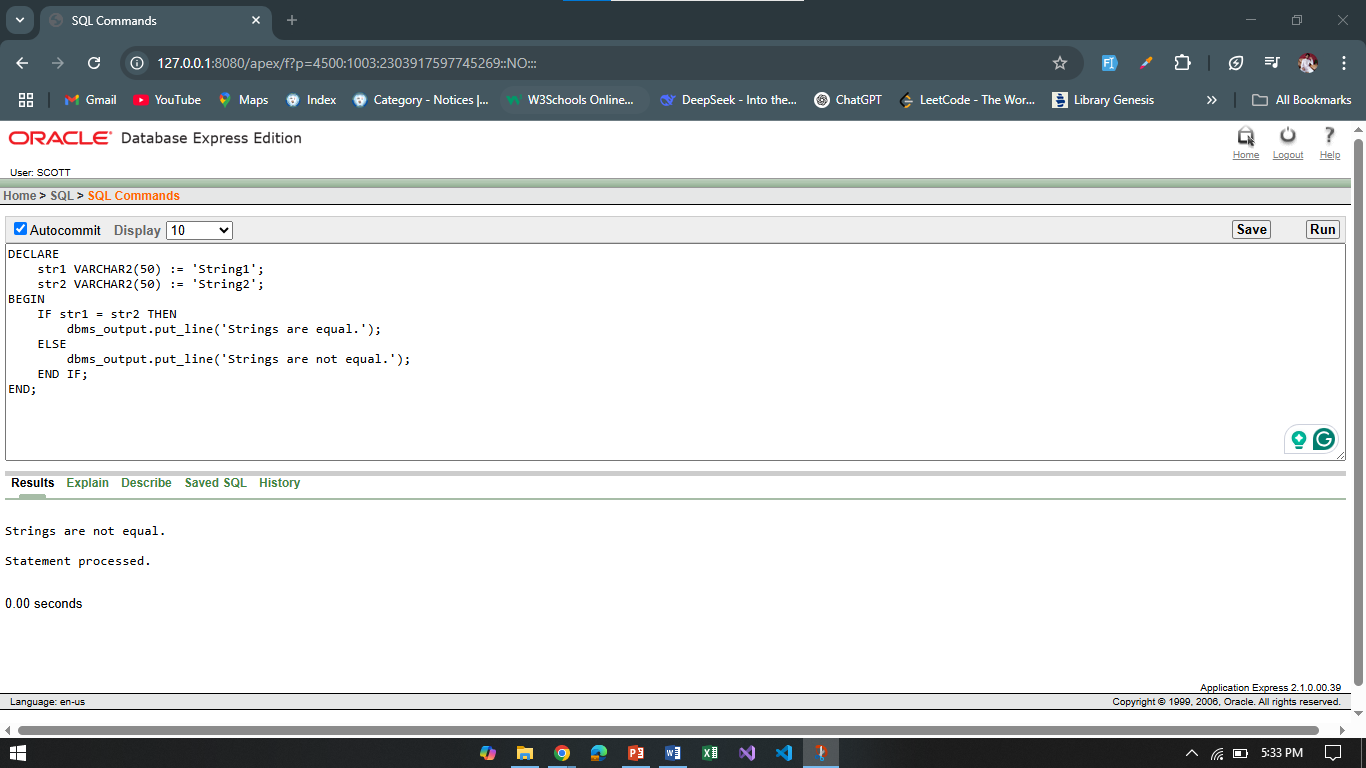
ELSE

dbms\_output.put\_line('Strings are not equal.');

END IF;

END;

Output:



1. Write a query that can multiply two numbers. If the result obtained is less than 100, **Hi** is displayed, if the result obtained is more than 100, **Bye** is displayed and if the result obtained is equal to 100, **ADBMS** is displayed. Use IF-THEN-ELSIF Statement

Answer:

DECLARE

num1 NUMBER := :Enter\_Number1;

num2 NUMBER := :Enter\_Number2;

result NUMBER;

BEGIN

result := num1 \* num2;

IF result < 100 THEN

dbms\_output.put\_line('Hi');

ELSIF result > 100 THEN

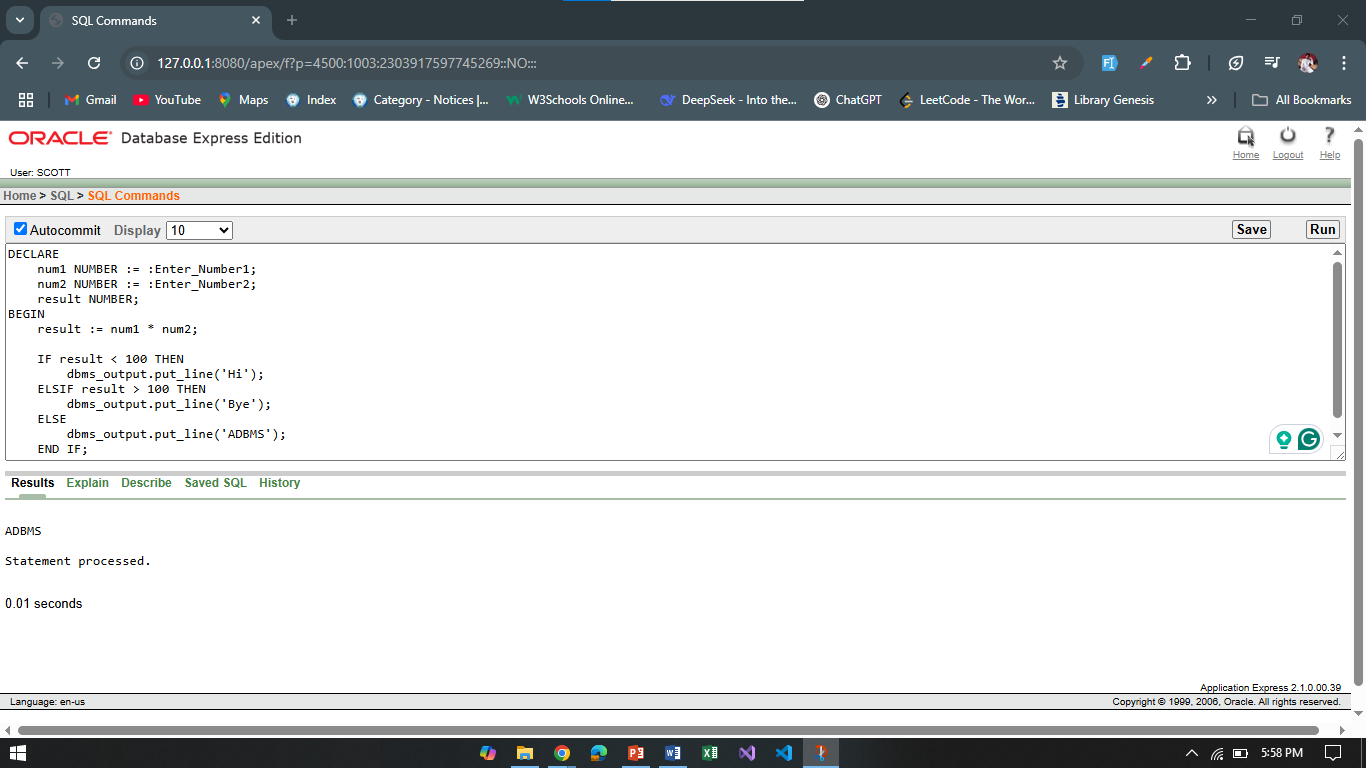
dbms\_output.put\_line('Bye');

ELSE

dbms\_output.put\_line('ADBMS');

END IF;

END;



1. Write a query that can check if two numbers are equal or not. Use CASE Statement.

Answer:

DECLARE

num1 NUMBER := :Enter\_Number1;

num2 NUMBER := :Enter\_Number2;

message VARCHAR2(50);

BEGIN

message := CASE

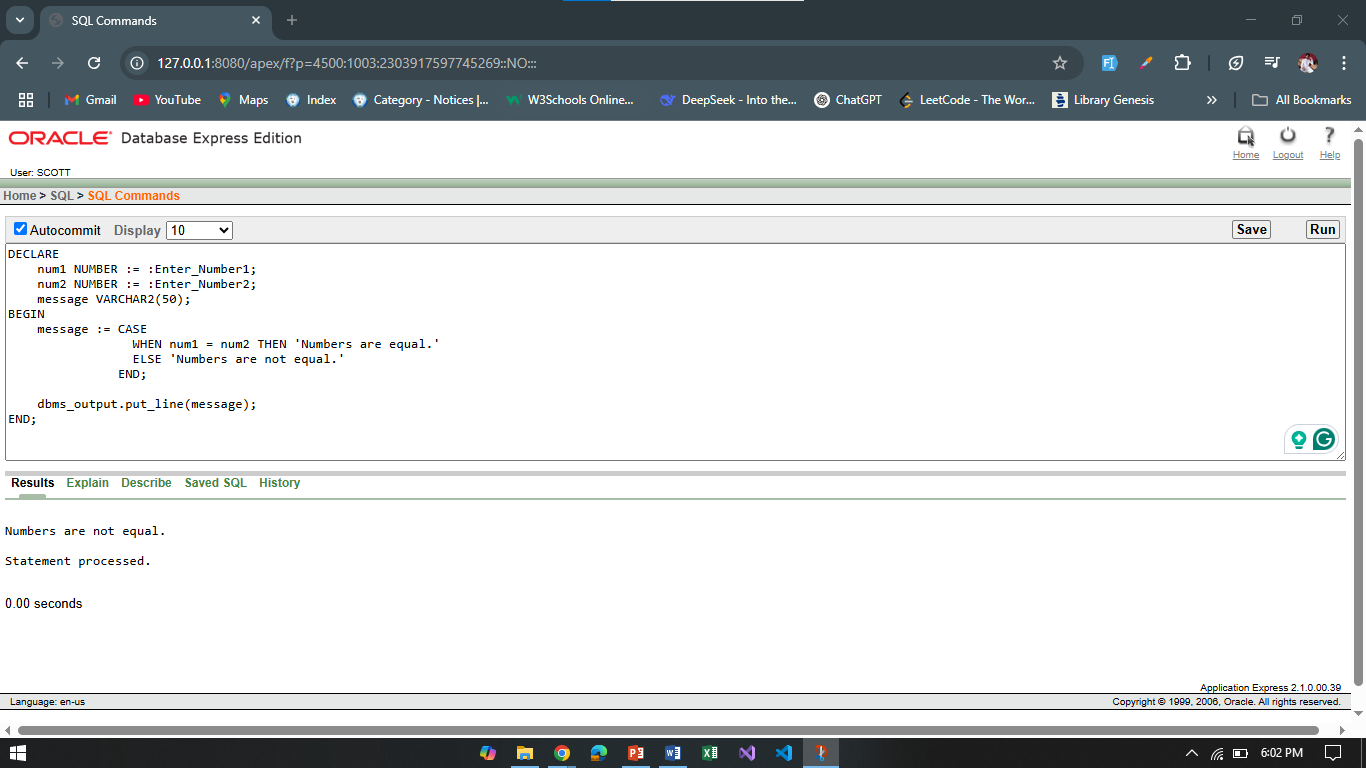
WHEN num1 = num2 THEN 'Numbers are equal.'

ELSE 'Numbers are not equal.'

END;

dbms\_output.put\_line(message);

END;



**Part 02:**

*To solve the following use the scott schema*

1. Write a query that can display the salary of employee ALLEN. If ALLEN’s salary is greater than 2000 display ‘SALARY GREATER THAN 2000’ and If not then display ‘SALARY LESS THAN 2000’.

**Answer:**

DECLARE

salary NUMBER;

BEGIN

SELECT sal INTO salary FROM emp WHERE ename = 'ALLEN';

IF salary > 2000 THEN

dbms\_output.put\_line('SALARY GREATER THAN 2000');

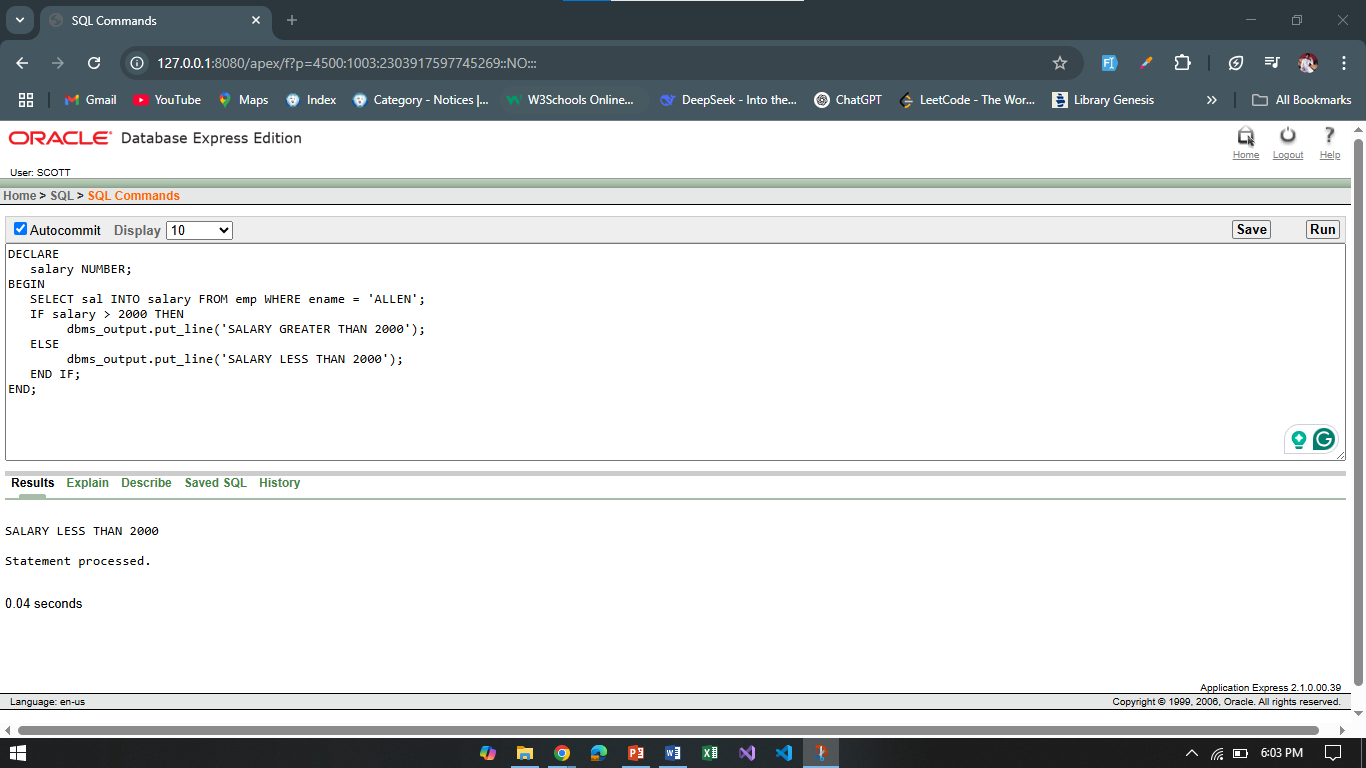
ELSE

dbms\_output.put\_line('SALARY LESS THAN 2000');

END IF;

END;

**Output:**



1. Write a query that can ask user to input the EMPNO of employee WARD and display his salary.
2. Write a query that can ask user to input the EMPNO of employee BLAKE,CLARK and TURNER and display their respective salary.
3. Write a query that can ask user to input the EMPNO of employee BLAKE,CLARK and TURNER and display their respective salary, add the salaries and display the total.
4. Write a query that displays the commission of employee SMITH. If SMITH’s commission is NULL. Display ‘NOT APPLICABLE FOR COMMISSION’

**Part 03:**

*To solve the following use the scott schema*

1. Write a query that can display the salary of employee JONES three times using basic loop.

**Answer:**

DECLARE

cnt number := 1;

salary number;

BEGIN

LOOP

select sal into salary from emp where ename = 'JONES';

dbms\_output.put\_line(salary);

cnt := cnt + 1;

IF cnt > 3 THEN

exit;

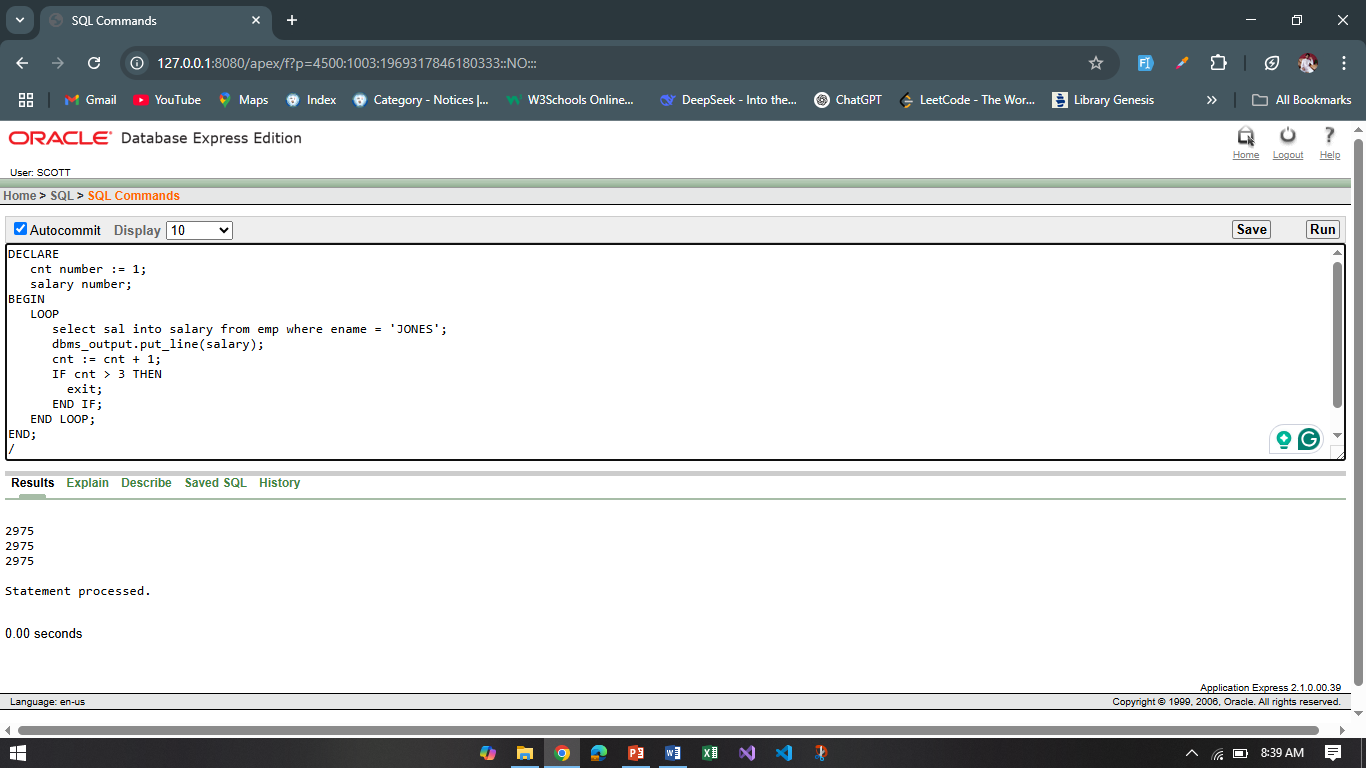
END IF;

END LOOP;

END;

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**Output:**



1. Write a query that can display the salary of employee JONES three times using while loop.
2. Write a query that can display the salary of employee JONES three times using for loop.
3. Create a function that returns the total number of departments.
4. Create a procedure to update the salary of employee Allen to 100.

**\*\*After solving the above questions using Oracle 10g, write the PL/SQLs in a MS Word document (Write down the answer and give screenshot of the result of the query. The name of the document MUST be your ID and the PL/SQLs MUST be numbered accordingly) and upload it in the provided link in your VUES account**