**Class Test 05**

**PL/SQL**

*To solve the following use the scott schema*

1. Create a cursor that can output all the data from salgrade table.

DECLARE

total\_rows NUMBER(2);

CURSOR c\_salgrade IS SELECT \* FROM salgrade;

r\_salgrade c\_salgrade%ROWTYPE;

BEGIN

OPEN c\_salgrade;

LOOP

FETCH c\_salgrade INTO r\_salgrade;

EXIT WHEN c\_salgrade%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE(

'Grade: ' || r\_salgrade.grade ||

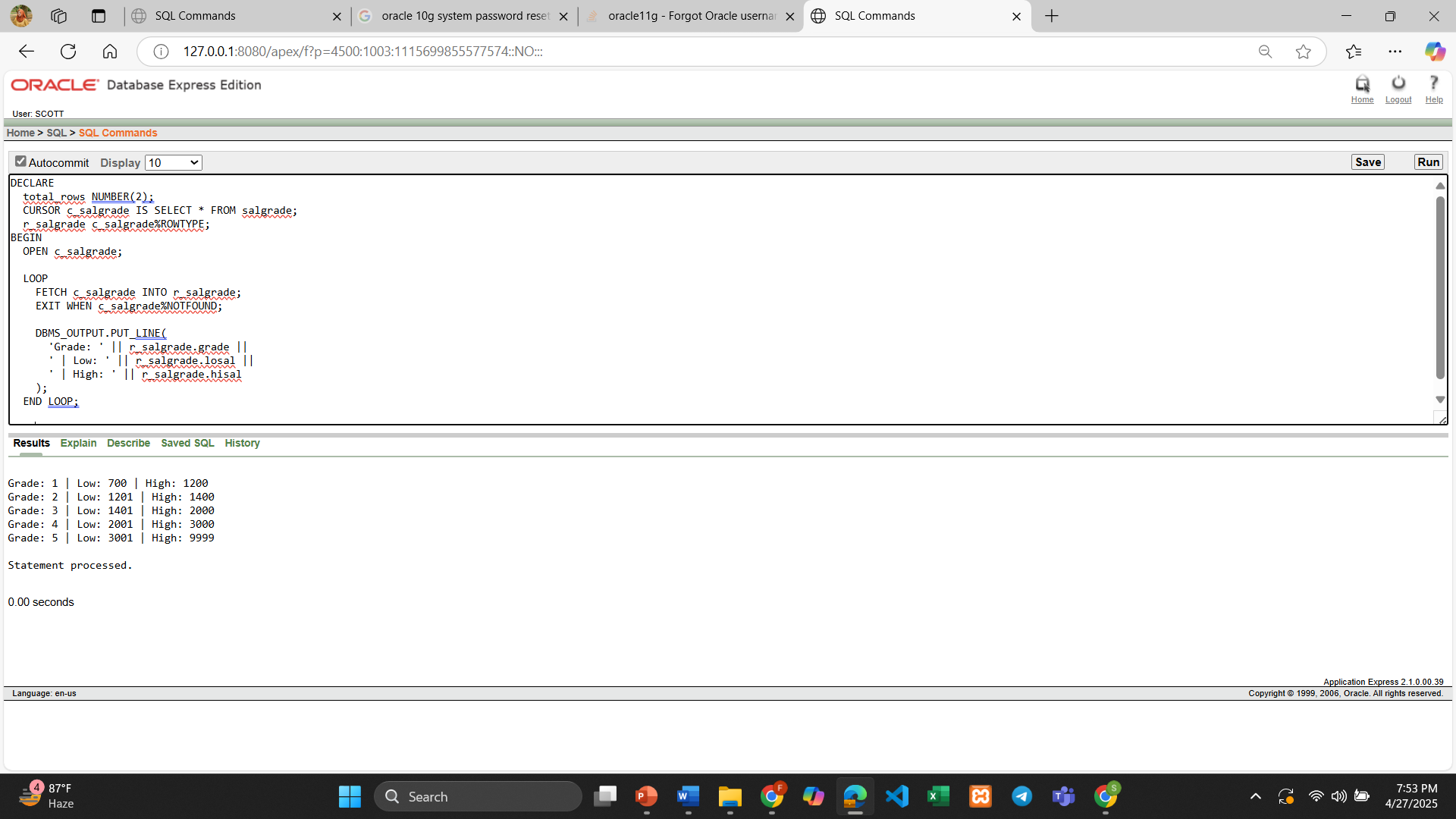
' | Low: ' || r\_salgrade.losal ||

' | High: ' || r\_salgrade.hisal

);

END LOOP;

END;



1. Create a record that can output the id, name, job, and hiredate of the employee whose Id is 7654.

DECLARE

emp\_rec EMP%ROWTYPE;

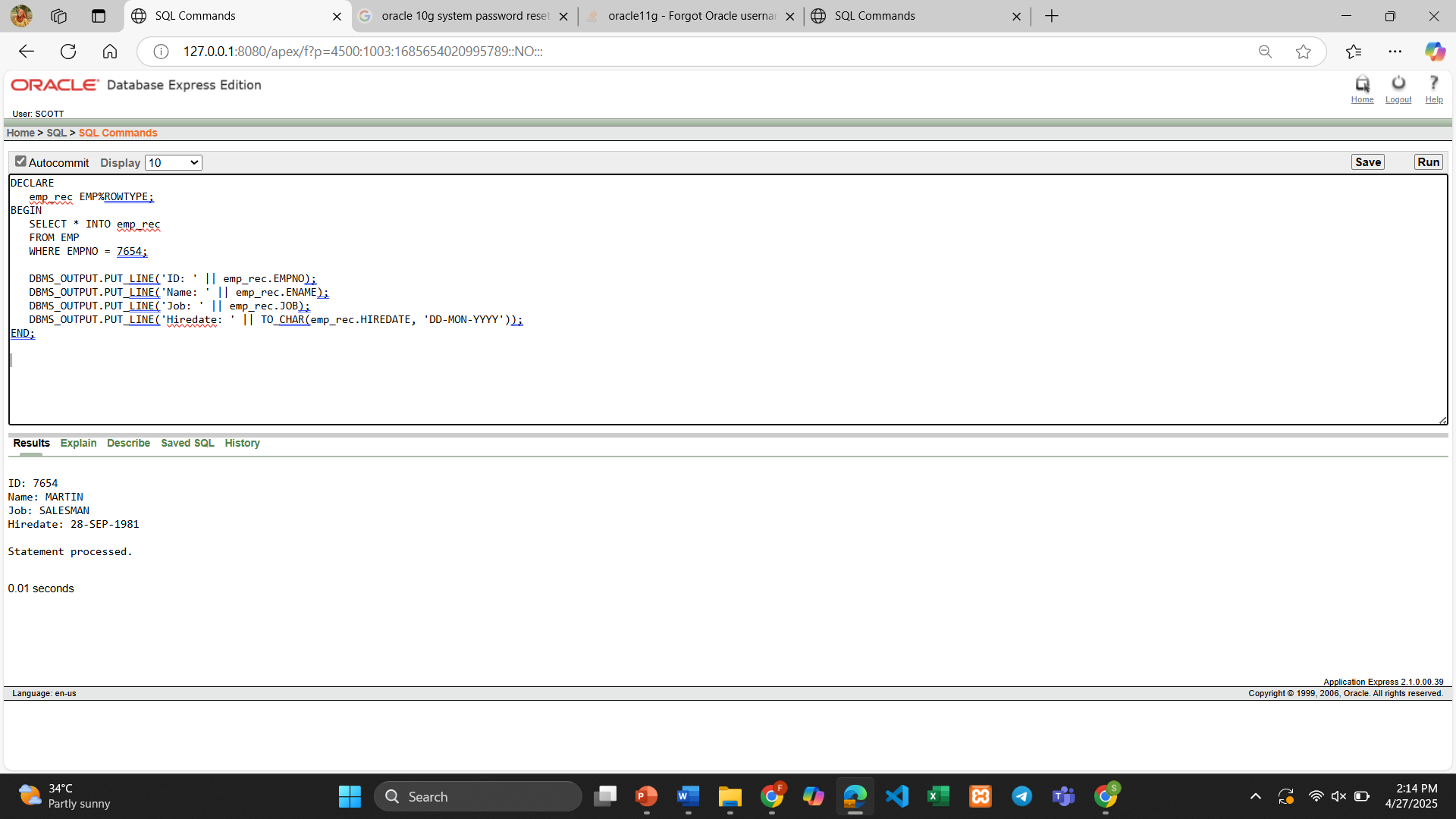
BEGIN

SELECT \* INTO emp\_rec

FROM EMP

WHERE EMPNO = 7654;

DBMS\_OUTPUT.PUT\_LINE('ID: ' || emp\_rec.EMPNO);



DBMS\_OUTPUT.PUT\_LINE('Job: ' || emp\_rec.JOB);

DBMS\_OUTPUT.PUT\_LINE('Hiredate: ' || TO\_CHAR(emp\_rec.HIREDATE, 'DD-MON-YYYY'));

END;

1. Create a trigger in such a way that whenever a new row is inserted into the salgrade table an output ‘New Row Added’ is generated.

CREATE OR REPLACE TRIGGER salgrade\_added

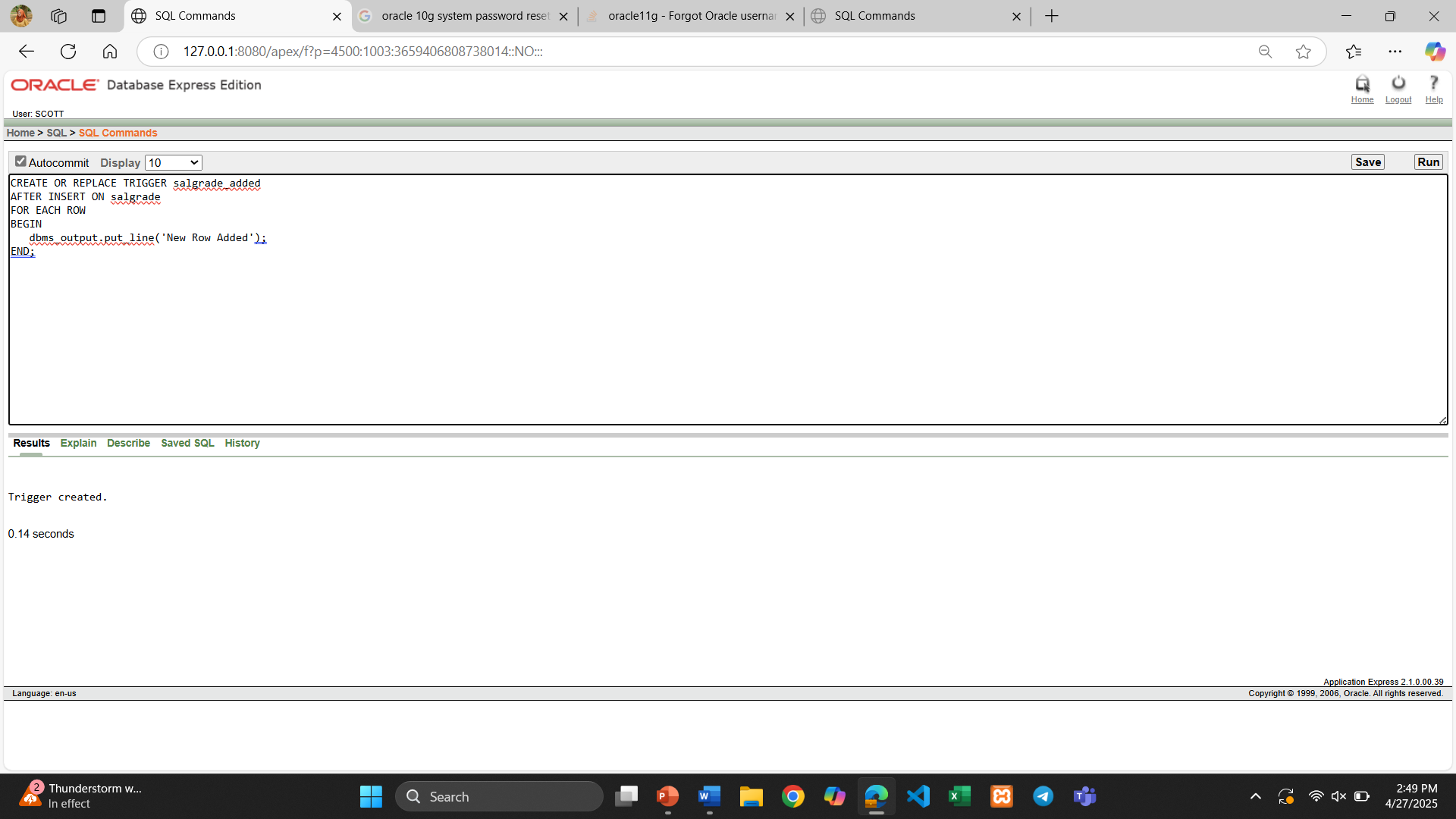
AFTER INSERT ON salgrade

FOR EACH ROW

BEGIN

dbms\_output.put\_line('New Row Added');

END;



1. Create a package that contains a procedure which can display the grade whose losal and hisal is passed as its parameter.

CREATE OR REPLACE PACKAGE salgrade\_pkg AS

PROCEDURE show\_grade(p\_losal NUMBER, p\_hisal NUMBER);

END salgrade\_pkg;

CREATE OR REPLACE PACKAGE BODY salgrade\_pkg AS

PROCEDURE show\_grade(p\_losal NUMBER, p\_hisal NUMBER) IS

matched\_grade NUMBER;

BEGIN

SELECT grade INTO matched\_grade

FROM salgrade

WHERE losal = p\_losal AND hisal = p\_hisal;

DBMS\_OUTPUT.PUT\_LINE('Grade: ' || matched\_grade);

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('No matching grade found.');

WHEN TOO\_MANY\_ROWS THEN

DBMS\_OUTPUT.PUT\_LINE('Multiple grades found for the given losal and hisal.');

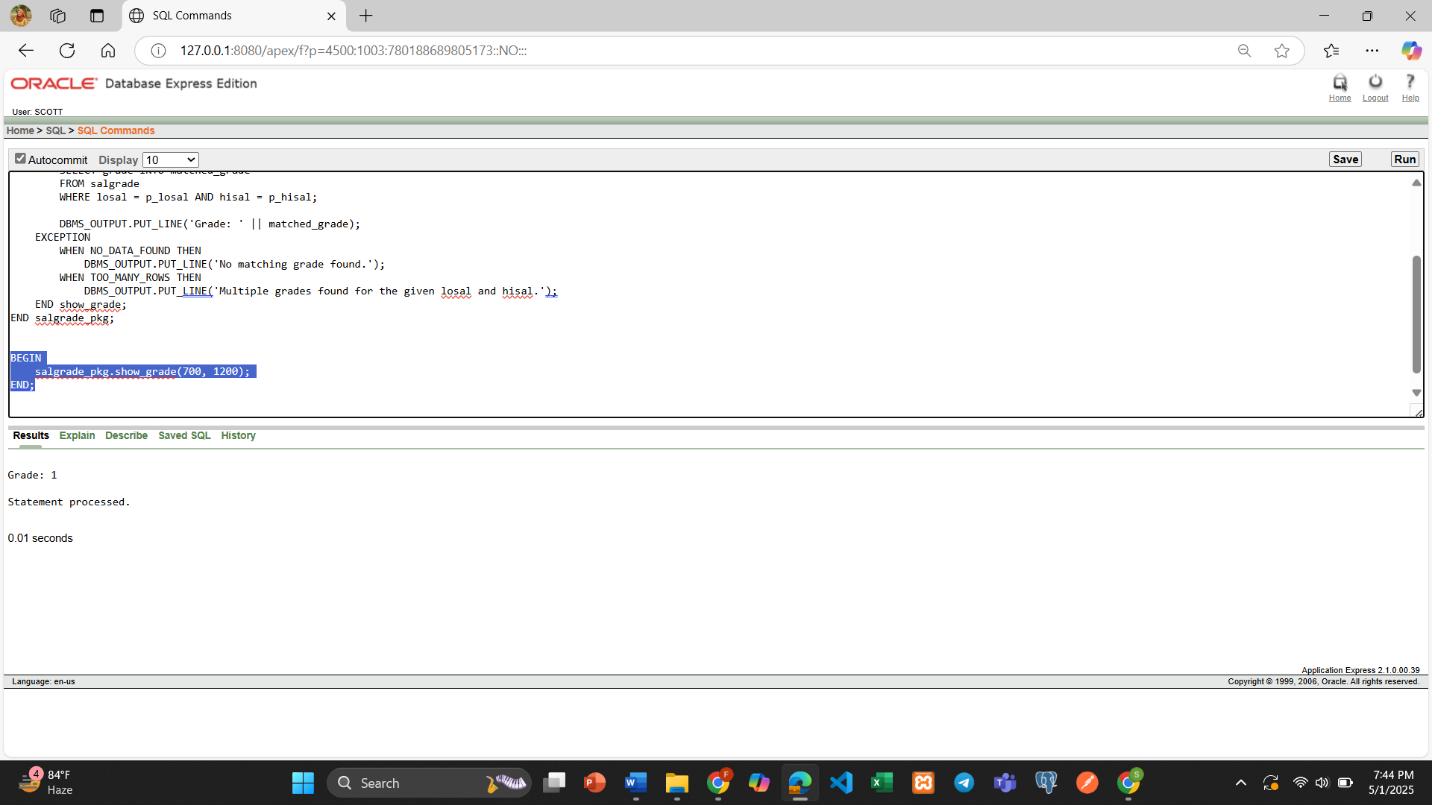
END show\_grade;

END salgrade\_pkg;

BEGIN

salgrade\_pkg.show\_grade(700, 1200);

END;



**\*\*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**