**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.

**Answer:**

DECLARE

CURSOR sal\_cursor IS

SELECT \* FROM salgrade;

sal\_record salgrade%ROWTYPE;

BEGIN

OPEN sal\_cursor;

LOOP

FETCH sal\_cursor INTO sal\_record;

EXIT WHEN sal\_cursor%NOTFOUND;

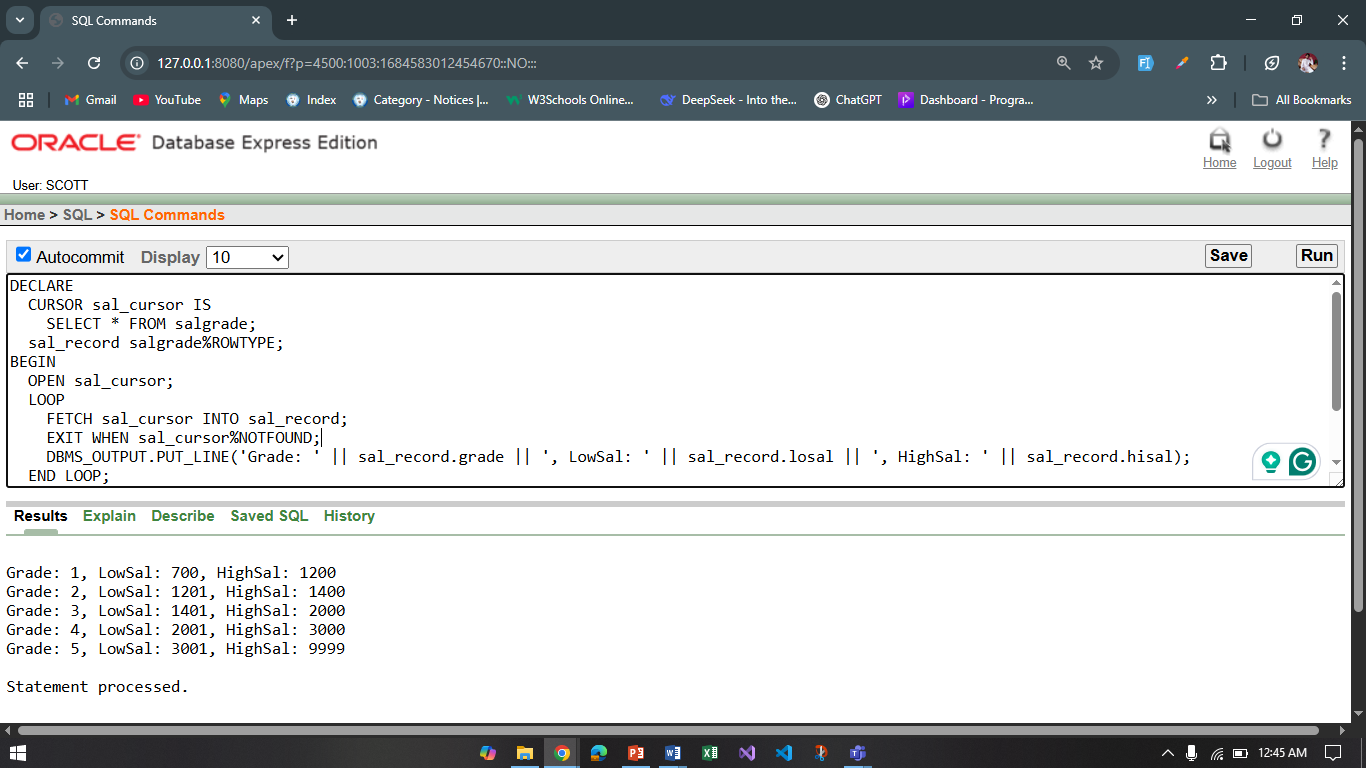
DBMS\_OUTPUT.PUT\_LINE('Grade: ' || sal\_record.grade || ', LowSal: ' || sal\_record.losal || ', HighSal: ' || sal\_record.hisal);

END LOOP;

CLOSE sal\_cursor;

END;

/



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

**Answer:**

DECLARE

emp\_record emp%ROWTYPE;

BEGIN

SELECT \* INTO emp\_record FROM emp WHERE empno = 7654;

DBMS\_OUTPUT.PUT\_LINE('ID: ' || emp\_record.empno);

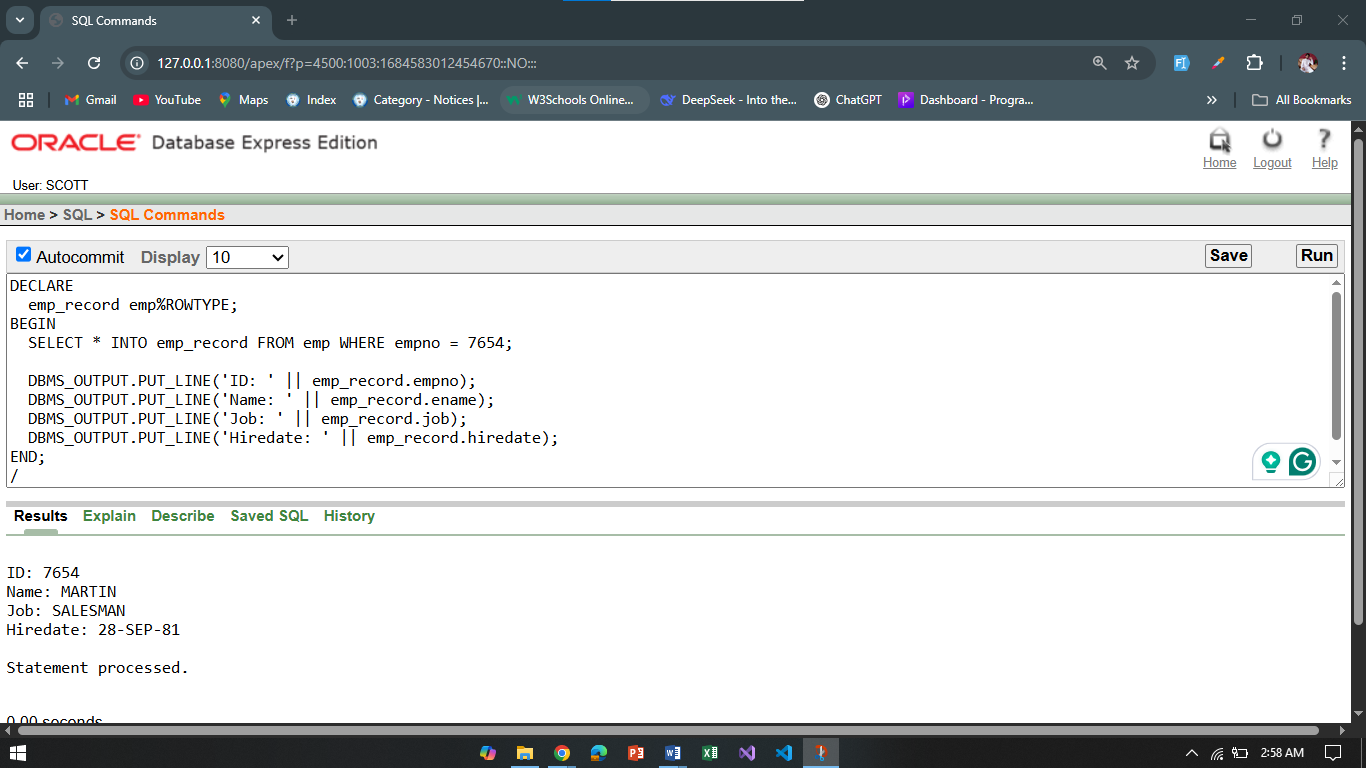
DBMS\_OUTPUT.PUT\_LINE('Name: ' || emp\_record.ename);

DBMS\_OUTPUT.PUT\_LINE('Job: ' || emp\_record.job);

DBMS\_OUTPUT.PUT\_LINE('Hiredate: ' || emp\_record.hiredate);

END;

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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.

**Answer:**

CREATE OR REPLACE TRIGGER trg\_salgrade\_insert

AFTER INSERT ON salgrade

FOR EACH ROW

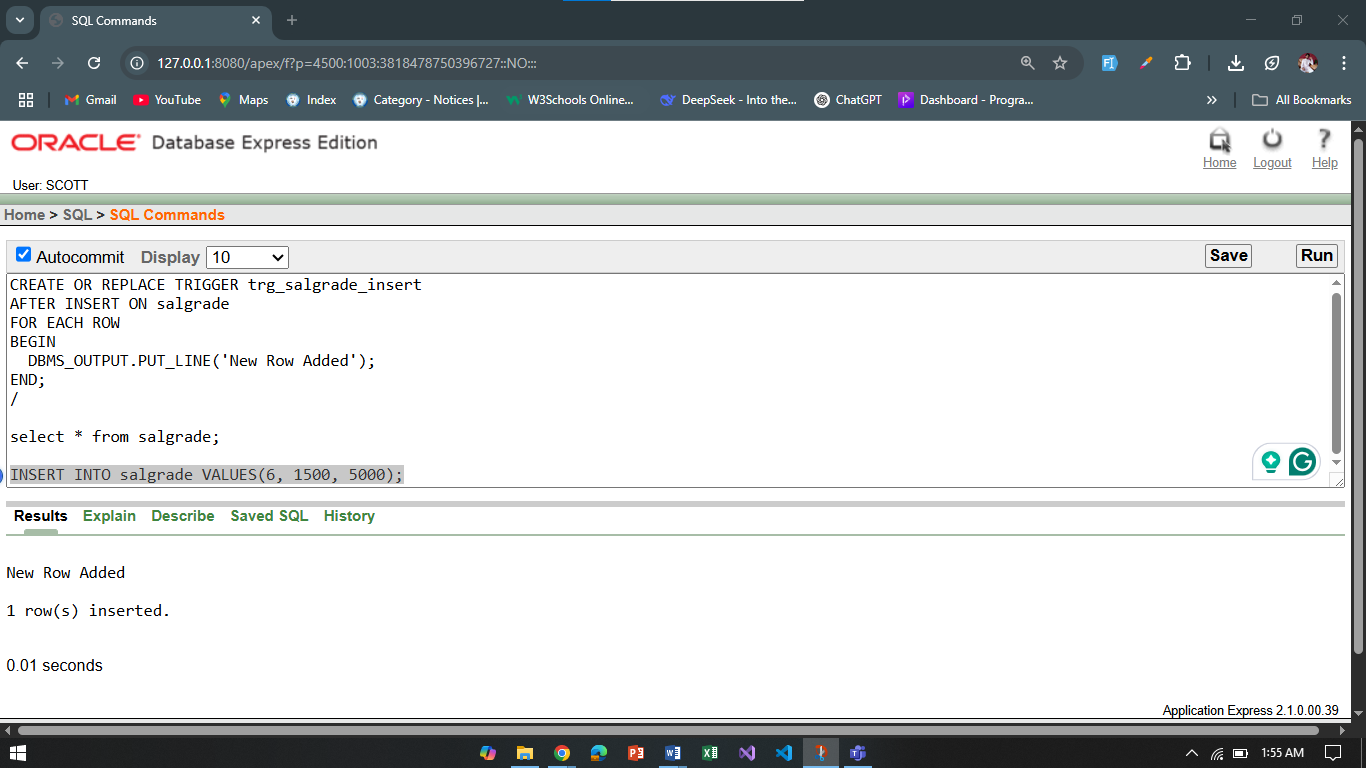
BEGIN

DBMS\_OUTPUT.PUT\_LINE('New Row Added');

END;

/

INSERT INTO salgrade VALUES(6, 1500, 5000);



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

**Answer:**

CREATE OR REPLACE PACKAGE salgrade\_pkg AS

PROCEDURE display\_grade(p\_losal IN NUMBER, p\_hisal IN NUMBER);

END salgrade\_pkg;

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CREATE OR REPLACE PACKAGE BODY salgrade\_pkg AS

PROCEDURE display\_grade(p\_losal IN NUMBER, p\_hisal IN NUMBER) IS

v\_grade salgrade.grade%TYPE;

BEGIN

SELECT grade INTO v\_grade

FROM salgrade

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

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

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('No grade found with given losal and hisal.');

END display\_grade;

END salgrade\_pkg;

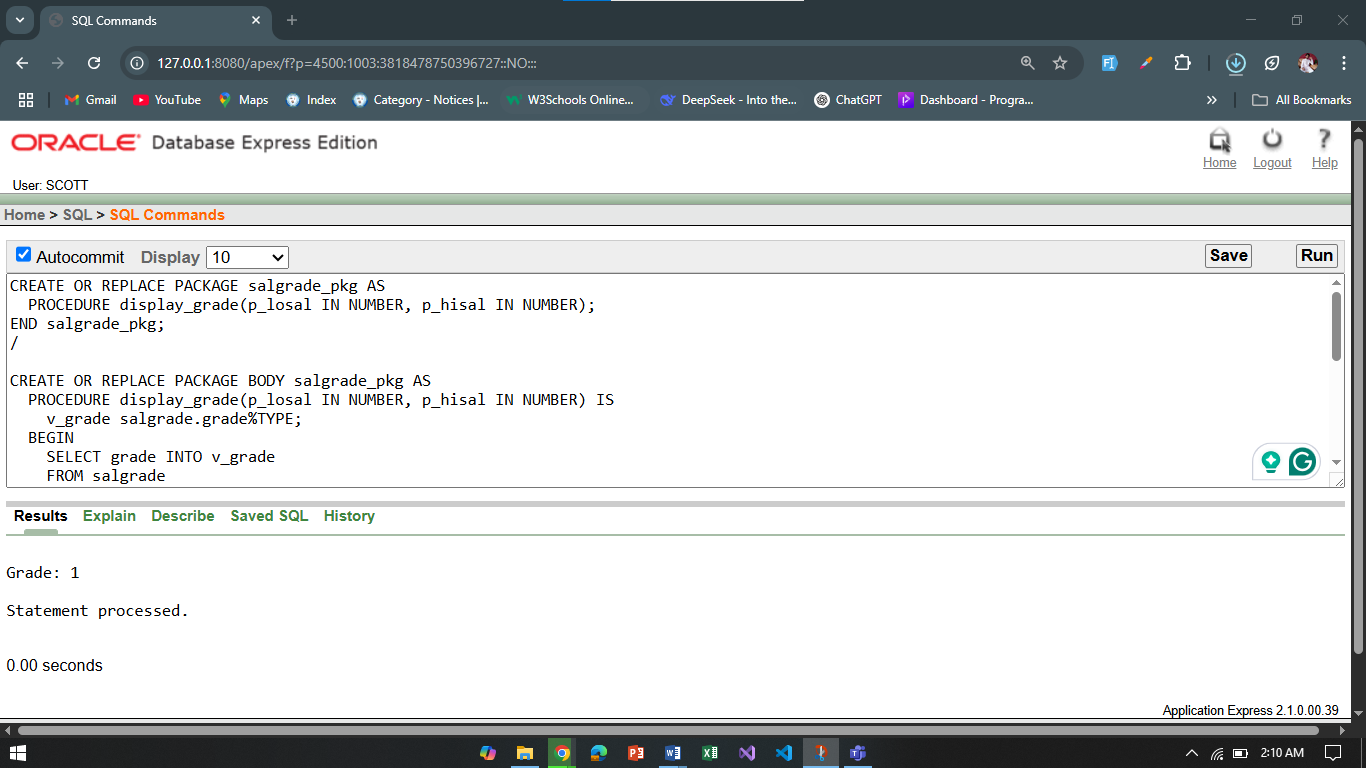
/

BEGIN

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

END;

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**\*\*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**