ASSINGMENT – 31

To use the package with function , records , user defined datatypes in a table

To Create a table:

CREATE TABLE emplo (

employee\_id NUMBER PRIMARY KEY,

first\_name VARCHAR2(50),

last\_name VARCHAR2(50),

salary NUMBER,

department\_id NUMBER

);

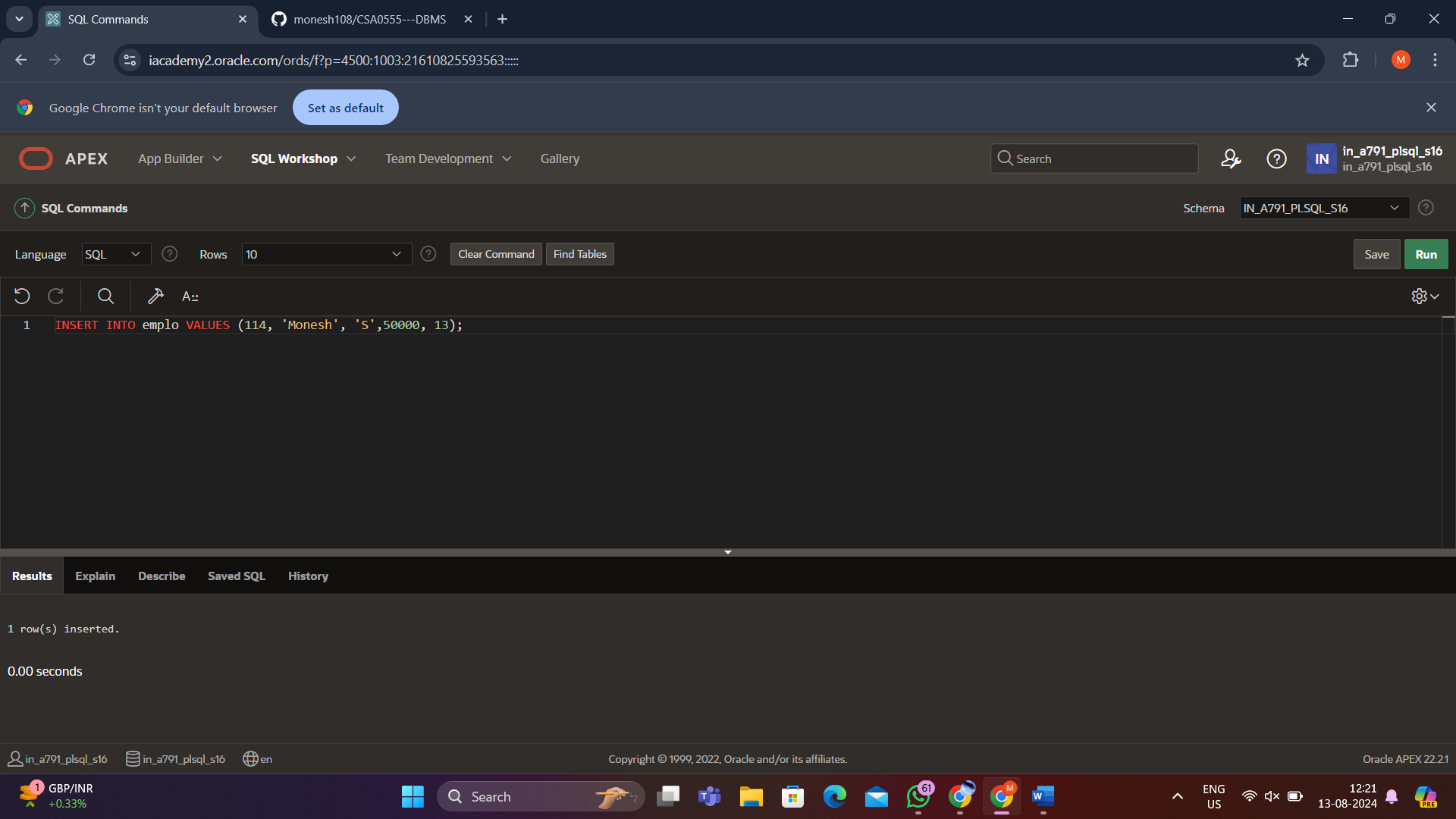
Inserting values:

INSERT INTO emplo VALUES (111, 'sugin', 't', 15000, 10);

INSERT INTO emplo VALUES (112, 'lokesh', 'r', 40000, 11);

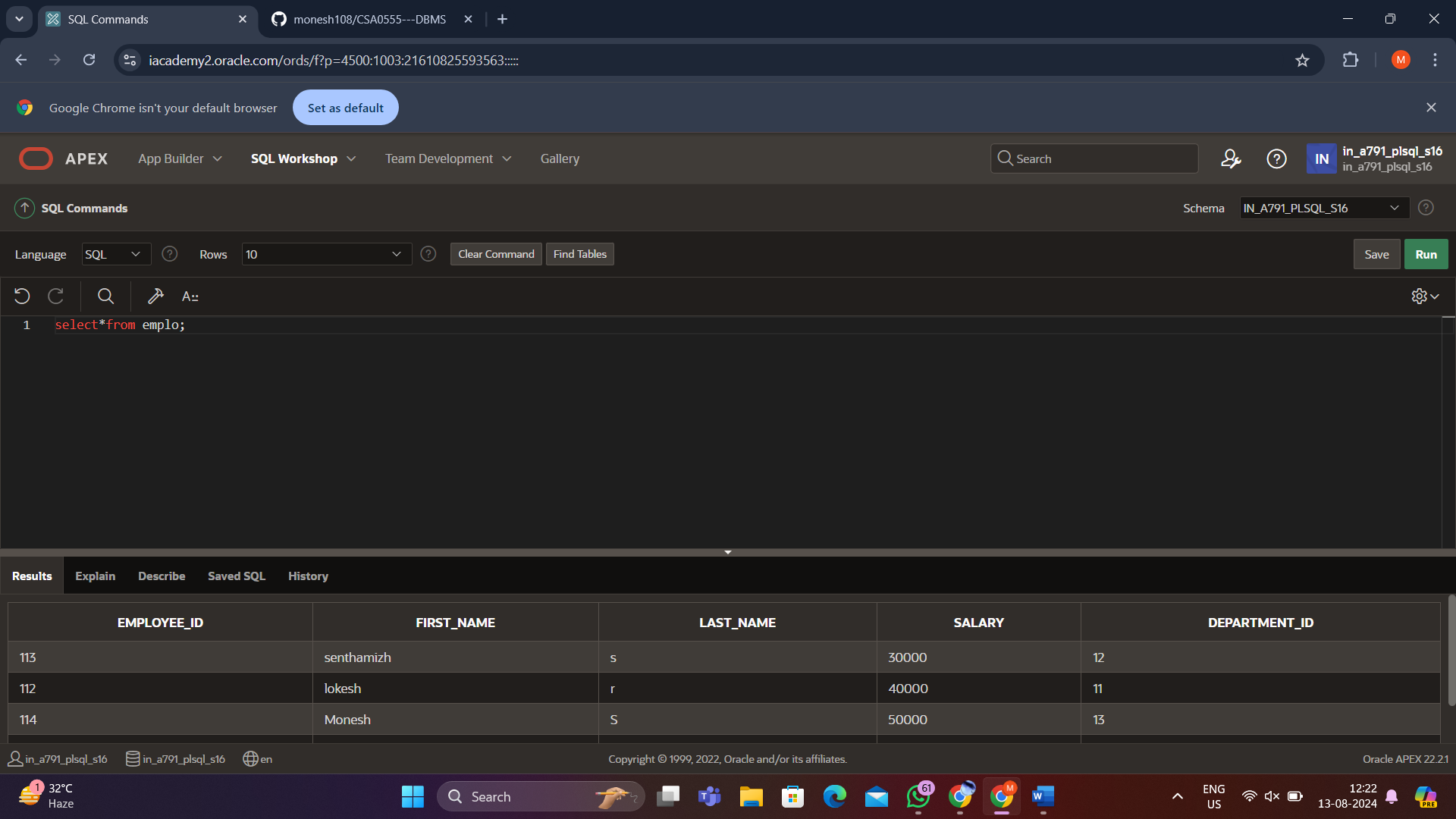
INSERT INTO emplo VALUES (113, 'senthamizh', 's',30000, 12);

INSERT INTO emplo VALUES (114, 'Monesh', 'S',50000, 13);



Display:

Select \* from employ;



Package creation:

CREATE OR REPLACE PACKAGE employee\_pkg IS

TYPE employee\_rec IS RECORD (

employee\_id NUMBER,

first\_name VARCHAR2(50),

last\_name VARCHAR2(50),

salary NUMBER

);

TYPE employee\_tbl IS TABLE OF employee\_rec;

FUNCTION get\_employee(emp\_id IN NUMBER) RETURN employee\_rec;

FUNCTION get\_employees\_by\_dept(dept\_id IN NUMBER) RETURN employee\_tbl;

PROCEDURE update\_employee\_salary(emp\_id IN NUMBER, new\_salary IN NUMBER);

END employee\_pkg;

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Description automatically generated

Package body creation:

CREATE OR REPLACE PACKAGE BODY employee\_pkg IS

FUNCTION get\_employee(emp\_id IN NUMBER) RETURN employee\_rec IS

emp employee\_rec;

BEGIN

SELECT employee\_id, first\_name, last\_name, salary

INTO emp

FROM emplo

WHERE employee\_id = emp\_id;

RETURN emp;

END get\_employee;

FUNCTION get\_employees\_by\_dept(dept\_id IN NUMBER) RETURN employee\_tbl IS

emp\_table employee\_tbl;

BEGIN

SELECT employee\_id, first\_name, last\_name, salary

BULK COLLECT INTO emp\_table

FROM emplo

WHERE department\_id = dept\_id;

RETURN emp\_table;

END get\_employees\_by\_dept;

PROCEDURE update\_employee\_salary(emp\_id IN NUMBER, new\_salary IN NUMBER) IS

BEGIN

UPDATE emplo

SET salary = new\_salary

WHERE employee\_id = emp\_id;

COMMIT;

END update\_employee\_salary;

END employee\_pkg;

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Output:

DECLARE

emp\_rec employee\_pkg.employee\_rec;

BEGIN

emp\_rec := employee\_pkg.get\_employee(111);

DBMS\_OUTPUT.PUT\_LINE('Employee: ' || emp\_rec.first\_name || ' ' || emp\_rec.last\_name || ', Salary: ' || emp\_rec.salary);

END;

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