CREATE TABLE employees1 (

employee\_id NUMBER PRIMARY KEY,

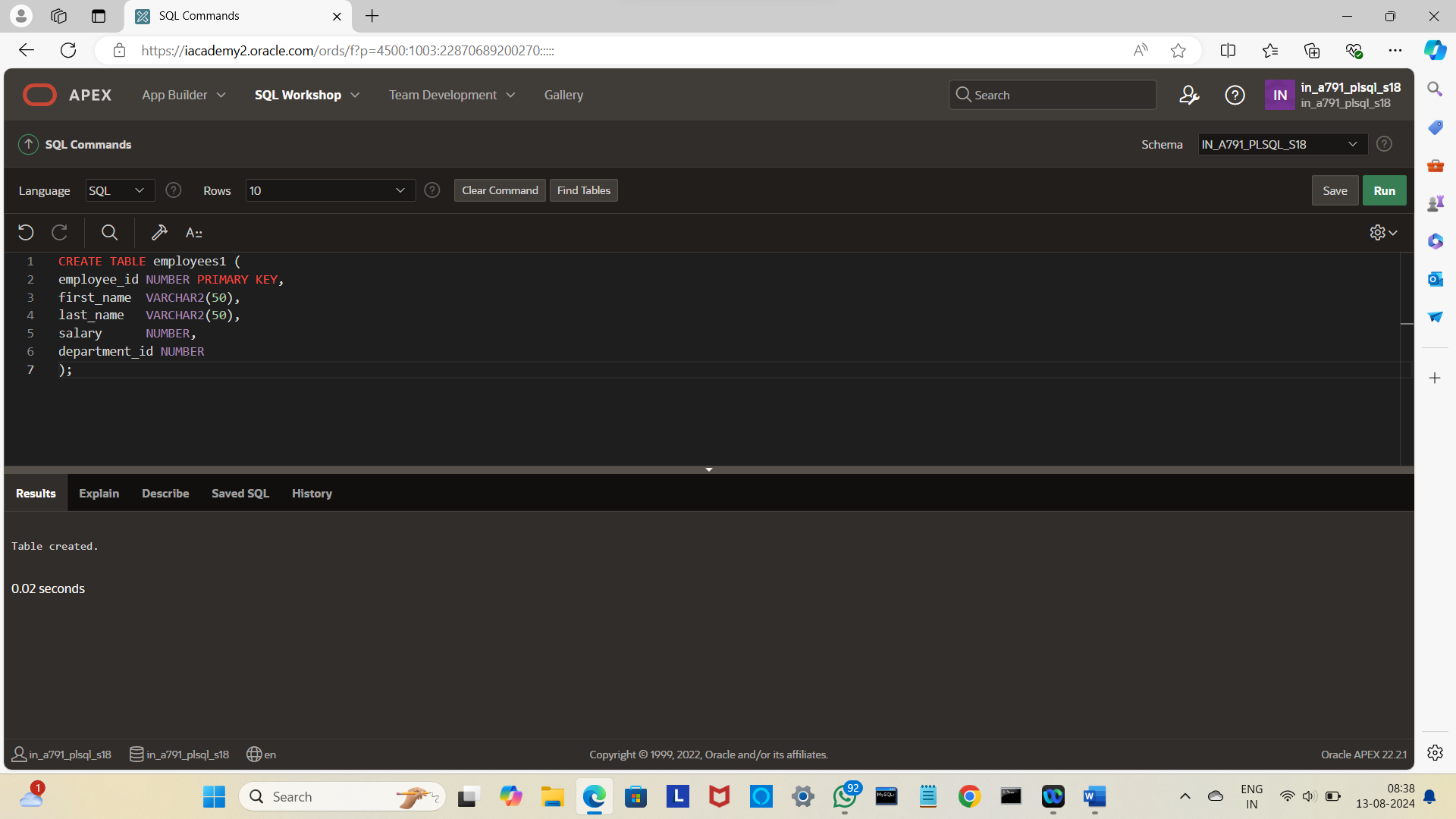
first\_name VARCHAR2(50),

last\_name VARCHAR2(50),

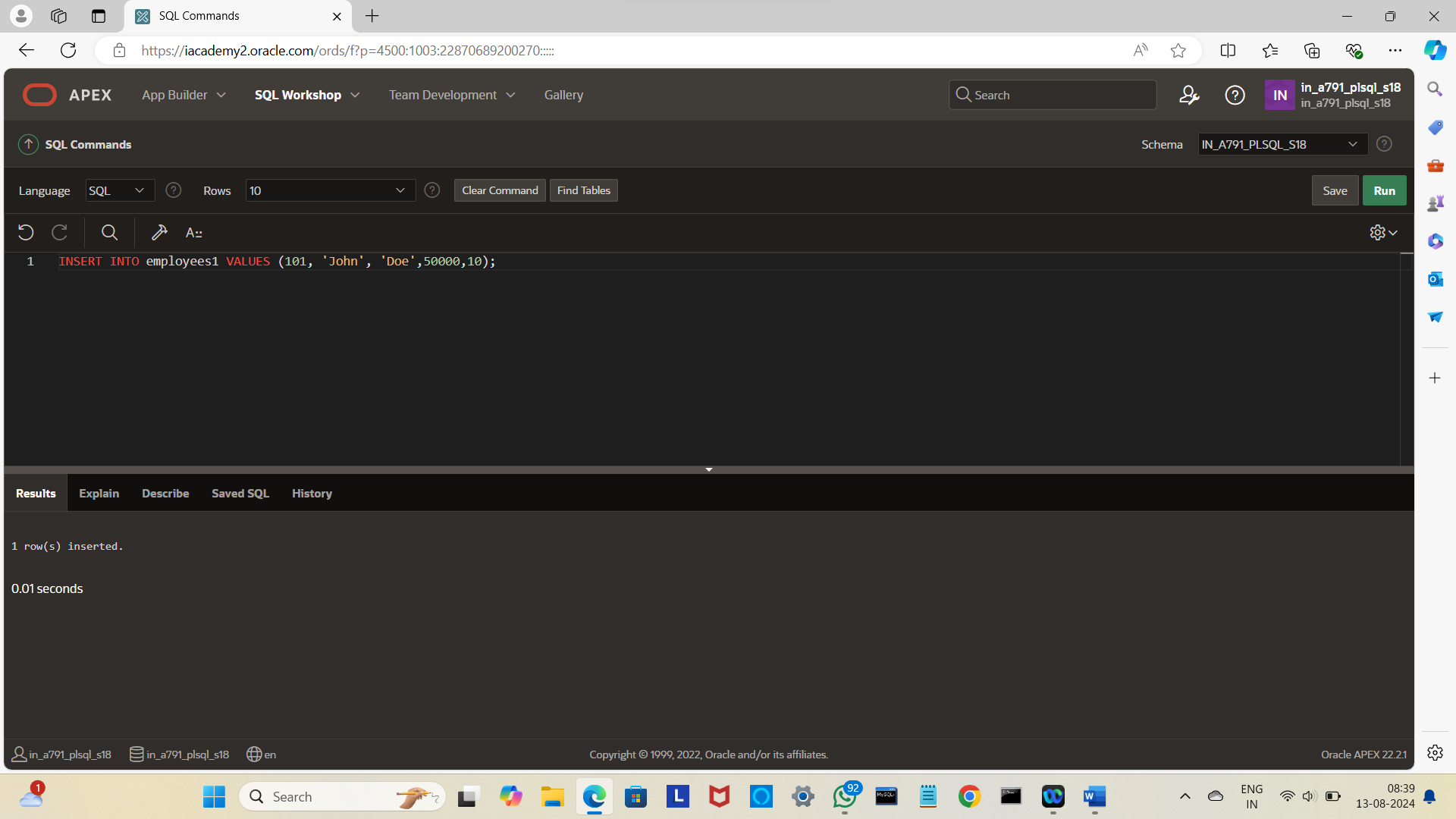
salary NUMBER,

department\_id NUMBER

);



INSERT INTO employees1 VALUES (101, 'John', 'Doe',50000,10);



INSERT INTO employees1 VALUES (103, 'Robert', 'Brown',55000,10);

INSERT INTO employees1 VALUES (102, 'Jane', 'Smith',60000,20);

INSERT INTO employees1 VALUES(104,'Emily','Davis',70000,30);

select\*from employees;

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;

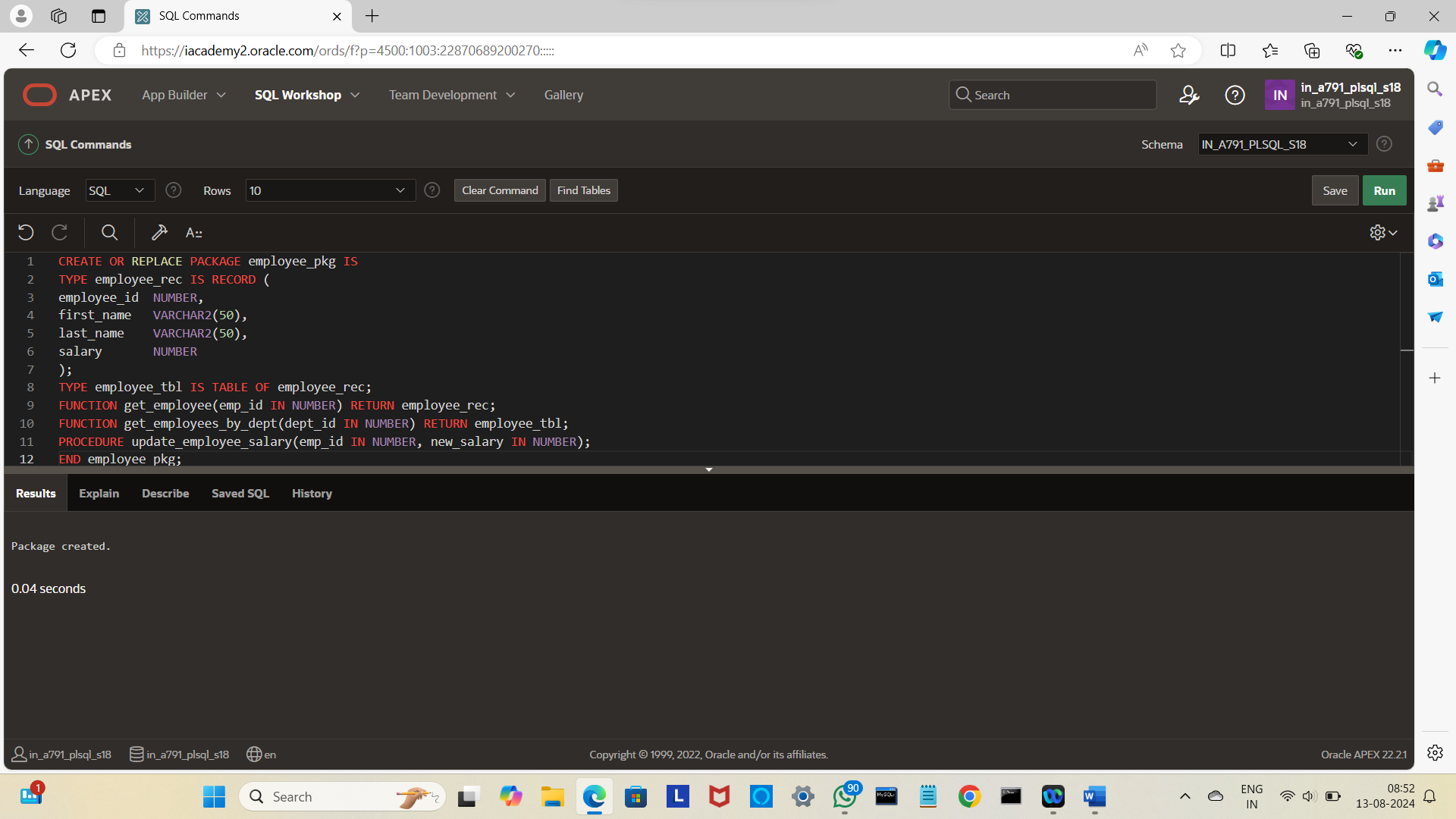
FUNCTION get\_employee(emp\_id IN NUMBER) RETURN employee\_rec;

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;

/



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 employees1

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 employees1

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 employees1

SET salary = new\_salary

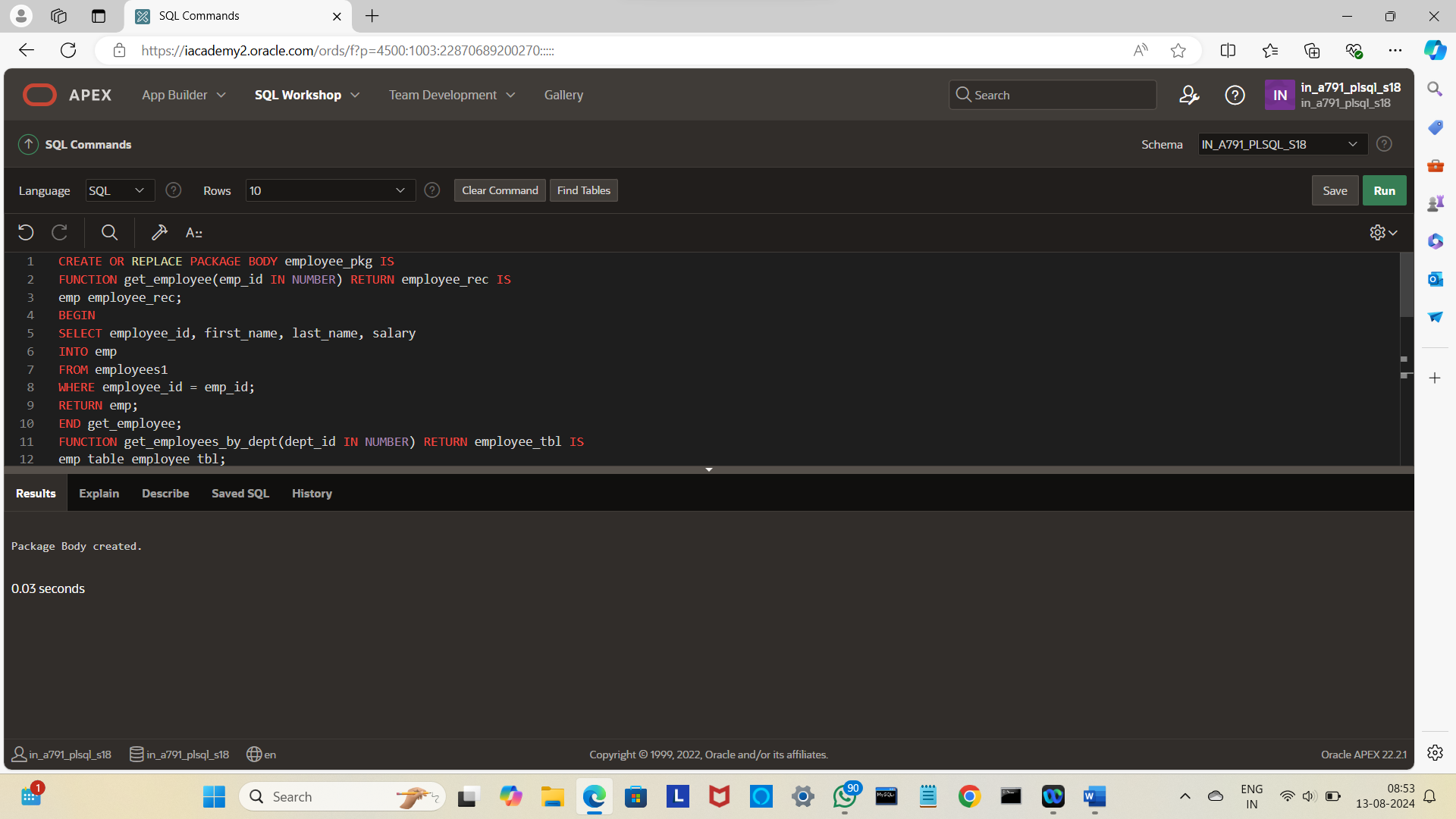
WHERE employee\_id = emp\_id;

COMMIT;

END update\_employee\_salary;

END employee\_pkg;

/



DECLARE

emp\_rec employee\_pkg.employee\_rec;

BEGIN

emp\_rec := employee\_pkg.get\_employee(103);

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

END;

/

