22.In pl/sql using raise application error with user Defined exception.

Create table:

CREATE TABLE employees (

employee\_id NUMBER(10) PRIMARY KEY,

first\_name VARCHAR2(50),

last\_name VARCHAR2(50),

email VARCHAR2(100),

phone\_number VARCHAR2(20),

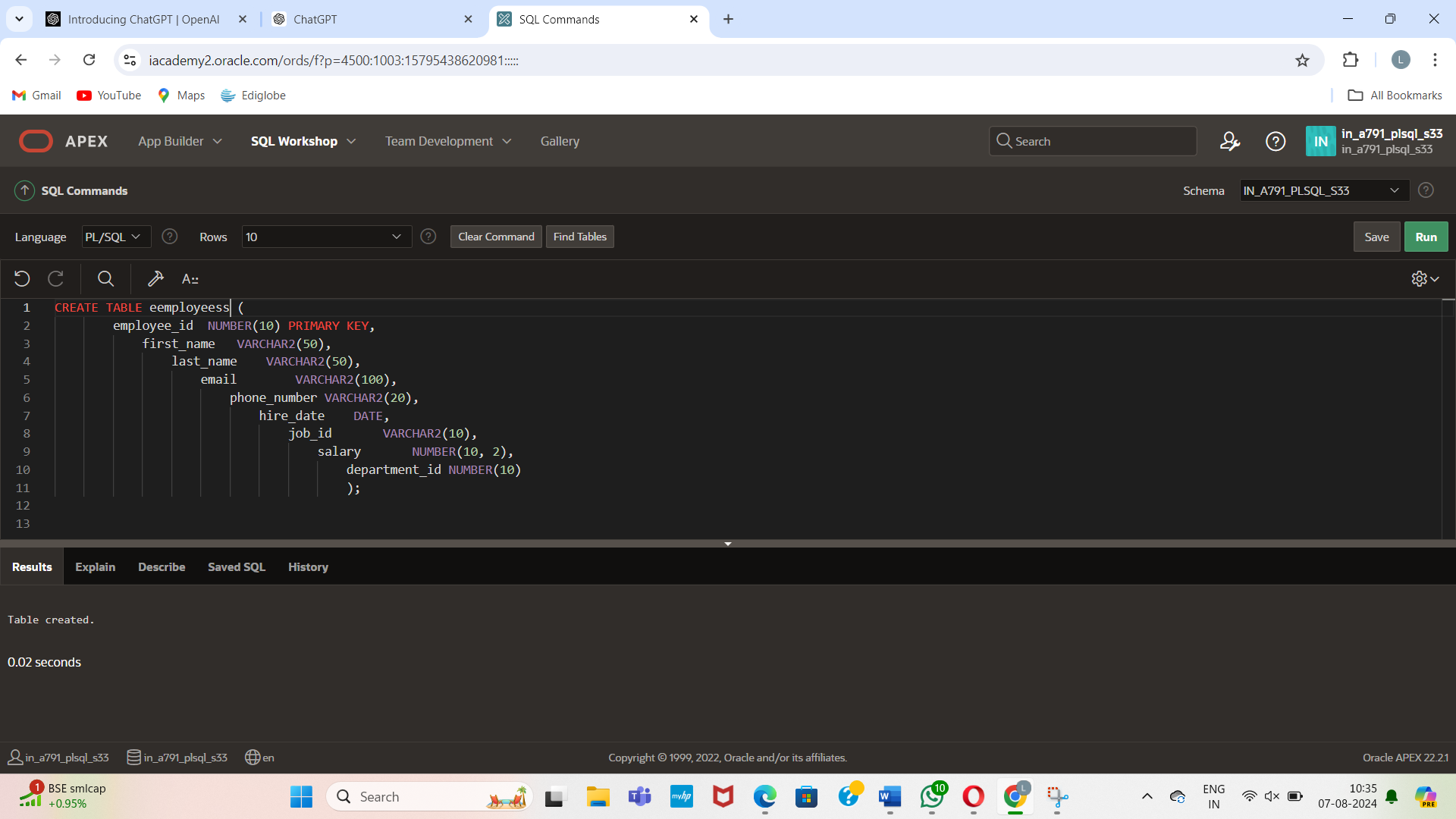
hire\_date DATE,

job\_id VARCHAR2(10),

salary NUMBER(10, 2),

department\_id NUMBER(10)

);



Insert values:

INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id)

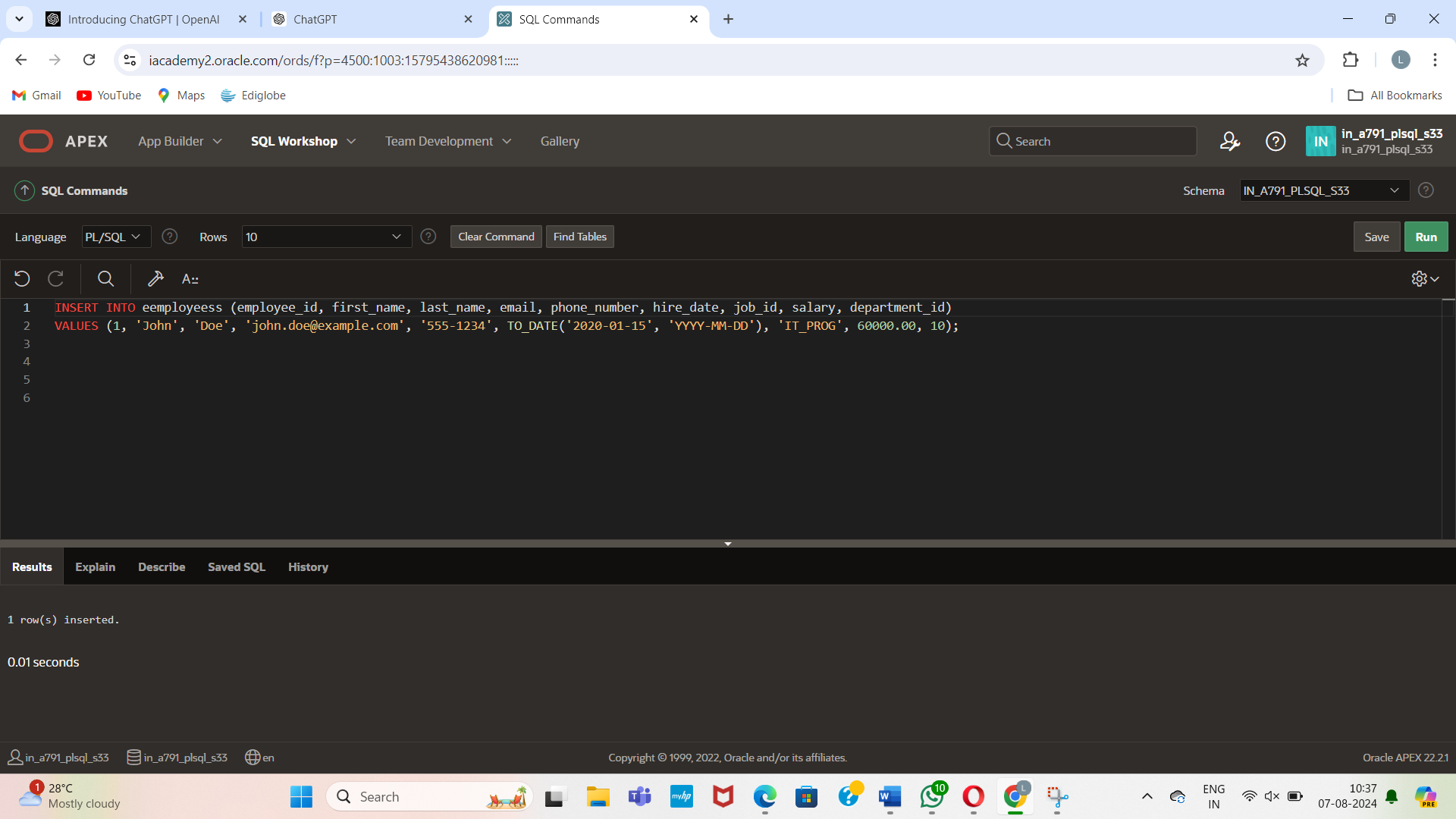
VALUES (1, 'John', 'Doe', 'john.doe@example.com', '555-1234', TO\_DATE('2020-01-15', 'YYYY-MM-DD'), 'IT\_PROG', 60000.00, 10);

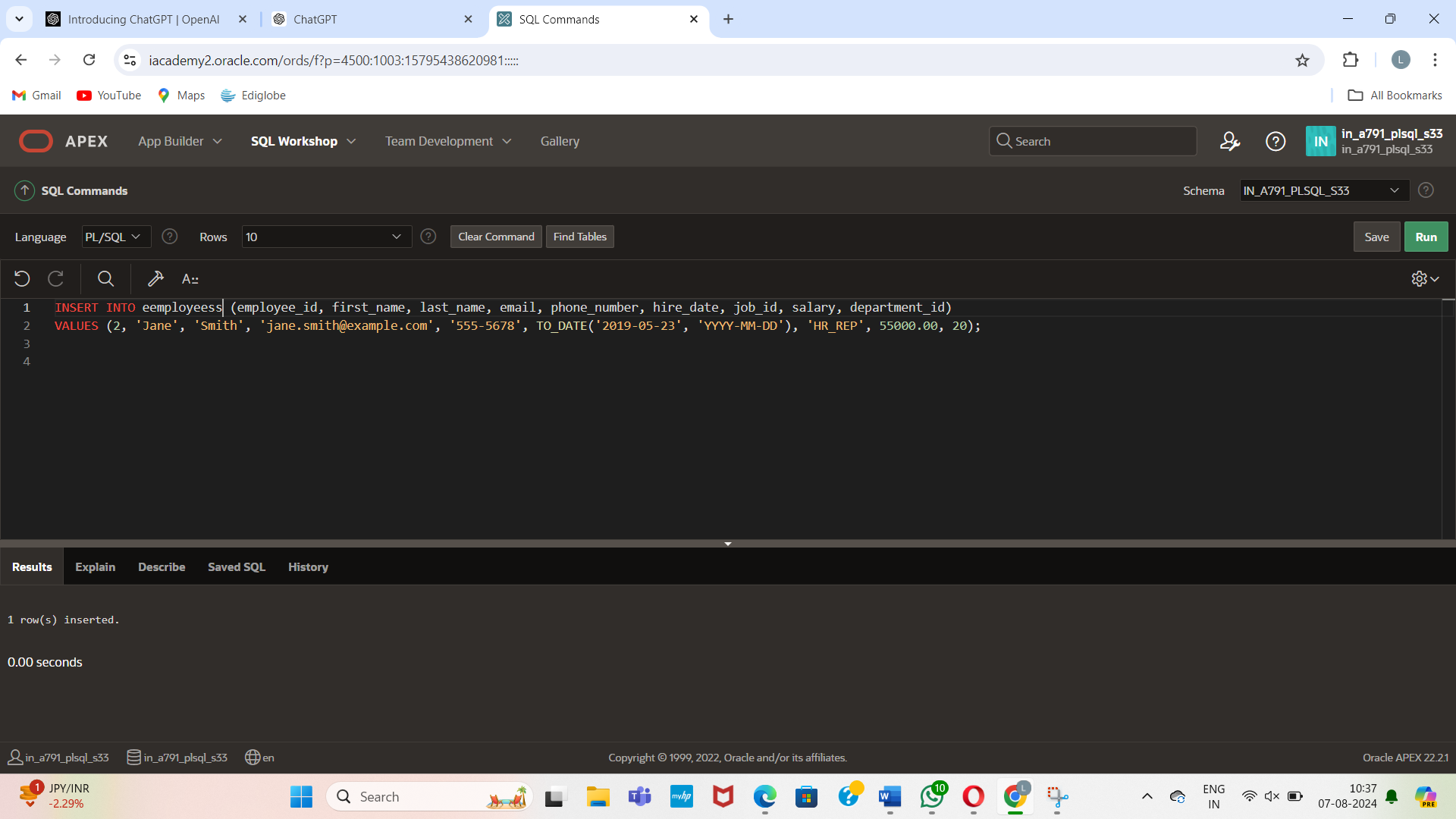
INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id)

VALUES (2, 'Jane', 'Smith', 'jane.smith@example.com', '555-5678', TO\_DATE('2019-05-23', 'YYYY-MM-DD'), 'HR\_REP', 55000.00, 20);

INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, department\_id)

VALUES (3, 'Robert', 'Brown', 'robert.brown@example.com', '555-8765', TO\_DATE('2018-11-30', 'YYYY-MM-DD'), 'SA\_MAN', 70000.00, 30);





Declare:

DECLARE

e\_name EXCEPTION;

PRAGMA EXCEPTION\_INIT(e\_name, -20999);

v\_last\_name employees.last\_name%TYPE := 'Silly Name';

BEGIN

DELETE FROM employees

WHERE last\_name = v\_last\_name;

IF SQL%ROWCOUNT = 0 THEN

RAISE e\_name; -- Raise the custom exception

ELSE

DBMS\_OUTPUT.PUT\_LINE(v\_last\_name || ' deleted');

END IF;

EXCEPTION

WHEN e\_name THEN

DBMS\_OUTPUT.PUT\_LINE('Valid last names are: ');

FOR c1 IN (SELECT DISTINCT last\_name FROM employees)

LOOP

DBMS\_OUTPUT.PUT\_LINE(c1.last\_name);

END LOOP;

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('Error deleting from employees');

END;

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