ASSINGMENT – 28

To create table 1:

CREATE TABLE Books (

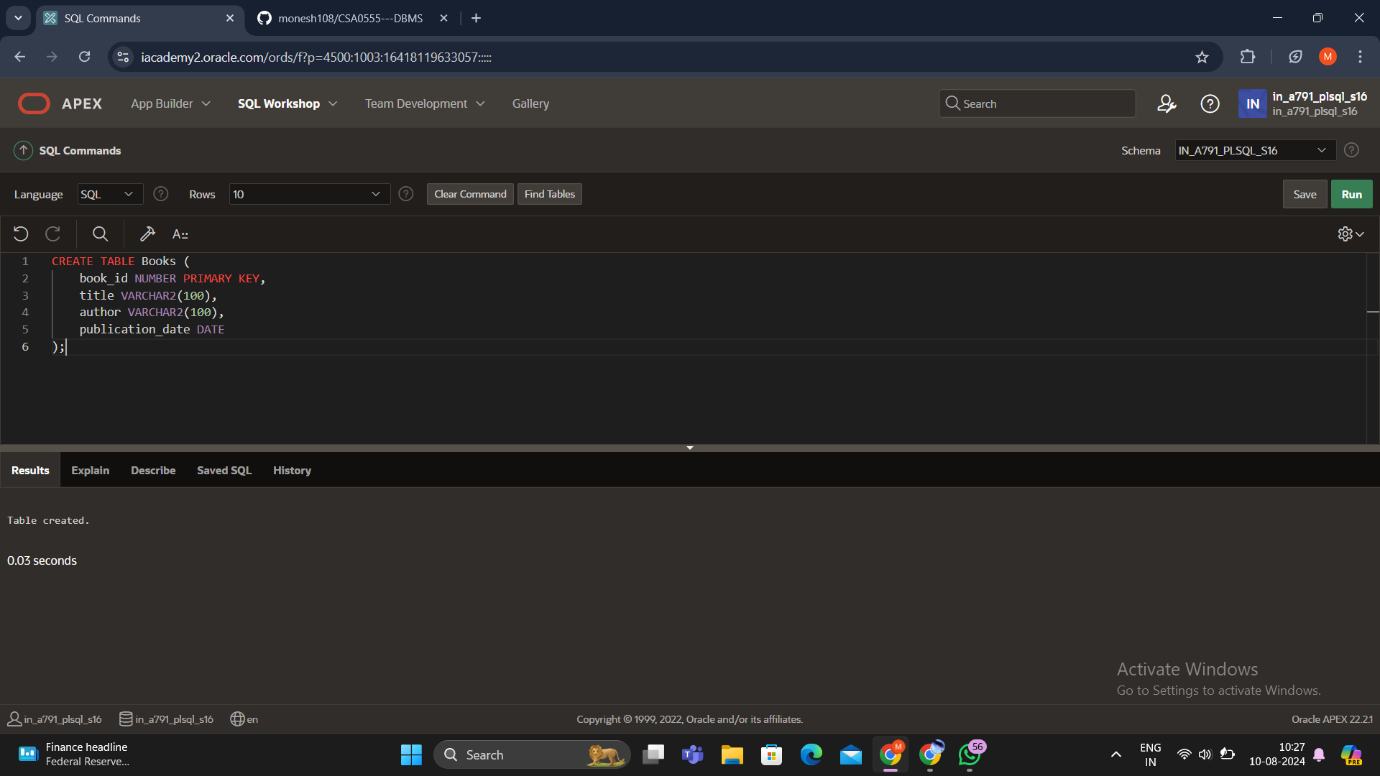
book\_id NUMBER PRIMARY KEY,

title VARCHAR2(100),

author VARCHAR2(100),

publication\_date DATE

);



To create table 2:

CREATE TABLE Borrowing\_Details (

borrowing\_id NUMBER PRIMARY KEY,

book\_id NUMBER REFERENCES Books(book\_id),

borrower\_name VARCHAR2(100),

borrow\_date DATE,

due\_date DATE,

return\_date DATE

);

A screenshot of a computer

Description automatically generated

Inserting values table 1:

INSERT INTO Books (book\_id, title, author, publication\_date)

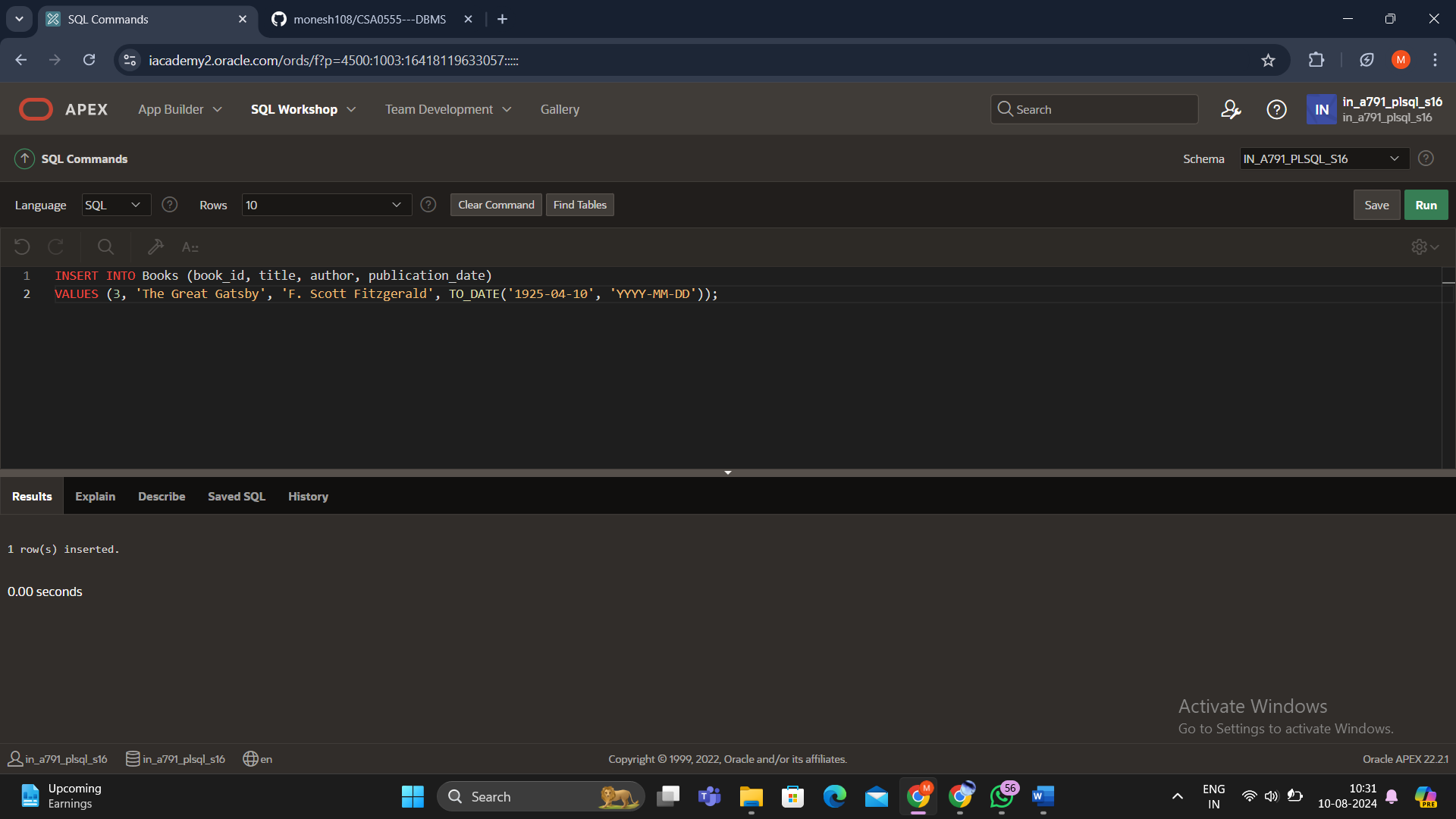
VALUES (1, 'To Kill a Mockingbird', 'Harper Lee', TO\_DATE('1960-07-11', 'YYYY-MM-DD'));

INSERT INTO Books (book\_id, title, author, publication\_date)

VALUES (2, '1984', 'George Orwell', TO\_DATE('1949-06-08', 'YYYY-MM-DD'));

INSERT INTO Books (book\_id, title, author, publication\_date)

VALUES (3, 'The Great Gatsby', 'F. Scott Fitzgerald', TO\_DATE('1925-04-10', 'YYYY-MM-DD'));



Inserting values in table 2:

INSERT INTO Borrowing\_Details (borrowing\_id, book\_id, borrower\_name, borrow\_date, due\_date, return\_date)

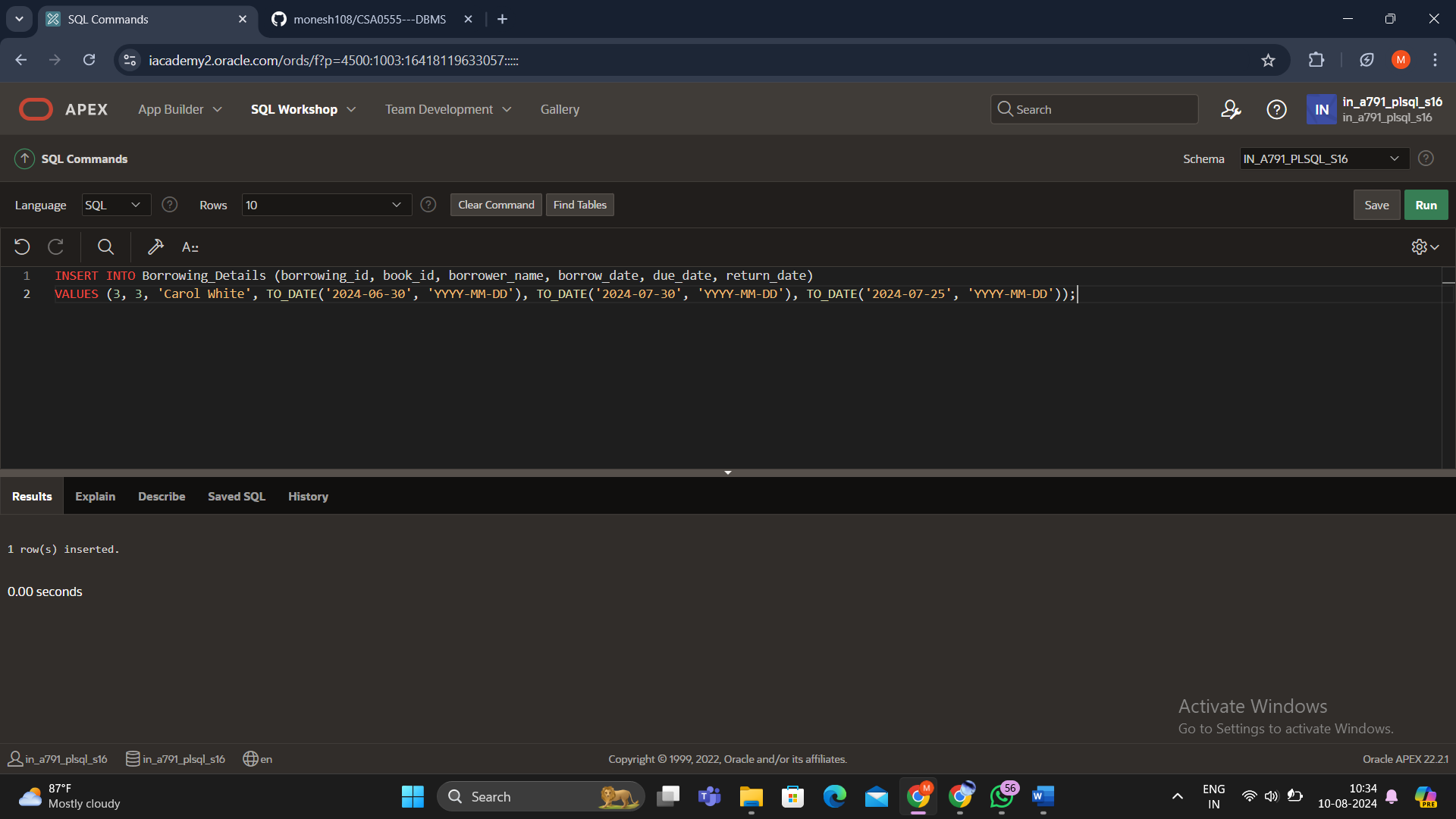
VALUES (1, 1, 'Alice Johnson', TO\_DATE('2024-07-01', 'YYYY-MM-DD'), TO\_DATE('2024-07-15', 'YYYY-MM-DD'), NULL);

INSERT INTO Borrowing\_Details (borrowing\_id, book\_id, borrower\_name, borrow\_date, due\_date, return\_date)

VALUES (2, 2, 'Bob Smith', TO\_DATE('2024-06-20', 'YYYY-MM-DD'), TO\_DATE('2024-07-20', 'YYYY-MM-DD'), NULL);

INSERT INTO Borrowing\_Details (borrowing\_id, book\_id, borrower\_name, borrow\_date, due\_date, return\_date)

VALUES (3, 3, 'Carol White', TO\_DATE('2024-06-30', 'YYYY-MM-DD'), TO\_DATE('2024-07-30', 'YYYY-MM-DD'), TO\_DATE('2024-07-25', 'YYYY-MM-DD'));



CODE:

CREATE OR REPLACE PROCEDURE days\_left\_to\_return (

p\_book\_id IN NUMBER,

p\_days\_left OUT NUMBER

) AS

v\_due\_date DATE;

v\_return\_date DATE;

BEGIN

SELECT due\_date, return\_date

INTO v\_due\_date, v\_return\_date

FROM Borrowing\_Details

WHERE book\_id = p\_book\_id

AND return\_date IS NULL;

IF v\_due\_date IS NOT NULL THEN

p\_days\_left := v\_due\_date - SYSDATE;

ELSE

p\_days\_left := NULL;

END IF;

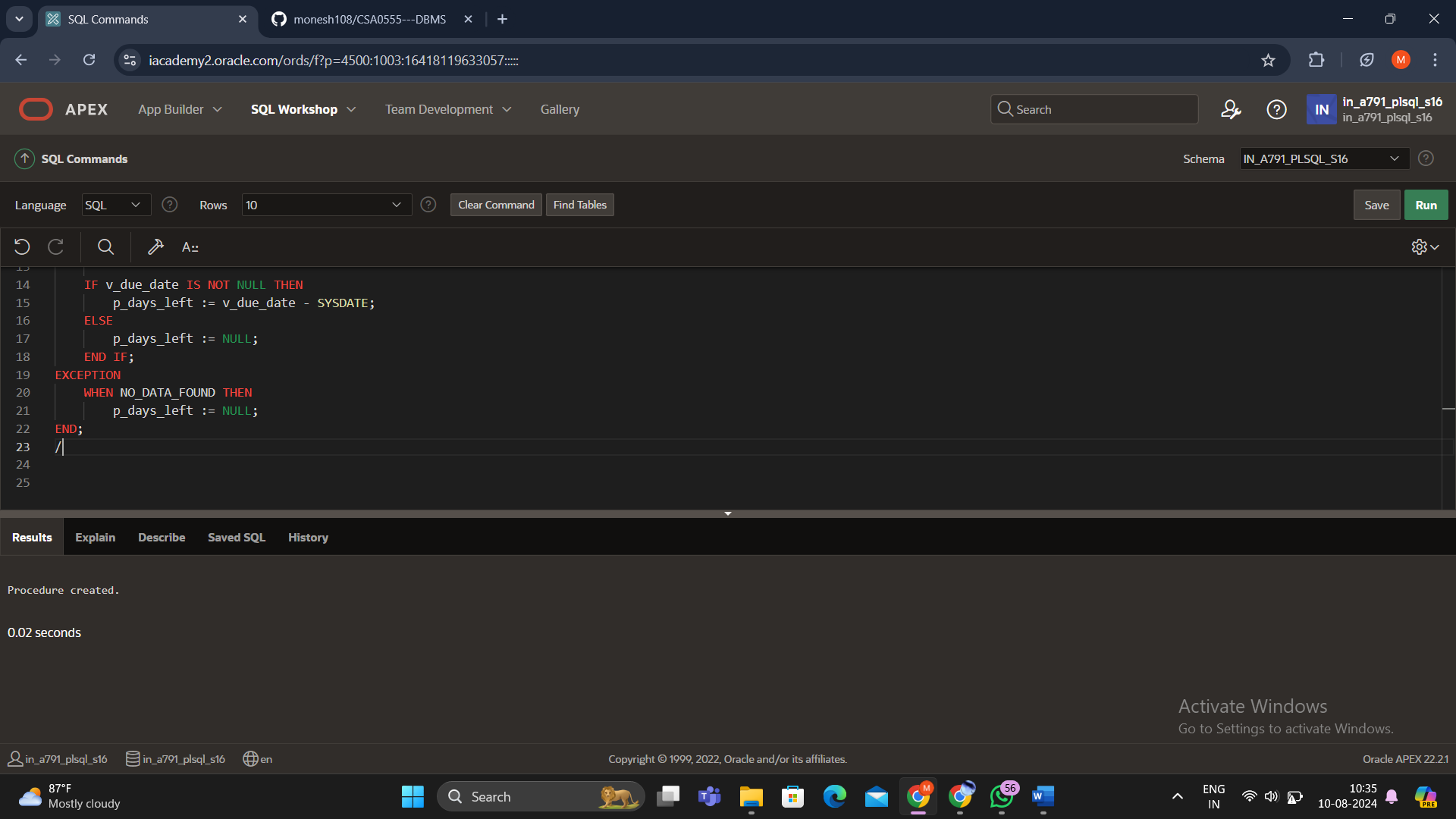
EXCEPTION

WHEN NO\_DATA\_FOUND THEN

p\_days\_left := NULL;

END;

/



DECLARE

days\_left NUMBER;

BEGIN

days\_left\_to\_return(1, days\_left);

IF days\_left IS NOT NULL THEN

DBMS\_OUTPUT.PUT\_LINE('Days Left to Return: ' || days\_left);

ELSE

DBMS\_OUTPUT.PUT\_LINE('Book not found or already returned');

END IF;

END;

/

