ASSIGNMENT – 40

CREATE TABLE 1:

CREATE TABLE Tickets (

Ticket\_ID INT PRIMARY KEY,

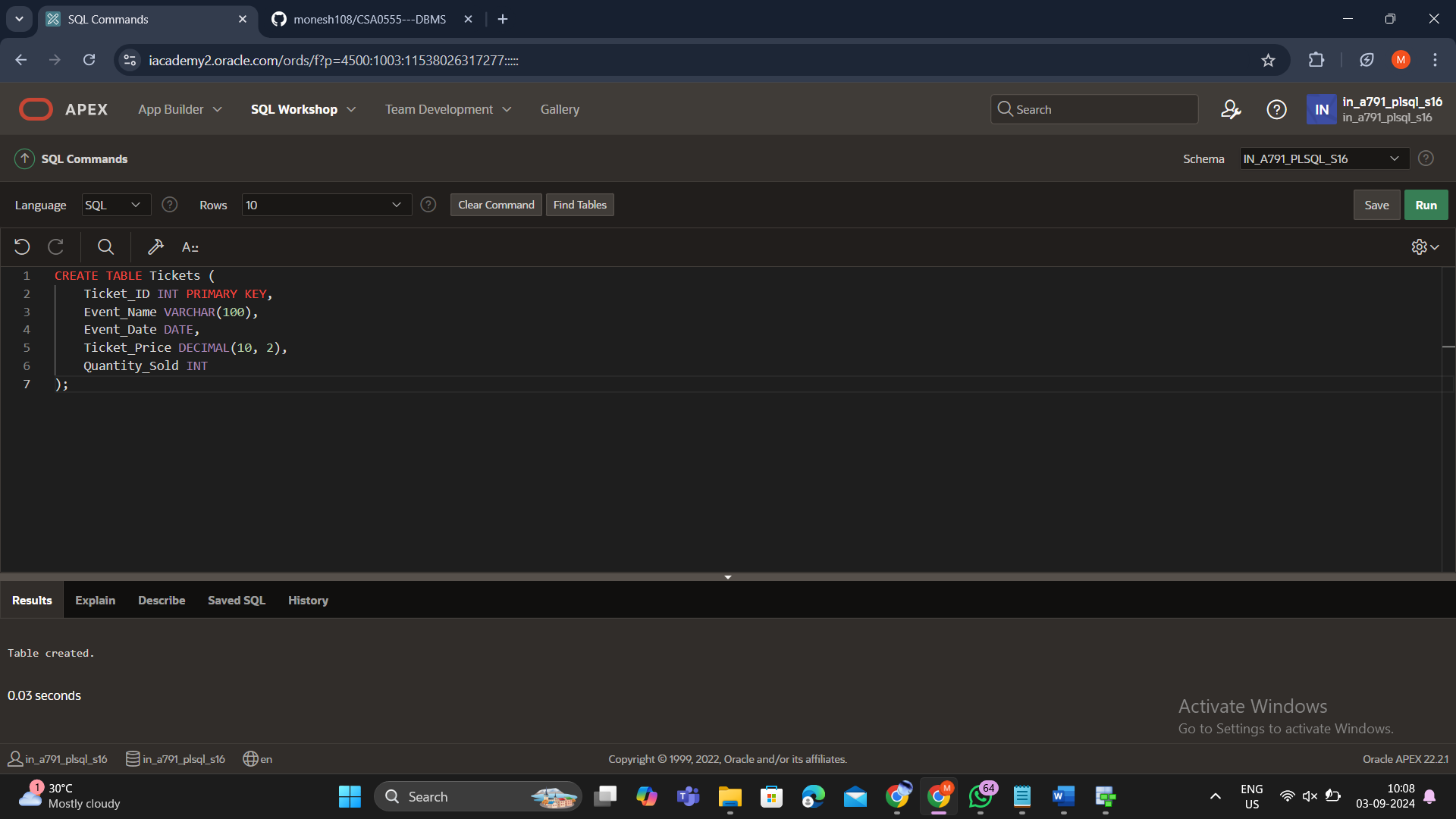
Event\_Name VARCHAR(100),

Event\_Date DATE,

Ticket\_Price DECIMAL(10, 2),

Quantity\_Sold INT

);



Inserting values:

INSERT INTO Tickets (Ticket\_ID, Event\_Name, Event\_Date, Ticket\_Price, Quantity\_Sold)

VALUES (1, 'Concert A', TO\_DATE('2024-08-01', 'YYYY-MM-DD'), 50.00, 200);

INSERT INTO Tickets (Ticket\_ID, Event\_Name, Event\_Date, Ticket\_Price, Quantity\_Sold)

VALUES (2, 'Concert B', TO\_DATE('2024-08-02', 'YYYY-MM-DD'), 30.00, 300);

INSERT INTO Tickets (Ticket\_ID, Event\_Name, Event\_Date, Ticket\_Price, Quantity\_Sold)

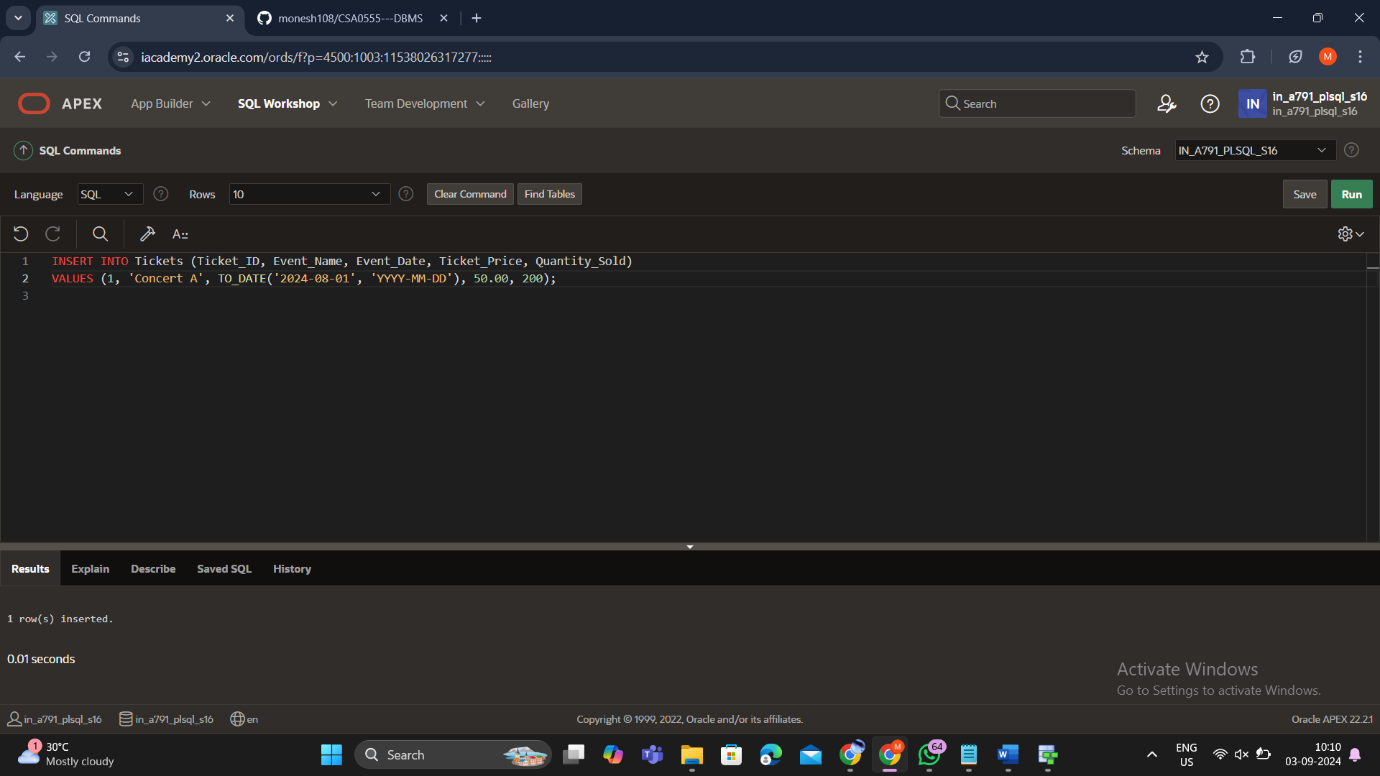
VALUES (3, 'Concert C', TO\_DATE('2024-08-03', 'YYYY-MM-DD'), 40.00, 400);

INSERT INTO Tickets (Ticket\_ID, Event\_Name, Event\_Date, Ticket\_Price, Quantity\_Sold)

VALUES (4, 'Concert D', TO\_DATE('2024-08-04', 'YYYY-MM-DD'), 20.00, 600);

INSERT INTO Tickets (Ticket\_ID, Event\_Name, Event\_Date, Ticket\_Price, Quantity\_Sold)

VALUES (5, 'Concert E', TO\_DATE('2024-08-05', 'YYYY-MM-DD'), 60.00, 700);



CREATE TABLE 2:

CREATE TABLE Expenses (

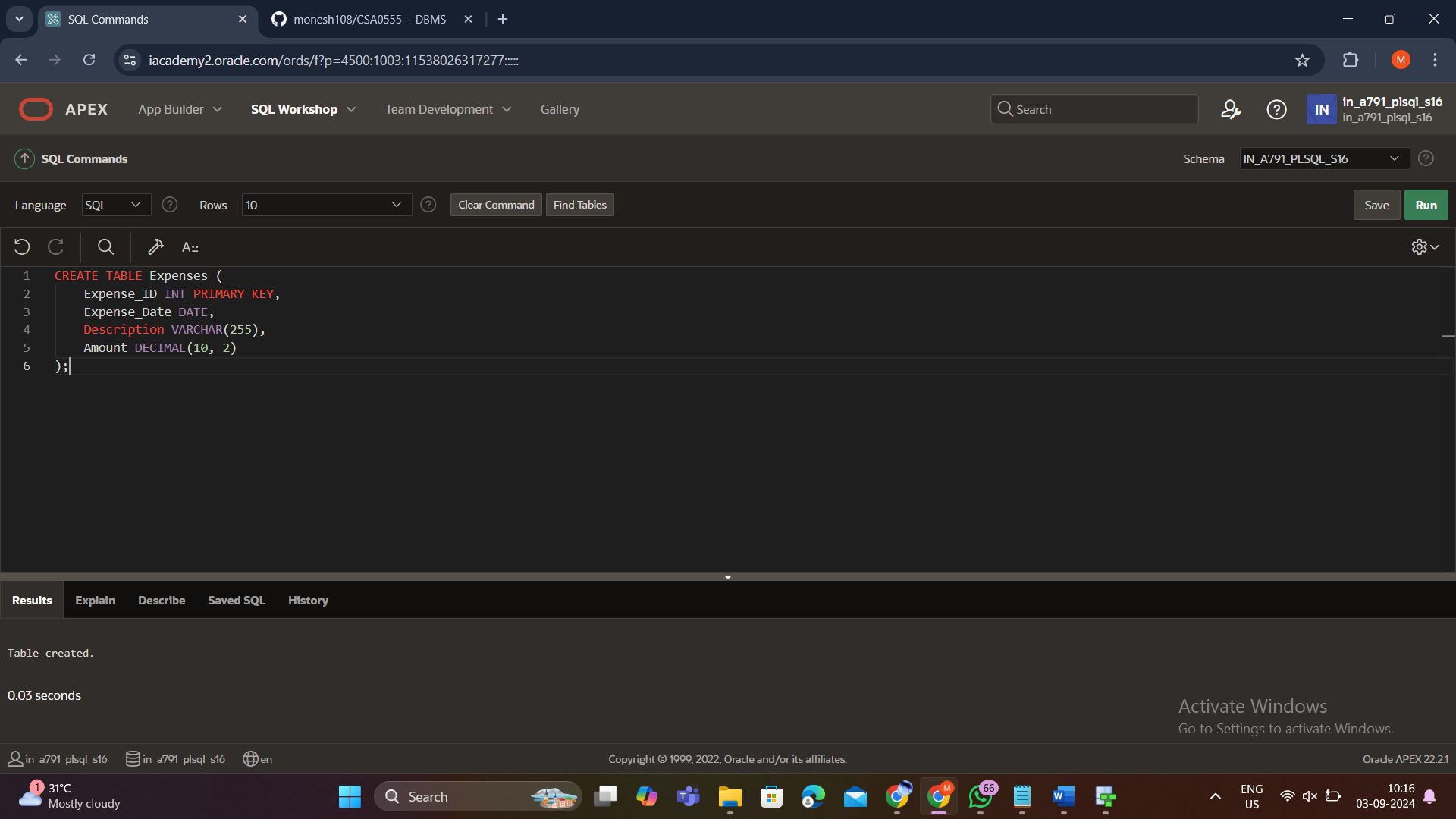
Expense\_ID INT PRIMARY KEY,

Expense\_Date DATE,

Description VARCHAR(255),

Amount DECIMAL(10, 2)

);



Inserting values:

INSERT INTO Expenses (Expense\_ID, Expense\_Date, Description, Amount)

VALUES (1, TO\_DATE('2024-08-01', 'YYYY-MM-DD'), 'Venue Rental', 3000.00);

INSERT INTO Expenses (Expense\_ID, Expense\_Date, Description, Amount)

VALUES (2, TO\_DATE('2024-08-02', 'YYYY-MM-DD'), 'Advertising', 1500.00);

INSERT INTO Expenses (Expense\_ID, Expense\_Date, Description, Amount)

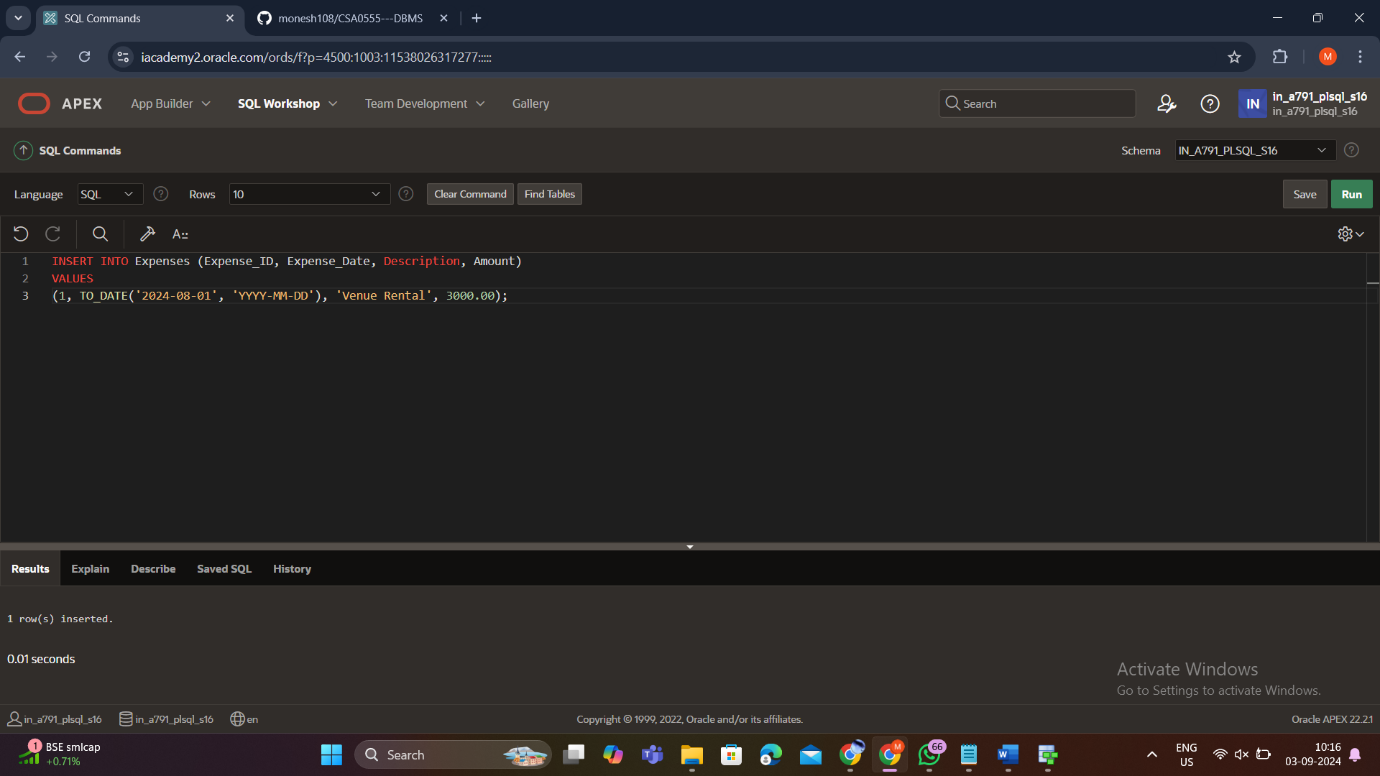
VALUES (3, TO\_DATE('2024-08-03', 'YYYY-MM-DD'), 'Catering', 800.00);

INSERT INTO Expenses (Expense\_ID, Expense\_Date, Description, Amount)

VALUES (4, TO\_DATE('2024-08-04', 'YYYY-MM-DD'), 'Sound System Rental', 1200.00);

INSERT INTO Expenses (Expense\_ID, Expense\_Date, Description, Amount)

VALUES (5, TO\_DATE('2024-08-05', 'YYYY-MM-DD'), 'Staff Salaries', 2000.00);



CREATE TABLE 3:

CREATE TABLE Profit\_Loss (

Profit\_Loss\_ID INT PRIMARY KEY,

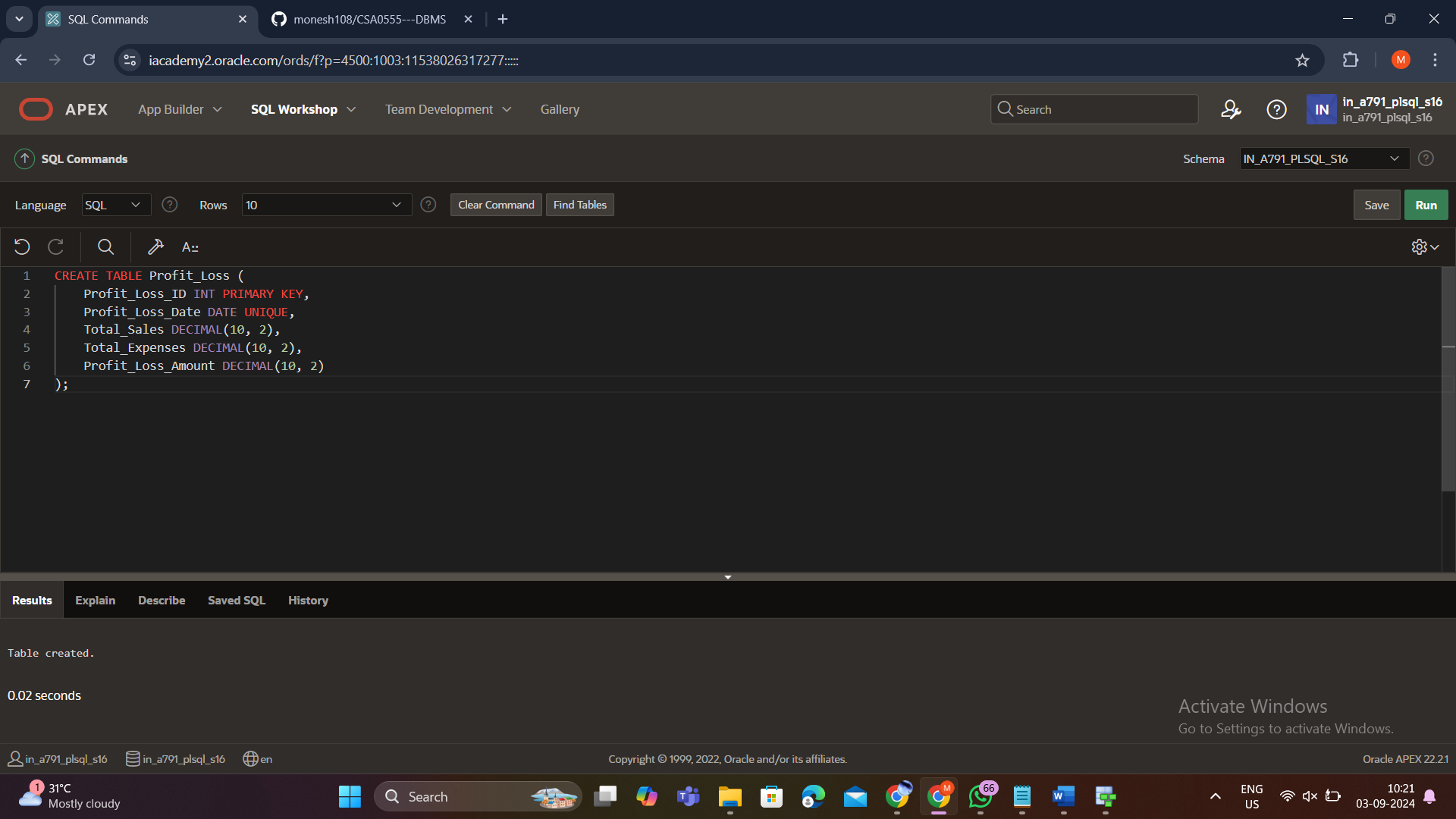
Profit\_Loss\_Date DATE UNIQUE,

Total\_Sales DECIMAL(10, 2),

Total\_Expenses DECIMAL(10, 2),

Profit\_Loss\_Amount DECIMAL(10, 2)

);



Inserting values:

INSERT INTO Profit\_Loss (Profit\_Loss\_ID, Profit\_Loss\_Date, Total\_Sales, Total\_Expenses, Profit\_Loss\_Amount)

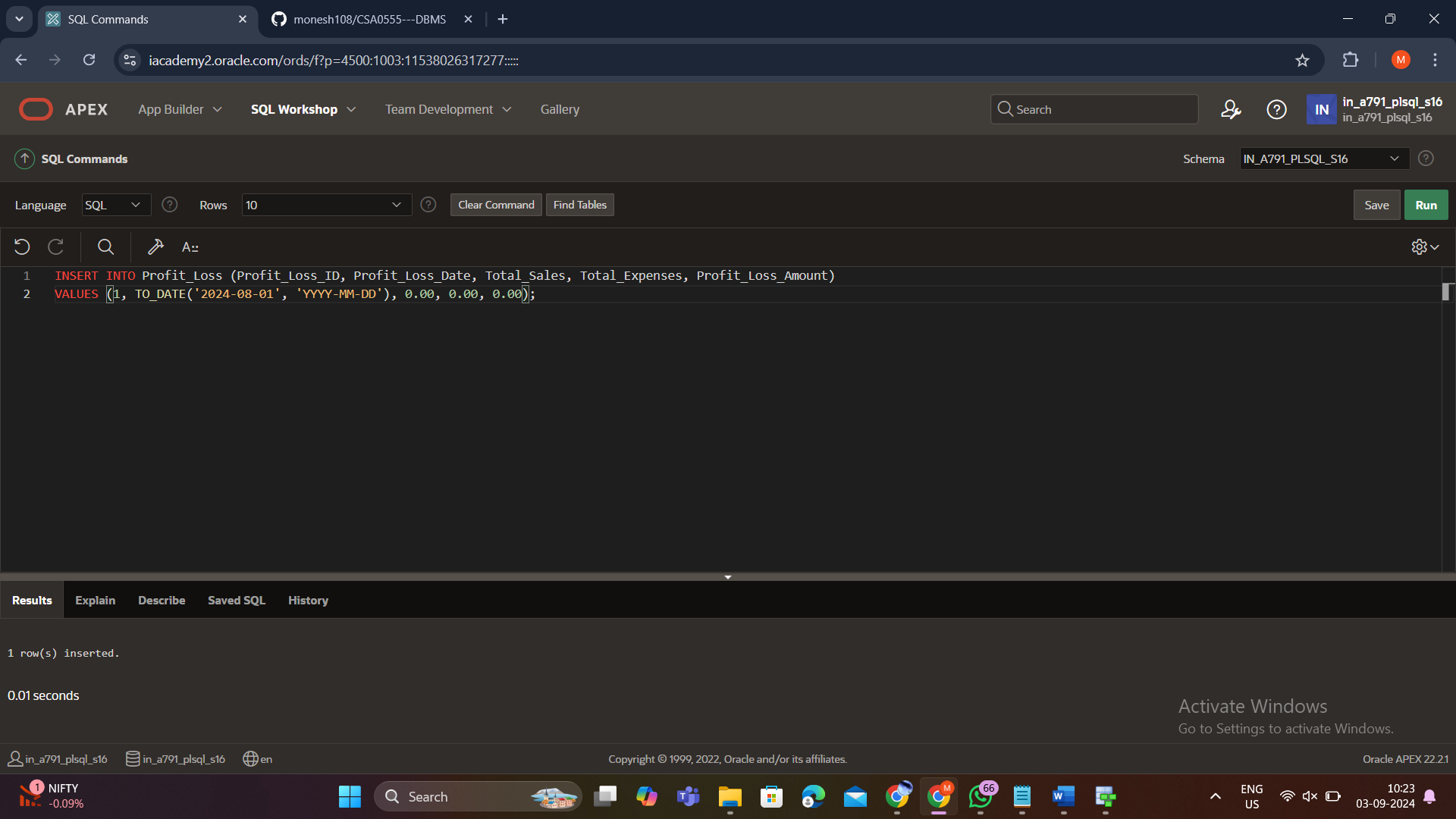
VALUES (1, TO\_DATE('2024-08-01', 'YYYY-MM-DD'), 0.00, 0.00, 0.00);

INSERT INTO Profit\_Loss (Profit\_Loss\_ID, Profit\_Loss\_Date, Total\_Sales, Total\_Expenses, Profit\_Loss\_Amount)

VALUES (2, TO\_DATE('2024-08-02', 'YYYY-MM-DD'), 0.00, 0.00, 0.00);

INSERT INTO Profit\_Loss (Profit\_Loss\_ID, Profit\_Loss\_Date, Total\_Sales, Total\_Expenses, Profit\_Loss\_Amount)

VALUES (3, TO\_DATE('2024-08-03', 'YYYY-MM-DD'), 0.00, 0.00, 0.00);



CODE:

CREATE OR REPLACE PROCEDURE Calculate\_Profit\_Loss\_By\_Date(p\_date DATE) IS

v\_total\_sales NUMBER := 0;

v\_total\_expenses NUMBER := 0;

v\_profit\_loss NUMBER;

BEGIN

-- Calculate total sales for the given date

BEGIN

SELECT NVL(SUM(Ticket\_Price \* Quantity\_Sold), 0)

INTO v\_total\_sales

FROM Tickets

WHERE Event\_Date = p\_date;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

v\_total\_sales := 0;

END;

-- Calculate total expenses for the given date

BEGIN

SELECT NVL(SUM(Amount), 0)

INTO v\_total\_expenses

FROM Expenses

WHERE Expense\_Date = p\_date;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

v\_total\_expenses := 0;

END;

-- Calculate profit or loss

v\_profit\_loss := v\_total\_sales - v\_total\_expenses;

-- Insert or update the Profit\_Loss table

MERGE INTO Profit\_Loss pl

USING (SELECT p\_date AS Profit\_Loss\_Date FROM dual) d

ON (pl.Profit\_Loss\_Date = d.Profit\_Loss\_Date)

WHEN MATCHED THEN

UPDATE SET

Total\_Sales = v\_total\_sales,

Total\_Expenses = v\_total\_expenses,

Profit\_Loss\_Amount = v\_profit\_loss

WHEN NOT MATCHED THEN

INSERT (Profit\_Loss\_ID, Profit\_Loss\_Date, Total\_Sales, Total\_Expenses, Profit\_Loss\_Amount)

VALUES (Profit\_Loss\_SEQ.NEXTVAL, p\_date, v\_total\_sales, v\_total\_expenses, v\_profit\_loss);

COMMIT;

EXCEPTION

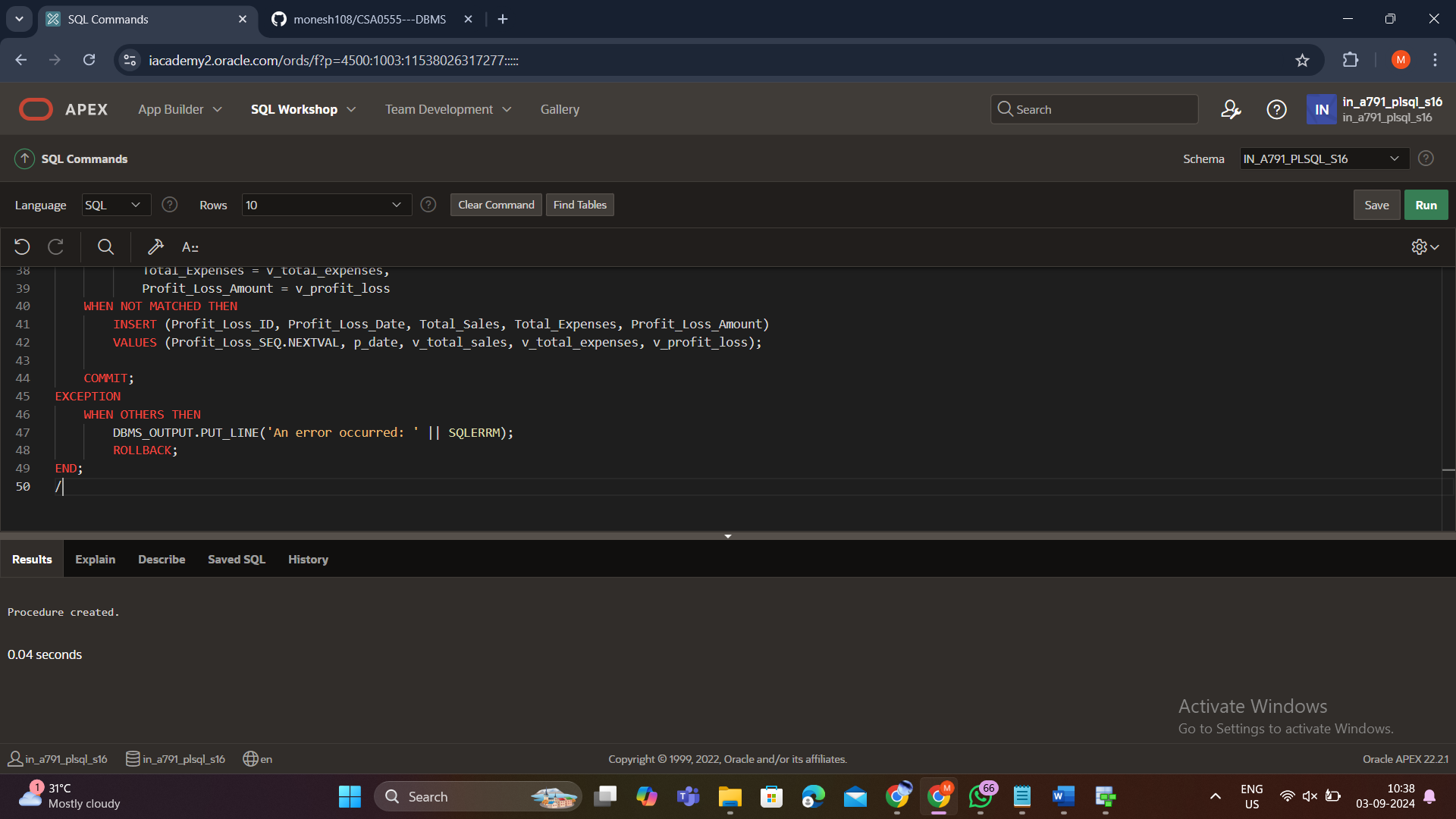
WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('An error occurred: ' || SQLERRM);

ROLLBACK;

END;

/



OUTPUT:

BEGIN

Calculate\_Profit\_Loss\_By\_Date(TO\_DATE('2024-09-03', 'YYYY-MM-DD'));

END;

/

A screenshot of a computer

Description automatically generated