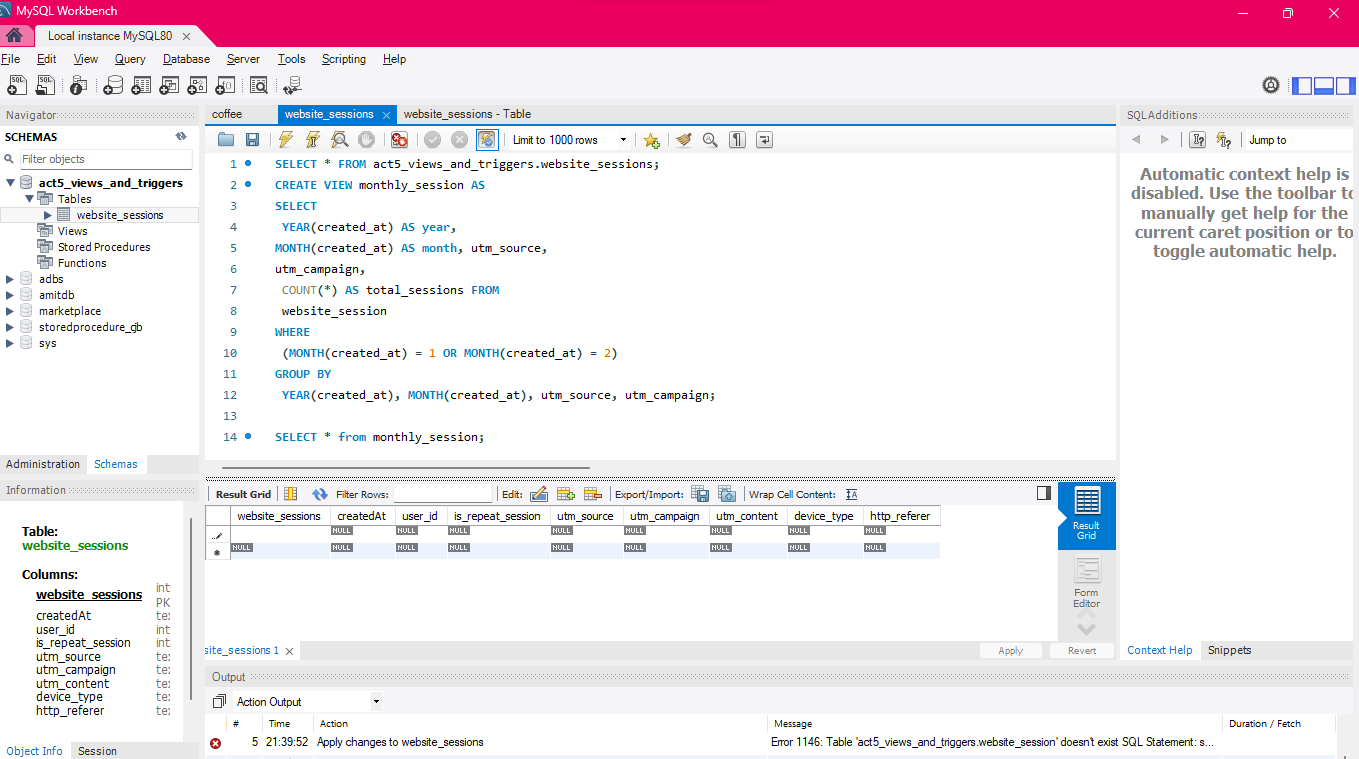
**Bagares, Christine Jhoy**

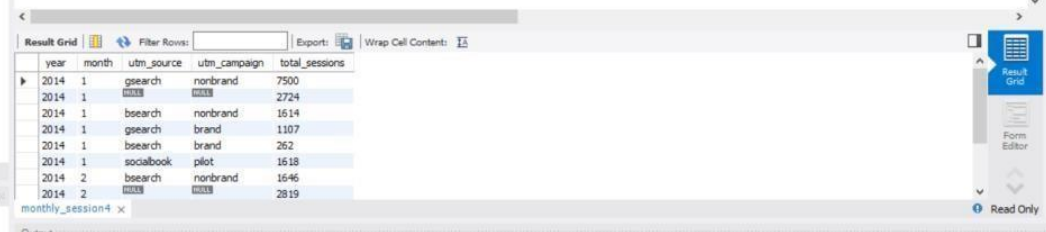
**BSIT-NS-3B**

**Activity 5**

**Views and Triggers**

1. **Views**
2. **Create a table called website\_session using structure of cvs files**

****

****

**VIEW**SELECT \* FROM act5\_views\_and\_triggers.website\_sessions;

CREATE VIEW monthly\_session AS

SELECT

YEAR(created\_at) AS year,

MONTH(created\_at) AS month, utm\_source,

utm\_campaign,

COUNT(\*) AS total\_sessions FROM

website\_session

WHERE

(MONTH(created\_at) = 1 OR MONTH(created\_at) = 2)

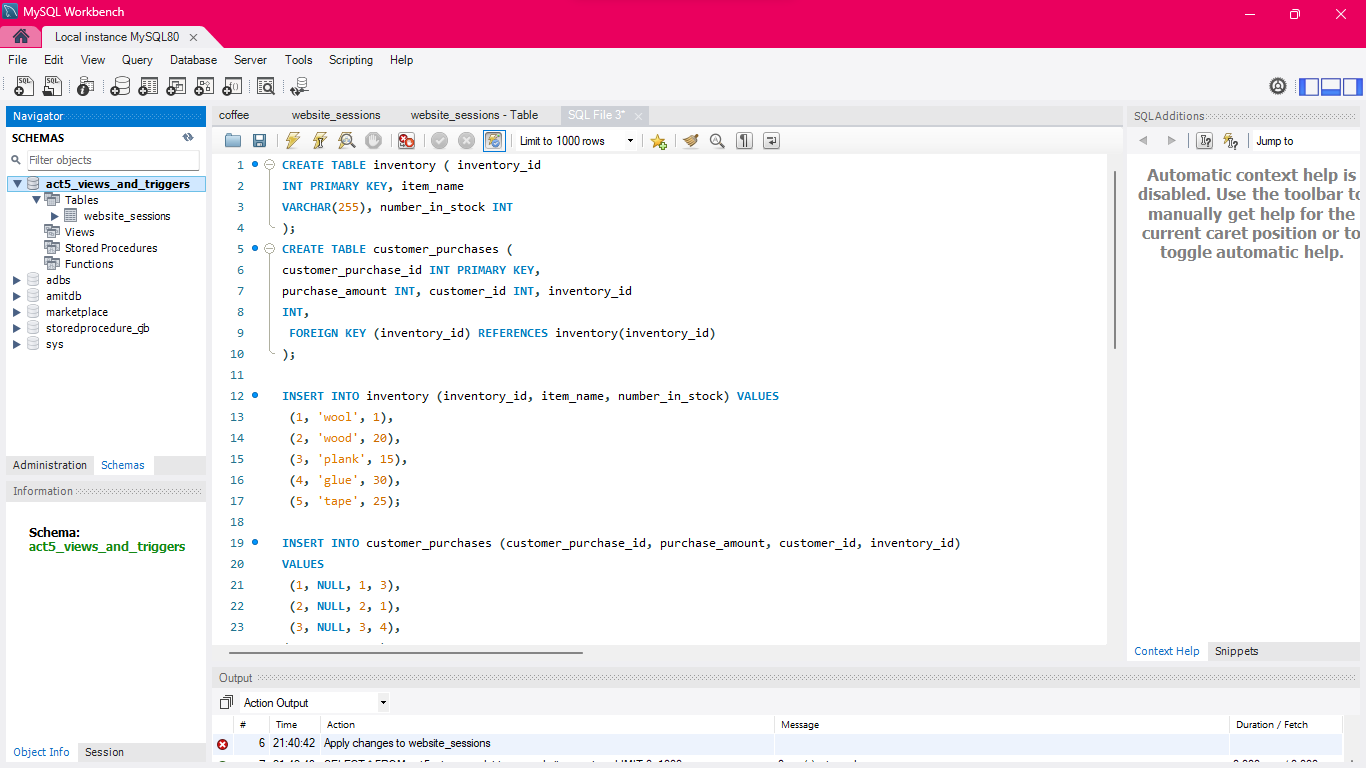
GROUP BY

YEAR(created\_at), MONTH(created\_at), utm\_source, utm\_campaign;

SELECT \* from monthly\_session;

SELECT \* from monthly\_session;

1. **Create a view summarizing performance for January and February: Display the number of sessions sliced by year, month, utm\_source, and utm\_campaign if possible.**

****

**TRIGGERS**

CREATE TABLE inventory ( inventory\_id

INT PRIMARY KEY, item\_name

VARCHAR(255), number\_in\_stock INT

);

CREATE TABLE customer\_purchases (

customer\_purchase\_id INT PRIMARY KEY,

purchase\_amount INT, customer\_id INT, inventory\_id

INT,

FOREIGN KEY (inventory\_id) REFERENCES inventory(inventory\_id)

);

INSERT INTO inventory (inventory\_id, item\_name, number\_in\_stock) VALUES

(1, 'wool', 1),

(2, 'wood', 20),

(3, 'plank', 15),

(4, 'glue', 30),

(5, 'tape', 25);

INSERT INTO customer\_purchases (customer\_purchase\_id, purchase\_amount, customer\_id, inventory\_id)

VALUES

(1, NULL, 1, 3),

(2, NULL, 2, 1),

(3, NULL, 3, 4),

(4, NULL, 4, 2);

DELIMITER //

CREATE TRIGGER purchase\_Update\_Inventory

AFTER INSERT ON customer\_purchases FOR EACH ROW

BEGIN

UPDATE inventory

SET number\_in\_stock = number\_in\_stock - 1

WHERE inventory\_id = NEW. inventory\_id;

END;

//

DELIMITER ;

INSERT INTO customer\_purchases (customer\_purchase\_id, purchase\_amount, customer\_id, inventory\_id)

VALUES (5, 1, 1, 3),

(6, NULL, NULL, 4);

DELIMITER //

CREATE TRIGGER purchase\_Update\_Inventory

AFTER INSERT ON customer\_purchases FOR EACH ROW

BEGIN

DECLARE new\_stock INT;

SET new\_stock = (SELECT number\_in\_stock - 1 FROM inventory WHERE inventory\_id =

NEW.inventory\_id);

UPDATE inventory SET number\_in\_stock = GREATEST(new\_stock, 0) WHERE inventory\_id =

NEW.inventory\_id;

IF new\_stock <= 0 THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'Error: Insufficient stock.'; END IF;

END;

DELIMITER ;

INSERT INTO customer\_purchases (customer\_purchase\_id, purchase\_amount, customer\_id, inventory\_id)

VALUES (7, 1, 5, 1); select \* from inventory;