Group A: Lab Assignment No.7

Write a database trigger on WorkCenters table. The System should keep track of the records that are being inserted. The capacity of work inserted in WorkCenters table should be reflected in WorkCenterStats table as a total capacity.

Solution:

CREATE TABLE WorkCenters

(id INT NOT NULL,

 name VARCHAR(100) NOT NULL,

capacity INT NOT NULL);

CREATE TABLE WorkCenterStats (totalCapacity INT NOT NULL);

```sql
DELIMITER $$

CREATE TRIGGER before_workcenters_insert
BEFORE INSERT
ON WorkCenters FOR EACH ROW
BEGIN
    DECLARE rowcount INT;

    SELECT COUNT(*)
    INTO rowcount
    FROM WorkCenterStats;

    IF rowcount > 0 THEN
        UPDATE WorkCenterStats
        SET totalCapacity = totalCapacity + new.capacity;
    ELSE
        INSERT INTO WorkCenterStats(totalCapacity)
        VALUES(new.capacity);
    END IF;

END $$

DELIMITER ;
```