ASSIGNMENT – 5

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COURSE: DATABASE MANAGEMENT SYSTEM

COURSE CODE: CSA0593

SCENERIO:

 Create a stored procedure that: Takes an item\_id as input. Checks if the auction has ended based on auction\_end\_date. If the auction has ended, sets the item status to closed and returns the highest bid information (user\_id, bid\_amount). If the auction is still active, return a message indicating it is still ongoing.

SQL

CREATE PROCEDURE check\_auction\_status(IN p\_item\_id INT)

BEGIN

DECLARE v\_end\_date DATETIME;

DECLARE v\_highest\_bidder INT;

DECLARE v\_highest\_bid DECIMAL(10,2);

-- Get the auction end date for the given item

SELECT end\_time INTO v\_end\_date FROM auctions WHERE item\_id = p\_item\_id;

-- Check if the auction has ended

IF NOW() >= v\_end\_date THEN

-- Update the item status to closed

UPDATE items SET status = 'closed' WHERE item\_id = p\_item\_id;

-- Get the highest bidder and bid amount

SELECT highest\_bidder, highest\_bid INTO v\_highest\_bidder, v\_highest\_bid FROM auctions WHERE item\_id = p\_item\_id;

-- Return the highest bid information

SELECT v\_highest\_bidder AS highest\_bidder\_id, v\_highest\_bid AS highest\_bid\_amount;

ELSE

SELECT 'Auction is still ongoing.' AS message;

END IF;

END;

Explanation:

1. Parameter Declaration: Declares the input parameter p\_item\_id.
2. Retrieve Auction End Date: Queries the auctions table to get the end\_time for the specified item\_id.
3. Check Auction Status: Compares the current timestamp with the end\_time to determine if the auction has ended.
4. Update Item Status: If the auction has ended, updates the status of the item in the items table to closed.
5. Retrieve Highest Bid Information: Queries the auctions table to get the highest\_bidder and highest\_bid for the item.
6. Return Result: Returns the highest\_bidder\_id and highest\_bid\_amount if the auction has ended, or a message indicating the auction is still ongoing.

By executing this stored procedure with the appropriate item ID, you can check the status of an auction and retrieve the necessary information.

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| Step | Action |
| 1 | Parameter Declaration: Declares the input parameter p\_item\_id. |
| 2 | Retrieve Auction End Date: Queries the auctions table to get the end\_time for the specified item\_id. |
| 3 | Check Auction Status: Compares the current timestamp with the end\_time to determine if the auction has ended. |
| 4 | Update Item Status: If the auction has ended, updates the status of the item in the items table to closed. |
| 5 | Retrieve Highest Bid Information: Queries the auctions table to get the highest\_bidder and highest\_bid for the item. |
| 6 | Return Result: If the auction has ended, returns the highest\_bidder\_id and highest\_bid\_amount. Otherwise, returns a message indicating the auction is still ongoing. |