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-- Create tables
CREATE TABLE users (
    id INT PRIMARY KEY,
    name VARCHAR(100),
    email VARCHAR(100) UNIQUE
);

CREATE TABLE orders (
    id INT PRIMARY KEY,
    user_id INT,
    amount DECIMAL(10, 2),
    order_date DATE,
    FOREIGN KEY (user_id) REFERENCES users(id)
);

-- Insert sample data
INSERT INTO users (id, name, email) VALUES
(1, 'Alice', 'alice@example.com'),
(2, 'Bob', 'bob@example.com');

INSERT INTO orders (id, user_id, amount, order_date) VALUES
(1, 1, 99.99, '2025-05-01'),
(2, 1, 150.00, '2025-06-01'),
(3, 2, 200.00, '2025-06-02');

-- Stored procedure to get total order amount for a user
DELIMITER //
CREATE PROCEDURE GetUserTotalOrders(IN userId INT, OUT totalAmount DECIMAL(10,2))
BEGIN
    SELECT SUM(amount) INTO totalAmount FROM orders WHERE user_id = userId;
END //
DELIMITER ;

-- View to show user and their latest order
CREATE VIEW UserLatestOrder AS
SELECT u.id AS user_id, u.name, o.id AS order_id, o.amount, o.order_date
FROM users u
LEFT JOIN orders o ON u.id = o.user_id
WHERE o.order_date = (
    SELECT MAX(order_date) FROM orders WHERE user_id = u.id
);

-- Trigger to update order_date on update to current date
DELIMITER //
CREATE TRIGGER UpdateOrderTimestamp BEFORE UPDATE ON orders
FOR EACH ROW
BEGIN
    SET NEW.order_date = CURDATE();
END //
DELIMITER ;

```