

Question 2

```
1 CREATE TRIGGER before_inventory_update
2 BEFORE UPDATE ON inventory
3 FOR EACH ROW
4 SET VERSION = VERSION + 1
```

Question 3

Delimiter \$\$

```
CREATE PROCEDURE update_inventory(
IN product_id INT (11),
IN new_quantity INT(11),
IN new_price DECIMAL (10.2) )

BEGIN
UPDATE inventory
SET quantity = new_quantity,
    price = new_price,
    last_updated = NOW()
    WHERE product_id=product_id;
END $$
```

Question 4

```
CREATE EVENT daily_inventory_check
ON SCHEDULE EVERY 1 DAY
STARTS '2024-02-06 00:00:00'
DO
INSERT INTO low_stock_alerts (product_id,alert_time)
SELECT product_id, NOW()
FROM inventory
WHERE quantity < 10;
```

Question 5

```
CREATE TABLE low_stock_alerts (
    alert_id INT AUTO_INCREMENT PRIMARY KEY,
    product_id INT NOT NULL,
    product_name VARCHAR(255),
    quantity INT,
    alert_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (product_id) REFERENCES inventory(product_id)
);
```

Question 6

```
SELECT * FROM inventory;
CALL update_inventory(4,10,20.1);
SELECT * FROM inventory;
```

#	product_id	product_name	quantity	price	last_updated	version
1	1	Laptop	50	999,99	2025-02-06 10:27:16	1
2	2	Smartphone	100	699,99	2025-02-06 10:27:16	1
3	3	Tablet	75	399,99	2025-02-06 10:27:16	1
4	4	Headphones	150	49,99	2025-02-06 10:27:16	1
5	5	Smartwatch	60	199,99	2025-02-06 10:27:16	1
6	6	Camera	30	499,99	2025-02-06 10:27:16	1
7	7	Printer	40	89,99	2025-02-06 10:27:16	1
8	8	Monitor	25	149,99	2025-02-06 10:27:16	1
9	9	Keyboard	200	29,99	2025-02-06 10:27:16	1
10	10	Mouse	300	19,99	2025-02-06 10:27:16	1
11	11	Laptop	50	999,99	2025-02-06 10:28:05	1
12	12	Smartphone	100	699,99	2025-02-06 10:28:05	1
13	13	Tablet	75	399,99	2025-02-06 10:28:05	1
14	14	Headphones	150	49,99	2025-02-06 10:28:05	1
15	15	Smartwatch	60	199,99	2025-02-06 10:28:05	1
16	16	Camera	30	499,99	2025-02-06 10:28:05	1
17	17	Printer	40	89,99	2025-02-06 10:28:05	1
18	18	Monitor	25	149,99	2025-02-06 10:28:05	1
19	19	Keyboard	200	29,99	2025-02-06 10:28:05	1
20	20	Mouse	300	19,99	2025-02-06 10:28:05	1

```
INSERT INTO low_stock_alert (product_id, product_name, quantity, alert_time)
SELECT product_id, product_name, quantity, CURRENT_TIME
FROM inventory
WHERE quantity < 10
```