

## **Elevate Labs SQL Developer Internship**

### **Task 2 -Data Insertion and Handling Nulls.**

- **Domain: E-commerce :**
- **Deliverables -**

1. INSERT
2. UPDATE
3. DELETE

- **Insert into TABLE –**

- 1. Table: Customer**

```
INSERT INTO Customers (first_name, last_name, email, phone,
address)
VALUES
('Alice', 'Smith', 'alice.smith@example.com', '123-456-7890', '123
Apple St, Wonderland'),
('Bob', 'Brown', 'bob.brown@example.com', NULL, '456 Orange
Ave, Dreamland'), -- no phone
('Carol', 'Jones', 'carol.jones@example.com', '555-333-2222', NULL);
```

- 2. Table: Products**

```
INSERT INTO Products (name, description, price, stock_quantity)
VALUES
('Gaming Laptop', 'High performance laptop for gaming', 1500.00,
10),
('Wireless Mouse', 'Ergonomic wireless mouse', 25.50, 100),
('Mechanical Keyboard', NULL, 70.00, 50);
```

### 3. Table: Order

```
INSERT INTO Orders (customer_id, order_date, shipped_date,
status, total_amount)
VALUES
(1, '2025-09-20 10:30:00', NULL, 'Pending', NULL), --
shipped_date & total_amount NULL until processed
(2, '2025-09-21 14:00:00', '2025-09-22 16:00:00', 'Shipped', 125.50);
```

### 4. Table: OrderItem

```
INSERT INTO OrderItems (order_id, product_id, quantity, unit_price,
discount)
VALUES
(1, 1, 1, 1500.00, 0.00),
(1, 3, 2, 70.00, 5.00),
(2, 2, 5, 25.50, 0.00);
```

- **into TABLE –**

```
UPDATE Products
SET stock_quantity = stock_quantity - 1
WHERE product_id = 1;
```

- Update a customer: setting an address for Carol, who had NULL address

```
UPDATE Customers
SET address = '789 Banana Blvd, Fruit City'
WHERE customer_id = 3 AND address IS NULL;
```

- Update status: mark Order 1 as Shipped and set shipped\_date

```
UPDATE Orders
SET status = 'Shipped',
    shipped_date = '2025-09-23 12:00:00'
WHERE order_id = 1 AND shipped_date IS NULL;
```

- **Delete Into TABLE –**

- Delete an order item — maybe a wrong item added

```
DELETE FROM OrderItems
```

```
WHERE order_item_id = 3;
```

- Delete a product that is discontinued, but only if it has no order items

```
DELETE FROM Products
```

```
WHERE product_id = 2
```

```
AND product_id NOT IN (
```

```
    SELECT product_id FROM OrderItems
```

```
);
```

- Delete a customer — only if they have no orders

```
DELETE FROM Customers
```

```
WHERE customer_id = 2
```

```
AND customer_id NOT IN (
```

```
    SELECT customer_id FROM Orders
```

```
);
```

- **SELECT to Verify -**

```
SELECT * FROM Customers;
```

```
SELECT * FROM Products;
```

```
SELECT * FROM Orders;
```

```
SELECT * FROM OrderItems;
```