# Inventory Management System SQL Project

*1. Creating the database.*

```
1    CREATE DATABASE Inventory;
2
```

**Messages**

14:02:51          Started executing query at Line 1
                  Commands completed successfully.
                  Total execution time: 00:00:00.454

*2. Using the database 'Inventory'.*

```
3    USE Inventory;
```

**Messages**

14:08:10          Started executing query at Line 3
                  Commands completed successfully.
                  Total execution time: 00:00:00.011

## 3. Creating the Suppliers Table.

```
4
5    -- Creating the Suppliers Table
6    CREATE TABLE Suppliers (
7        supplier_id INT PRIMARY KEY,
8        name VARCHAR(100),
9        contact_name VARCHAR(100),
10       phone VARCHAR(20),
11       email VARCHAR(100)
12   );
```

**Messages**

14:27:00    Started executing query at Line 6
            Commands completed successfully.
            Total execution time: 00:00:00.064

## 4. Inserting the values into the Suppliers table.

```
14   -- Inserting the values into Suppliers table
15   INSERT INTO Suppliers (supplier_id, name, contact_name, phone, email) VALUES
16   (1, 'Tech Distributors Inc', 'Alice Thompson', '123-456-7890', 'alice@techdist.com'),
17   (2, 'GadgetSupply Co.', 'Brian Matthews', '234-567-8901', 'brian@gadgetsupply.com'),
18   (3, 'Office Plus', 'Charles Lee', '345-678-9012', 'charles@officeplus.com'),
19   (4, 'CableTech', 'Dana White', '456-789-0123', 'dana@cabletech.com'),
20   (5, 'SmartPeripherals Ltd', 'Emily Carter', '567-890-1234', 'emily@smartperipherals.com'),
21   (6, 'NeoTech Solutions', 'Frank Zhang', '678-901-2345', 'frank@neotech.com'),
22   (7, 'Global Components', 'Grace Kim', '789-012-3456', 'grace@globalcomponents.com');
23
```

**Messages**

14:30:56    Started executing query at Line 15
            (7 rows affected)
            Total execution time: 00:00:00.042

## 5. Showing the values of the Suppliers table.

```
23
24   SELECT * from Suppliers;
```

**Results**   Messages

| | supplier_id ⌄ | name ⌄ | contact_name ⌄ | phone ⌄ | email ⌄ |
|---|---|---|---|---|---|
| 1 | 1 | Tech Distributors Inc | Alice Thompson | 123-456-7890 | alice@techdist.com |
| 2 | 2 | GadgetSupply Co. | Brian Matthews | 234-567-8901 | brian@gadgetsupply.com |
| 3 | 3 | Office Plus | Charles Lee | 345-678-9012 | charles@officeplus.com |
| 4 | 4 | CableTech | Dana White | 456-789-0123 | dana@cabletech.com |
| 5 | 5 | SmartPeripherals Ltd | Emily Carter | 567-890-1234 | emily@smartperipherals.com |
| 6 | 6 | NeoTech Solutions | Frank Zhang | 678-901-2345 | frank@neotech.com |
| 7 | 7 | Global Components | Grace Kim | 789-012-3456 | grace@globalcomponents.com |

## 6. Creating the Products Table.

▷ Run   ☐ Cancel   ⚡ Disconnect   ⟳ Change   |   Database: | Inventory   ⌄   |   品 E

```
25
26   -- Creating the Products Table
27   CREATE TABLE Products (
28       product_id INT PRIMARY KEY,
29       name VARCHAR(100),
30       description TEXT,
31       price DECIMAL(10,2),
32       quantity INT,
33       supplier_id INT,
34       FOREIGN KEY (supplier_id) REFERENCES Suppliers(supplier_id)
35   );
```

**Messages**

| 14:38:33 | Started executing query at Line 27 |
| | Commands completed successfully. |
| | Total execution time: 00:00:00.050 |

**7. Inserting the values into the Products table.**

```sql
36
37     -- Inserting the values into Products table
38     INSERT INTO Products (product_id, name, description, price, quantity, supplier_id) VALUES
39     (1, 'LED Monitor 24\"', 'Full HD LED Monitor', 120.00, 25, 1),
40     (2, 'Wireless Mouse', 'Ergonomic mouse', 15.00, 100, 2),
41     (3, 'Mechanical Keyboard', 'RGB backlit keyboard', 50.00, 40, 2),
42     (4, 'Laptop Backpack', 'Waterproof laptop bag', 30.00, 60, 3),
43     (5, 'USB-C Hub', '5-in-1 USB-C Hub', 25.00, 75, 4),
44     (6, 'HDMI Cable', '2m 4K HDMI cable', 10.00, 150, 4),
45     (7, 'External Hard Drive', '1TB USB 3.0', 65.00, 35, 1),
46     (8, 'Wireless Keyboard', 'Slim wireless keyboard', 22.00, 80, 2),
47     (9, 'Laptop Stand', 'Adjustable aluminum stand', 18.00, 50, 3),
48     (10, 'Webcam', '1080p USB webcam', 35.00, 45, 1),
49     (11, 'Bluetooth Speaker', 'Portable speaker', 40.00, 55, 5),
50     (12, 'Power Bank', '10000mAh fast-charging', 28.00, 70, 6),
51     (13, 'Wireless Earbuds', 'Bluetooth earbuds', 60.00, 90, 5),
52     (14, 'Desk Lamp', 'LED with USB port', 20.00, 45, 3),
53     (15, 'Smartphone Stand', 'Adjustable desk holder', 12.00, 100, 4),
54     (16, 'Cooling Pad', 'Laptop cooling fan', 22.00, 60, 1),
55     (17, 'Flash Drive 64GB', 'USB 3.0 drive', 9.00, 200, 7),
56     (18, 'Portable SSD', '512GB high-speed SSD', 110.00, 25, 6),
57     (19, 'Gaming Headset', 'Surround sound headset', 55.00, 30, 5),
58     (20, 'Monitor Mount', 'Dual screen arm mount', 48.00, 20, 7);
59
```

**Messages**

| | |
|---|---|
| 14:41:32 | Started executing query at Line 38 |
| | (20 rows affected) |
| | Total execution time: 00:00:00.067 |

## 8. Showing the values of the Products table.

```
59
60    SELECT * from Products;
61
```

**Results**   Messages

| | product_id | name | description | price | quantity | supplier_id |
|---|---|---|---|---|---|---|
| 1 | 1 | LED Monitor 24\" | Full HD LED Monitor | 120.00 | 25 | 1 |
| 2 | 2 | Wireless Mouse | Ergonomic mouse | 15.00 | 100 | 2 |
| 3 | 3 | Mechanical Keyboard | RGB backlit keyboard | 50.00 | 40 | 2 |
| 4 | 4 | Laptop Backpack | Waterproof laptop bag | 30.00 | 60 | 3 |
| 5 | 5 | USB-C Hub | 5-in-1 USB-C Hub | 25.00 | 75 | 4 |
| 6 | 6 | HDMI Cable | 2m 4K HDMI cable | 10.00 | 150 | 4 |
| 7 | 7 | External Hard Drive | 1TB USB 3.0 | 65.00 | 35 | 1 |
| 8 | 8 | Wireless Keyboard | Slim wireless keyboa… | 22.00 | 80 | 2 |
| 9 | 9 | Laptop Stand | Adjustable aluminum … | 18.00 | 50 | 3 |
| 10 | 10 | Webcam | 1080p USB webcam | 35.00 | 45 | 1 |
| 11 | 11 | Bluetooth Speaker | Portable speaker | 40.00 | 55 | 5 |
| 12 | 12 | Power Bank | 10000mAh fast-chargi… | 28.00 | 70 | 6 |
| 13 | 13 | Wireless Earbuds | Bluetooth earbuds | 60.00 | 90 | 5 |
| 14 | 14 | Desk Lamp | LED with USB port | 20.00 | 45 | 3 |
| 15 | 15 | Smartphone Stand | Adjustable desk hold… | 12.00 | 100 | 4 |
| 16 | 16 | Cooling Pad | Laptop cooling fan | 22.00 | 60 | 1 |
| 17 | 17 | Flash Drive 64GB | USB 3.0 drive | 9.00 | 200 | 7 |
| 18 | 18 | Portable SSD | 512GB high-speed SSD | 110.00 | 25 | 6 |
| 19 | 19 | Gaming Headset | Surround sound heads… | 55.00 | 30 | 5 |
| 20 | 20 | Monitor Mount | Dual screen arm mount | 48.00 | 20 | 7 |

## 9. Creating the Inventory_Transactions Table.

```
Run  Cancel  Disconnect  Change  |  Database: Inventory  ▾  |
```

```sql
61
62
63   -- Creating the Inventory_Transactions Table
64   CREATE TABLE Inventory_Transactions (
65       transaction_id INT PRIMARY KEY,
66       product_id INT,
67       transaction_type VARCHAR(10), -- 'purchase' or 'sale'
68       quantity INT,
69       transaction_date DATE,
70       FOREIGN KEY (product_id) REFERENCES Products(product_id)
71   );
```

**Messages**

| 14:45:54 | Started executing query at Line 64 |
|---|---|
| | Commands completed successfully. |
| | Total execution time: 00:00:00.047 |

## 10. Inserting the values into the Inventory_Transactions table.

```sql
73  -- Inserting the values into Inventory_Transactions table
74  INSERT INTO Inventory_Transactions (transaction_id, product_id, transaction_type, quantity, transaction_date) VALUES
75  (1, 1, 'purchase', 30, '2025-05-01'),
76  (2, 2, 'purchase', 120, '2025-05-02'),
77  (3, 3, 'sale', 10, '2025-05-03'),
78  (4, 4, 'purchase', 50, '2025-05-04'),
79  (5, 5, 'sale', 15, '2025-05-05'),
80  (6, 6, 'purchase', 100, '2025-05-06'),
81  (7, 1, 'sale', 5, '2025-05-07'),
82  (8, 7, 'purchase', 20, '2025-05-07'),
83  (9, 8, 'sale', 20, '2025-05-08'),
84  (10, 9, 'purchase', 50, '2025-05-08'),
85  (11, 10, 'sale', 5, '2025-05-09'),
86  (12, 3, 'sale', 5, '2025-05-10'),
87  (13, 6, 'sale', 20, '2025-05-11'),
88  (14, 2, 'sale', 40, '2025-05-12'),
89  (15, 5, 'purchase', 40, '2025-05-13'),
90  (16, 4, 'sale', 20, '2025-05-14'),
91  (17, 7, 'sale', 10, '2025-05-15'),
92  (18, 9, 'sale', 10, '2025-05-15'),
93  (19, 10, 'purchase', 30, '2025-05-16'),
94  (20, 1, 'purchase', 10, '2025-05-17'),
95  (21, 11, 'purchase', 60, '2025-05-17'),
96  (22, 12, 'purchase', 80, '2025-05-17'),
97  (23, 13, 'sale', 30, '2025-05-17'),
98  (24, 14, 'purchase', 50, '2025-05-17'),
99  (25, 15, 'sale', 25, '2025-05-17');
100
```

## Messages

14:49:13    Started executing query at Line 74
            (25 rows affected)
            Total execution time: 00:00:00.065

## 11. Showing all the values from the Inventory_Transactions Table.

▷ Run  ☐ Cancel  ⸙ Disconnect  ⟳ Change  |  Database: | Inventory ⌄ |  |  🖧 Estimated Plan  ⌘ Enable Actual Plan

```
100
101    SELECT * from Inventory_Transactions;
102
```

**Results**   Messages

| | transaction_id ⌄ | product_id ⌄ | transaction_type ⌄ | quantity ⌄ | transaction_date ⌄ |
|---|---|---|---|---|---|
| 1 | 1 | 1 | purchase | 30 | 2025-05-01 |
| 2 | 2 | 2 | purchase | 120 | 2025-05-02 |
| 3 | 3 | 3 | sale | 10 | 2025-05-03 |
| 4 | 4 | 4 | purchase | 50 | 2025-05-04 |
| 5 | 5 | 5 | sale | 15 | 2025-05-05 |
| 6 | 6 | 6 | purchase | 100 | 2025-05-06 |
| 7 | 7 | 1 | sale | 5 | 2025-05-07 |
| 8 | 8 | 7 | purchase | 20 | 2025-05-07 |
| 9 | 9 | 8 | sale | 20 | 2025-05-08 |
| 10 | 10 | 9 | purchase | 50 | 2025-05-08 |
| 11 | 11 | 10 | sale | 5 | 2025-05-09 |
| 12 | 12 | 3 | sale | 5 | 2025-05-10 |
| 13 | 13 | 6 | sale | 20 | 2025-05-11 |
| 14 | 14 | 2 | sale | 40 | 2025-05-12 |
| 15 | 15 | 5 | purchase | 40 | 2025-05-13 |
| 16 | 16 | 4 | sale | 20 | 2025-05-14 |
| 17 | 17 | 7 | sale | 10 | 2025-05-15 |
| 18 | 18 | 9 | sale | 10 | 2025-05-15 |
| 19 | 19 | 10 | purchase | 30 | 2025-05-16 |
| 20 | 20 | 1 | purchase | 10 | 2025-05-17 |
| 21 | 21 | 11 | purchase | 60 | 2025-05-17 |
| 22 | 22 | 12 | purchase | 80 | 2025-05-17 |
| 23 | 23 | 13 | sale | 30 | 2025-05-17 |
| 24 | 24 | 14 | purchase | 50 | 2025-05-17 |
| 25 | 25 | 15 | sale | 25 | 2025-05-17 |

Show Filter

## 12. Adding a New Product in the data.

```
102
103    -- Add a new product in the Products table
104    INSERT INTO Products (product_id, name, description, price, quantity, supplier_id)
105    VALUES (21, 'Ergonomic Chair', 'Adjustable office chair', 150.00, 10, 3);
```

**Messages**

14:55:41    Started executing query at Line 104
            (1 row affected)
            Total execution time: 00:00:00.046

## 13. Add a New Supplier in the data.

```
106
107    -- Add a new supplier in the Suppliers table
108    INSERT INTO Suppliers (supplier_id, name, contact_name, phone, email)
109    VALUES (8, 'WorkGear Supplies', 'Helen Troy', '890-123-4567', 'helen@workgear.com');
```

**Messages**

14:58:08    Started executing query at Line 108
            (1 row affected)
            Total execution time: 00:00:00.026

## 14. Updating the price of the Product.

```
114    -- Updating the price of a product in the Products Table
115    UPDATE Products
116    SET price = 130.00
117    WHERE product_id = 1;
```

**Messages**

15:03:06    Started executing query at Line 115
            (1 row affected)
            Total execution time: 00:00:00.037

*Showing the update price of the product where product_id = 1.*

```
114    -- Updating the price of a product in the Products Table
115    UPDATE Products
116    SET price = 130.00
117    WHERE product_id = 1;
118
119    SELECT * FROM Products;
```

**Results**   Messages

| | product_id ∨ | name ∨ | description ∨ | price ∨ | quantity ∨ | supplier_id ∨ |
|---|---|---|---|---|---|---|
| 1 | 1 | LED Monitor 24\" | Full HD LED Monitor | 130.00 | 25 | 1 |
| 2 | 2 | Wireless Mouse | Ergonomic mouse | 15.00 | 100 | 2 |
| 3 | 3 | Mechanical Keyboard | RGB backlit keyboard | 50.00 | 40 | 2 |

## 15.  *Updating the supplier contact information of the Supplier.*

```
120
121    -- Updating the supplier contact info in the Suppliers Table
122    UPDATE Suppliers
123    SET phone = '999-888-7777'
124    WHERE supplier_id = 2;
```

**Messages**

| 15:07:10 | Started executing query at Line 122 |
|---|---|
| | (1 row affected) |
| | Total execution time: 00:00:00.033 |

*Showing the supplier contact info of the Supplier where supplier_id = 2.*

```
121    -- Updating the supplier contact info in the Suppliers Table
122    UPDATE Suppliers
123    SET phone = '999-888-7777'
124    WHERE supplier_id = 2;
125
126    SELECT * FROM Suppliers;        Results grid
```

**Results**   Messages

| | supplier_id ∨ | name ∨ | contact_name ∨ | phone ∨ | email ∨ |
|---|---|---|---|---|---|
| 1 | 1 | Tech Distributors Inc | Alice Thompson | 123-456-7890 | alice@techdist.com |
| 2 | 2 | GadgetSupply Co. | Brian Matthews | 999-888-7777 | brian@gadgetsupply.com |
| 3 | 3 | Office Plus | Charles Lee | 345-678-9012 | charles@officeplus.com |

## 16.    Retrieving the Product Information with Supplier Information.

```sql
128    -- Retrieving the Product Information with Supplier Information
129    SELECT p.product_id, p.name AS product_name, p.price, p.quantity, s.name AS supplier_name
130    FROM Products AS p
131    JOIN Suppliers AS s ON p.supplier_id = s.supplier_id;
132
```

**Results**  Messages

|   | product_id | product_name | price | quantity | supplier_name |
|---|---|---|---|---|---|
| 1 | 1 | LED Monitor 24\" | 130.00 | 25 | Tech Distributors Inc |
| 2 | 2 | Wireless Mouse | 15.00 | 100 | GadgetSupply Co. |
| 3 | 3 | Mechanical Keyboard | 50.00 | 40 | GadgetSupply Co. |
| 4 | 4 | Laptop Backpack | 30.00 | 60 | Office Plus |
| 5 | 5 | USB-C Hub | 25.00 | 75 | CableTech |
| 6 | 6 | HDMI Cable | 10.00 | 150 | CableTech |
| 7 | 7 | External Hard Drive | 65.00 | 35 | Tech Distributors Inc |
| 8 | 8 | Wireless Keyboard | 22.00 | 80 | GadgetSupply Co. |
| 9 | 9 | Laptop Stand | 18.00 | 50 | Office Plus |
| 10 | 10 | Webcam | 35.00 | 45 | Tech Distributors Inc |
| 11 | 11 | Bluetooth Speaker | 40.00 | 55 | SmartPeripherals Ltd |
| 12 | 12 | Power Bank | 28.00 | 70 | NeoTech Solutions |
| 13 | 13 | Wireless Earbuds | 60.00 | 90 | SmartPeripherals Ltd |
| 14 | 14 | Desk Lamp | 20.00 | 45 | Office Plus |
| 15 | 15 | Smartphone Stand | 12.00 | 100 | CableTech |
| 16 | 16 | Cooling Pad | 22.00 | 60 | Tech Distributors Inc |
| 17 | 17 | Flash Drive 64GB | 9.00 | 200 | Global Components |
| 18 | 18 | Portable SSD | 110.00 | 25 | NeoTech Solutions |
| 19 | 19 | Gaming Headset | 55.00 | 30 | SmartPeripherals Ltd |
| 20 | 20 | Monitor Mount | 48.00 | 20 | Global Components |
| 21 | 21 | Ergonomic Chair | 150.00 | 10 | Office Plus |

## 17.    Retrieving the Inventory Transactions with Product Name.

```sql
133    -- Retrieving the Inventory Transactions with Product Name
134    SELECT t.transaction_id, p.name AS product_name, t.transaction_type, t.quantity, t.transaction_date
135    FROM Inventory_Transactions t
136    JOIN Products p ON t.product_id = p.product_id;
```

**Results**   Messages

|    | transaction_id | product_name | transaction_type | quantity | transaction_date |
|----|----------------|--------------|------------------|----------|------------------|
| 1  | 1  | LED Monitor 24\" | purchase | 30  | 2025-05-01 |
| 2  | 2  | Wireless Mouse | purchase | 120 | 2025-05-02 |
| 3  | 3  | Mechanical Keyboard | sale | 10  | 2025-05-03 |
| 4  | 4  | Laptop Backpack | purchase | 50  | 2025-05-04 |
| 5  | 5  | USB-C Hub | sale | 15  | 2025-05-05 |
| 6  | 6  | HDMI Cable | purchase | 100 | 2025-05-06 |
| 7  | 7  | LED Monitor 24\" | sale | 5   | 2025-05-07 |
| 8  | 8  | External Hard Drive | purchase | 20  | 2025-05-07 |
| 9  | 9  | Wireless Keyboard | sale | 20  | 2025-05-08 |
| 10 | 10 | Laptop Stand | purchase | 50  | 2025-05-08 |
| 11 | 11 | Webcam | sale | 5   | 2025-05-09 |
| 12 | 12 | Mechanical Keyboard | sale | 5   | 2025-05-10 |
| 13 | 13 | HDMI Cable | sale | 20  | 2025-05-11 |
| 14 | 14 | Wireless Mouse | sale | 40  | 2025-05-12 |
| 15 | 15 | USB-C Hub | purchase | 40  | 2025-05-13 |
| 16 | 16 | Laptop Backpack | sale | 20  | 2025-05-14 |
| 17 | 17 | External Hard Drive | sale | 10  | 2025-05-15 |
| 18 | 18 | Laptop Stand | sale | 10  | 2025-05-15 |
| 19 | 19 | Webcam | purchase | 30  | 2025-05-16 |
| 20 | 20 | LED Monitor 24\" | purchase | 10  | 2025-05-17 |
| 21 | 21 | Bluetooth Speaker | purchase | 60  | 2025-05-17 |
| 22 | 22 | Power Bank | purchase | 80  | 2025-05-17 |
| 23 | 23 | Wireless Earbuds | sale | 30  | 2025-05-17 |
| 24 | 24 | Desk Lamp | purchase | 50  | 2025-05-17 |
| 25 | 25 | Smartphone Stand | sale | 25  | 2025-05-17 |

**18.** *Filtering the Products supplied by the 'CableTech'.*

```
137
138    -- Filtering the Products supplied by 'CableTech'
139    SELECT p.name, p.price
140    FROM Products p
141    JOIN Suppliers s ON p.supplier_id = s.supplier_id
142    WHERE s.name = 'CableTech';
143
```

**Results**  Messages

| | name | price |
|---|---|---|
| 1 | USB-C Hub | 25.00 |
| 2 | HDMI Cable | 10.00 |
| 3 | Smartphone Stand | 12.00 |

## 19. Sorting the Products by Price in the Descending order.

```
143
144    -- Sorting the Products by Price in the Descending order
145    SELECT name, price, quantity
146    FROM Products
147    ORDER BY price DESC;
148
```

**Results**   **Messages**

| | name | price | quantity |
|---|---|---|---|
| 1 | Ergonomic Chair | 150.00 | 10 |
| 2 | LED Monitor 24\" | 130.00 | 25 |
| 3 | Portable SSD | 110.00 | 25 |
| 4 | External Hard Drive | 6! Results grid 35 | |
| 5 | Wireless Earbuds | 60.00 | 90 |
| 6 | Gaming Headset | 55.00 | 30 |
| 7 | Mechanical Keyboard | 50.00 | 40 |
| 8 | Monitor Mount | 48.00 | 20 |
| 9 | Bluetooth Speaker | 40.00 | 55 |
| 10 | Webcam | 35.00 | 45 |
| 11 | Laptop Backpack | 30.00 | 60 |
| 12 | Power Bank | 28.00 | 70 |
| 13 | USB-C Hub | 25.00 | 75 |
| 14 | Wireless Keyboard | 22.00 | 80 |
| 15 | Cooling Pad | 22.00 | 60 |
| 16 | Desk Lamp | 20.00 | 45 |
| 17 | Laptop Stand | 18.00 | 50 |
| 18 | Wireless Mouse | 15.00 | 100 |
| 19 | Smartphone Stand | 12.00 | 100 |
| 20 | HDMI Cable | 10.00 | 150 |
| 21 | Flash Drive 64GB | 9.00 | 200 |

## 20.  *Filtering the Transactions by Date Range.*

```sql
149   -- Filtering the Transactions by Date Range
150   SELECT *
151   FROM Inventory_Transactions
152   WHERE transaction_date BETWEEN '2025-05-05' AND '2025-05-10';
153
154
```

**Results**   Messages

| | transaction_id | product_id | transaction_type | quantity | transaction_date |
|---|---|---|---|---|---|
| 1 | 5 | 5 | sale | 15 | 2025-05-05 |
| 2 | 6 | 6 | purchase | 100 | 2025-05-06 |
| 3 | 7 | 1 | sale | 5 | 2025-05-07 |
| 4 | 8 | 7 | purchase | 20 | 2025-05-07 |
| 5 | 9 | 8 | sale | 20 | 2025-05-08 |
| 6 | 10 | 9 | purchase | 50 | 2025-05-08 |
| 7 | 11 | 10 | sale | 5 | 2025-05-09 |
| 8 | 12 | 3 | sale | 5 | 2025-05-10 |

## 21. Showing the Current Stock for Each Product available in the data.



```sql
    -- Showing the Current Stock for Each Product available in the data
154
155 SELECT p.product_id, p.name,
156      SUM(CASE WHEN t.transaction_type = 'purchase' THEN t.quantity
157          WHEN t.transaction_type = 'sale' THEN -t.quantity
158          ELSE 0 END) AS stock_adjustment,
159      p.quantity AS recorded_quantity
160 FROM Products p
161 LEFT JOIN Inventory_Transactions t ON p.product_id = t.product_id
162 GROUP BY p.product_id, p.name, p.quantity;
163
```

**Results**  Messages

|  | product_id | name | stock_adjustment | recorded_quantity |
|---|---|---|---|---|
| 1 | 1 | LED Monitor 24\" | 35 | 25 |
| 2 | 2 | Wireless Mouse | 80 | 100 |
| 3 | 3 | Mechanical Keyboard | -15 | 40 |
| 4 | 4 | Laptop Backpack | 30 | 60 |
| 5 | 5 | USB-C Hub | 25 | 75 |
| 6 | 6 | HDMI Cable | 80 | 150 |
| 7 | 7 | External Hard Drive | 10 | 35 |
| 8 | 8 | Wireless Keyboard | -20 | 80 |
| 9 | 9 | Laptop Stand | 40 | 50 |
| 10 | 10 | Webcam | 25 | 45 |
| 11 | 11 | Bluetooth Speaker | 60 | 55 |
| 12 | 12 | Power Bank | 80 | 70 |
| 13 | 13 | Wireless Earbuds | -30 | 90 |
| 14 | 14 | Desk Lamp | 50 | 45 |
| 15 | 15 | Smartphone Stand | -25 | 100 |
| 16 | 16 | Cooling Pad | 0 | 60 |
| 17 | 17 | Flash Drive 64GB | 0 | 200 |
| 18 | 18 | Portable SSD | 0 | 25 |
| 19 | 19 | Gaming Headset | 0 | 30 |
| 20 | 20 | Monitor Mount | 0 | 20 |
| 21 | 21 | Ergonomic Chair | 0 | 10 |