**CP363-A: Databases I – Final Submission - Python Interface**

**Testing Output**

[INFO]: DB Connection Successfully established!

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>> 1

Menu 1: Purchase Item from Vendor!

This operation will allow you to purchase an item from the vendors.

Enter your Employee ID (int): 1

Enter the ID of Item to be ordered (int): 12

There are currently 7924 SKUs in stock.

Enter the quantity of the Item to be ordered (int): 43

Item has been ordered successfully!

There are now 7967 SKUs in stock.

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>> 1

Menu 1: Purchase Item from Vendor!

This operation will allow you to purchase an item from the vendors.

Enter your Employee ID (int): 4

Enter the ID of Item to be ordered (int): 392

There are currently 0 SKUs in stock.

Enter the quantity of the Item to be ordered (int): 480

Item has been ordered successfully!

There are now 480 SKUs in stock.

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>>

2

Menu 2: Sell Item to Customer !

Please select an Item ID from 0 to 392.

Enter Item ID: 32

There are currently 2292 SKUs in stock.

Enter Item Quantity: 593

Item 32 sold to customer! Quantity of 593 has been depleted from Item 32. The current stock now is: 1699.

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>>

3

Menu 3: Add Sales Promotion to an Item!

Please select an Item ID from 0 to 392.

Enter Item ID (int): 46

Enter a Discount Percentage (%): 72.43

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>> 4

Menu 4: Show Stock Alert for an Item!

This operation will display if a selected Item is below your desired stock level and displays an alert if lower.

Please select an Item ID from 0 to 392.

Enter Item ID (int): 12

Please enter your desired stock level (int): 4500

The Item is above the desired stock level. Item 12 is in good status!

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>> 4

Menu 4: Show Stock Alert for an Item!

This operation will display if a selected Item is below your desired stock level and displays an alert if lower.

Please select an Item ID from 0 to 392.

Enter Item ID (int): 45

Please enter your desired stock level (int): 48932

ALERT: Stock level for Item 45 is below the desired stock level. It is short by 36128 SKUs (Stock Keeping Units).

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>> 5

Menu 5: Display Stock Alert for ALL Item!

This operation will display an alert for all Items below your desired stock level.

Please select an Item ID from 0 to 392.

Please enter your desired stock level (int): 1500

(1, 159, 5, 364, 16, 1263, 17, 134, 20, 201, 39, 927, 48, 712, 53, 121, 68, 1362, 69, 461, 77, 1065, 87, 1222, 91, 477, 111, 2, 392, 480)

ALERT: Stock level for Item 1 is below the desired stock level. It is short by 1341 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 5 is below the desired stock level. It is short by 1136 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 16 is below the desired stock level. It is short by 237 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 17 is below the desired stock level. It is short by 1366 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 20 is below the desired stock level. It is short by 1299 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 39 is below the desired stock level. It is short by 573 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 48 is below the desired stock level. It is short by 788 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 53 is below the desired stock level. It is short by 1379 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 68 is below the desired stock level. It is short by 138 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 69 is below the desired stock level. It is short by 1039 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 77 is below the desired stock level. It is short by 435 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 87 is below the desired stock level. It is short by 278 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 91 is below the desired stock level. It is short by 1023 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 111 is below the desired stock level. It is short by 1498 SKUs (Stock Keeping Units).

ALERT: Stock level for Item 392 is below the desired stock level. It is short by 1020 SKUs (Stock Keeping Units).

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>>

6

Menu 6: Calculate Total Inventory Value!

This operation will display the total value of all items.

The total value of the entire inventory is $638,560,018.43.

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>> 7

Menu 7: Calculate Total Inventory Turnover!

This operation will find Inventory Turnover (Sales / Inventory).

Total Inventory Turnover Ratio: 1.30.

9. Back

0. Quit

>> 9

Welcome,

Please select an option:

1. Purchase Item from Vendor

2. Sell Item to Customer

3. Add Sales Promotion (Discount) to an Item

4. Show Stock Alert for an Item

5. Display Stock Alerts for ALL Items

6. Calculate Total Inventory Value

7. Calculate Total Inventory Turnover

8. Calculate Total Inventory Turnover Time

0. Quit

>> 8

Menu 8: Calculate Total Inventory Turnover Time!

This operation will display the Total Inventory Turnover in days.

Total Inventory Turnover Time: 280 days.

9. Back

0. Quit

>> 0

Process finished with exit code 0