**Requirements:**

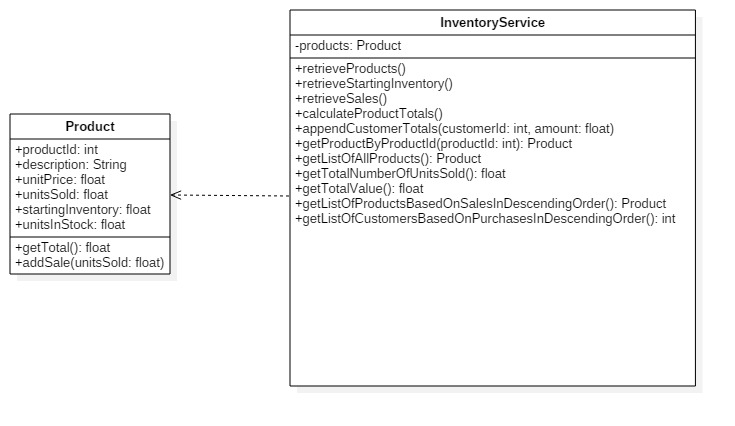
Come up with a system that is able to:

* Create a listing of all Products sold
* List the number of units sold for each Product
* Calculate the total revenue received for each Product
* Calculate the total revenue from the sales of all Products
* Indicate the starting number of units for each Product, Units sold and the final count of units in the Inventory.
* A list of Customers in descending order based on the value of their purchases
* A list of Products in descending order based on total revenue.

**Test Cases:**

* Test if all the Products were Imported and whether they are accurate.
* Test if all the Sale Items were imported from the CSV and whether they are accurate.
* Test if the total number of products Sold for a product and total revenue per item is correct as well as for all the products.
* Test if the ordering of customers and products based on the revenue is correct.

**UML:**

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**Test Results (Verified by test cases):**

* The system accurately imports and can display all 36 products.
* The system accurately imports and can display all the Sale items.
* The system accurately generates a list in descending order for both customer and product based on value of products purchased by customer and products sold respectively.
* The total number of products sold and total revenue is accurate.

**System Output:**

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Sales Data (Listing) - Product

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ID: '10001', Name: 'Claw Hammer 16 oz',

Unit Price: '17.0',

No of Items Sold: '20.0',

Total Amount: '340.0'

ID: '10002', Name: 'Framing Hammer 22 oz',

Unit Price: '55.0',

No of Items Sold: '20.0',

Total Amount: '1100.0'

ID: '10003', Name: 'Framing Hammer 28 oz',

Unit Price: '60.0',

No of Items Sold: '28.0',

Total Amount: '1680.0'

ID: '10004', Name: 'Tack Hammer 12 oz',

Unit Price: '12.0',

No of Items Sold: '72.0',

Total Amount: '864.0'

ID: '10005', Name: 'Sledge Hammer 15 lb',

Unit Price: '35.0',

No of Items Sold: '4.0',

Total Amount: '140.0'

ID: '10006', Name: 'Sledge Hammer 20 lb',

Unit Price: '45.0',

No of Items Sold: '36.0',

Total Amount: '1620.0'

ID: '10007', Name: 'Hand Sledge Hammer 2.5 lb',

Unit Price: '15.0',

No of Items Sold: '28.0',

Total Amount: '420.0'

ID: '10008', Name: 'Hand Sledge Hammer 5 lb',

Unit Price: '20.0',

No of Items Sold: '12.0',

Total Amount: '240.0'

ID: '10009', Name: 'Ball Pein Hammer 24 oz',

Unit Price: '30.0',

No of Items Sold: '25.0',

Total Amount: '750.0'

ID: '10010', Name: 'Ball Pein Hammer 32 oz',

Unit Price: '35.0',

No of Items Sold: '37.0',

Total Amount: '1295.0'

ID: '20001', Name: 'Screwdriver 4 in slotted',

Unit Price: '6.5',

No of Items Sold: '19.0',

Total Amount: '123.5'

ID: '20002', Name: 'Screwdriver 4 in Phillips',

Unit Price: '6.5',

No of Items Sold: '13.0',

Total Amount: '84.5'

ID: '20003', Name: 'Screwdriver 6 in slotted',

Unit Price: '7.5',

No of Items Sold: '42.0',

Total Amount: '315.0'

ID: '20004', Name: 'Screwdriver 6 in Phillips',

Unit Price: '7.5',

No of Items Sold: '47.0',

Total Amount: '352.5'

ID: '20005', Name: 'Screwdriver 8 in slotted',

Unit Price: '8.5',

No of Items Sold: '32.0',

Total Amount: '272.0'

ID: '20006', Name: 'Screwdriver 8 in Phillips',

Unit Price: '8.5',

No of Items Sold: '12.0',

Total Amount: '102.0'

ID: '30001', Name: 'Wrench Adjustable 4 in',

Unit Price: '8.0',

No of Items Sold: '38.0',

Total Amount: '304.0'

ID: '30002', Name: 'Wrench Adjustable 6 in',

Unit Price: '10.0',

No of Items Sold: '9.0',

Total Amount: '90.0'

ID: '30003', Name: 'Wrench Adjustable 8 in',

Unit Price: '12.0',

No of Items Sold: '39.0',

Total Amount: '468.0'

ID: '30004', Name: 'Wrench Adjustable 10 in',

Unit Price: '15.0',

No of Items Sold: '54.0',

Total Amount: '810.0'

ID: '30005', Name: 'Wrench Combo 3/8 in',

Unit Price: '8.0',

No of Items Sold: '21.0',

Total Amount: '168.0'

ID: '30006', Name: 'Wrench Combo 1/2 in',

Unit Price: '8.0',

No of Items Sold: '58.0',

Total Amount: '464.0'

ID: '30007', Name: 'Wrench Combo 5/8 in',

Unit Price: '8.0',

No of Items Sold: '15.0',

Total Amount: '120.0'

ID: '30008', Name: 'Wrench Combo 3/4 in',

Unit Price: '9.0',

No of Items Sold: '22.0',

Total Amount: '198.0'

ID: '30009', Name: 'Wrench Combo 7/8 in',

Unit Price: '9.0',

No of Items Sold: '30.0',

Total Amount: '270.0'

ID: '30010', Name: 'Wrench Combo 1 in',

Unit Price: '10.0',

No of Items Sold: '21.0',

Total Amount: '210.0'

ID: '30011', Name: 'Wrench Combo 1 1/4 in',

Unit Price: '10.0',

No of Items Sold: '26.0',

Total Amount: '260.0'

ID: '30012', Name: 'Wrench Combo 1 1/2 in',

Unit Price: '10.0',

No of Items Sold: '30.0',

Total Amount: '300.0'

ID: '30013', Name: 'Wrench Allen 1/16 in',

Unit Price: '2.5',

No of Items Sold: '38.0',

Total Amount: '95.0'

ID: '30014', Name: 'Wrench Allen 1/4 in',

Unit Price: '2.5',

No of Items Sold: '37.0',

Total Amount: '92.5'

ID: '30015', Name: 'Wrench Allen 1/8 in',

Unit Price: '2.5',

No of Items Sold: '60.0',

Total Amount: '150.0'

ID: '30016', Name: 'Wrench Allen 3/16 in',

Unit Price: '2.5',

No of Items Sold: '28.0',

Total Amount: '70.0'

ID: '30017', Name: 'Wrench Allen 1/4 in',

Unit Price: '3.5',

No of Items Sold: '23.0',

Total Amount: '80.5'

ID: '30018', Name: 'Wrench Allen 5/16 in',

Unit Price: '3.5',

No of Items Sold: '18.0',

Total Amount: '63.0'

ID: '30019', Name: 'Wrench Allen 3/8 in',

Unit Price: '3.5',

No of Items Sold: '56.0',

Total Amount: '196.0'

ID: '30020', Name: 'Wrench Allen 7/16 in',

Unit Price: '3.5',

No of Items Sold: '29.0',

Total Amount: '101.5'

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Total Number of Units Sold: '1099.0' ,Total Revenue: '14209.0'

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Inventory Change - Product

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ID: '10001', Name: 'Claw Hammer 16 oz',

Starting Inventory: '3.0',

No of Items Sold: '20.0',

Units In Stock: '-17.0'

ID: '10002', Name: 'Framing Hammer 22 oz',

Starting Inventory: '33.0',

No of Items Sold: '20.0',

Units In Stock: '13.0'

ID: '10003', Name: 'Framing Hammer 28 oz',

Starting Inventory: '51.0',

No of Items Sold: '28.0',

Units In Stock: '23.0'

ID: '10004', Name: 'Tack Hammer 12 oz',

Starting Inventory: '101.0',

No of Items Sold: '72.0',

Units In Stock: '29.0'

ID: '10005', Name: 'Sledge Hammer 15 lb',

Starting Inventory: '4.0',

No of Items Sold: '4.0',

Units In Stock: '0.0'

ID: '10006', Name: 'Sledge Hammer 20 lb',

Starting Inventory: '30.0',

No of Items Sold: '36.0',

Units In Stock: '-6.0'

ID: '10007', Name: 'Hand Sledge Hammer 2.5 lb',

Starting Inventory: '36.0',

No of Items Sold: '28.0',

Units In Stock: '8.0'

ID: '10008', Name: 'Hand Sledge Hammer 5 lb',

Starting Inventory: '8.0',

No of Items Sold: '12.0',

Units In Stock: '-4.0'

ID: '10009', Name: 'Ball Pein Hammer 24 oz',

Starting Inventory: '22.0',

No of Items Sold: '25.0',

Units In Stock: '-3.0'

ID: '10010', Name: 'Ball Pein Hammer 32 oz',

Starting Inventory: '74.0',

No of Items Sold: '37.0',

Units In Stock: '37.0'

ID: '20001', Name: 'Screwdriver 4 in slotted',

Starting Inventory: '24.0',

No of Items Sold: '19.0',

Units In Stock: '5.0'

ID: '20002', Name: 'Screwdriver 4 in Phillips',

Starting Inventory: '13.0',

No of Items Sold: '13.0',

Units In Stock: '0.0'

ID: '20003', Name: 'Screwdriver 6 in slotted',

Starting Inventory: '0.0',

No of Items Sold: '42.0',

Units In Stock: '-42.0'

ID: '20004', Name: 'Screwdriver 6 in Phillips',

Starting Inventory: '62.0',

No of Items Sold: '47.0',

Units In Stock: '15.0'

ID: '20005', Name: 'Screwdriver 8 in slotted',

Starting Inventory: '21.0',

No of Items Sold: '32.0',

Units In Stock: '-11.0'

ID: '20006', Name: 'Screwdriver 8 in Phillips',

Starting Inventory: '22.0',

No of Items Sold: '12.0',

Units In Stock: '10.0'

ID: '30001', Name: 'Wrench Adjustable 4 in',

Starting Inventory: '59.0',

No of Items Sold: '38.0',

Units In Stock: '21.0'

ID: '30002', Name: 'Wrench Adjustable 6 in',

Starting Inventory: '7.0',

No of Items Sold: '9.0',

Units In Stock: '-2.0'

ID: '30003', Name: 'Wrench Adjustable 8 in',

Starting Inventory: '18.0',

No of Items Sold: '39.0',

Units In Stock: '-21.0'

ID: '30004', Name: 'Wrench Adjustable 10 in',

Starting Inventory: '44.0',

No of Items Sold: '54.0',

Units In Stock: '-10.0'

ID: '30005', Name: 'Wrench Combo 3/8 in',

Starting Inventory: '28.0',

No of Items Sold: '21.0',

Units In Stock: '7.0'

ID: '30006', Name: 'Wrench Combo 1/2 in',

Starting Inventory: '106.0',

No of Items Sold: '58.0',

Units In Stock: '48.0'

ID: '30007', Name: 'Wrench Combo 5/8 in',

Starting Inventory: '23.0',

No of Items Sold: '15.0',

Units In Stock: '8.0'

ID: '30008', Name: 'Wrench Combo 3/4 in',

Starting Inventory: '8.0',

No of Items Sold: '22.0',

Units In Stock: '-14.0'

ID: '30009', Name: 'Wrench Combo 7/8 in',

Starting Inventory: '29.0',

No of Items Sold: '30.0',

Units In Stock: '-1.0'

ID: '30010', Name: 'Wrench Combo 1 in',

Starting Inventory: '7.0',

No of Items Sold: '21.0',

Units In Stock: '-14.0'

ID: '30011', Name: 'Wrench Combo 1 1/4 in',

Starting Inventory: '20.0',

No of Items Sold: '26.0',

Units In Stock: '-6.0'

ID: '30012', Name: 'Wrench Combo 1 1/2 in',

Starting Inventory: '24.0',

No of Items Sold: '30.0',

Units In Stock: '-6.0'

ID: '30013', Name: 'Wrench Allen 1/16 in',

Starting Inventory: '55.0',

No of Items Sold: '38.0',

Units In Stock: '17.0'

ID: '30014', Name: 'Wrench Allen 1/4 in',

Starting Inventory: '15.0',

No of Items Sold: '37.0',

Units In Stock: '-22.0'

ID: '30015', Name: 'Wrench Allen 1/8 in',

Starting Inventory: '64.0',

No of Items Sold: '60.0',

Units In Stock: '4.0'

ID: '30016', Name: 'Wrench Allen 3/16 in',

Starting Inventory: '15.0',

No of Items Sold: '28.0',

Units In Stock: '-13.0'

ID: '30017', Name: 'Wrench Allen 1/4 in',

Starting Inventory: '13.0',

No of Items Sold: '23.0',

Units In Stock: '-10.0'

ID: '30018', Name: 'Wrench Allen 5/16 in',

Starting Inventory: '34.0',

No of Items Sold: '18.0',

Units In Stock: '16.0'

ID: '30019', Name: 'Wrench Allen 3/8 in',

Starting Inventory: '44.0',

No of Items Sold: '56.0',

Units In Stock: '-12.0'

ID: '30020', Name: 'Wrench Allen 7/16 in',

Starting Inventory: '39.0',

No of Items Sold: '29.0',

Units In Stock: '10.0'

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Customers in descending Order

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Customer Number: '20'

Customer Number: '21'

Customer Number: '17'

Customer Number: '14'

Customer Number: '19'

Customer Number: '22'

Customer Number: '12'

Customer Number: '10'

Customer Number: '18'

Customer Number: '13'

Customer Number: '7'

Customer Number: '9'

Customer Number: '15'

Customer Number: '3'

Customer Number: '1'

Customer Number: '16'

Customer Number: '8'

Customer Number: '11'

Customer Number: '5'

Customer Number: '2'

Customer Number: '6'

Customer Number: '4'

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Products in descending Order

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Product ID: '10003', Product Name: 'Framing Hammer 28 oz'

Product ID: '10006', Product Name: 'Sledge Hammer 20 lb'

Product ID: '10010', Product Name: 'Ball Pein Hammer 32 oz'

Product ID: '10002', Product Name: 'Framing Hammer 22 oz'

Product ID: '10004', Product Name: 'Tack Hammer 12 oz'

Product ID: '30004', Product Name: 'Wrench Adjustable 10 in'

Product ID: '10009', Product Name: 'Ball Pein Hammer 24 oz'

Product ID: '30003', Product Name: 'Wrench Adjustable 8 in'

Product ID: '30006', Product Name: 'Wrench Combo 1/2 in'

Product ID: '10007', Product Name: 'Hand Sledge Hammer 2.5 lb'

Product ID: '20004', Product Name: 'Screwdriver 6 in Phillips'

Product ID: '10001', Product Name: 'Claw Hammer 16 oz'

Product ID: '20003', Product Name: 'Screwdriver 6 in slotted'

Product ID: '30001', Product Name: 'Wrench Adjustable 4 in'

Product ID: '30012', Product Name: 'Wrench Combo 1 1/2 in'

Product ID: '20005', Product Name: 'Screwdriver 8 in slotted'

Product ID: '30009', Product Name: 'Wrench Combo 7/8 in'

Product ID: '30011', Product Name: 'Wrench Combo 1 1/4 in'

Product ID: '10008', Product Name: 'Hand Sledge Hammer 5 lb'

Product ID: '30010', Product Name: 'Wrench Combo 1 in'

Product ID: '30008', Product Name: 'Wrench Combo 3/4 in'

Product ID: '30019', Product Name: 'Wrench Allen 3/8 in'

Product ID: '30005', Product Name: 'Wrench Combo 3/8 in'

Product ID: '30015', Product Name: 'Wrench Allen 1/8 in'

Product ID: '10005', Product Name: 'Sledge Hammer 15 lb'

Product ID: '20001', Product Name: 'Screwdriver 4 in slotted'

Product ID: '30007', Product Name: 'Wrench Combo 5/8 in'

Product ID: '20006', Product Name: 'Screwdriver 8 in Phillips'

Product ID: '30020', Product Name: 'Wrench Allen 7/16 in'

Product ID: '30013', Product Name: 'Wrench Allen 1/16 in'

Product ID: '30014', Product Name: 'Wrench Allen 1/4 in'

Product ID: '30002', Product Name: 'Wrench Adjustable 6 in'

Product ID: '20002', Product Name: 'Screwdriver 4 in Phillips'

Product ID: '30017', Product Name: 'Wrench Allen 1/4 in'

Product ID: '30016', Product Name: 'Wrench Allen 3/16 in'

Product ID: '30018', Product Name: 'Wrench Allen 5/16 in'

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