ISM 672 – Application Design and Programming

Visual Studios – Assignment 3

Date: 30-11-2022

Submitted by

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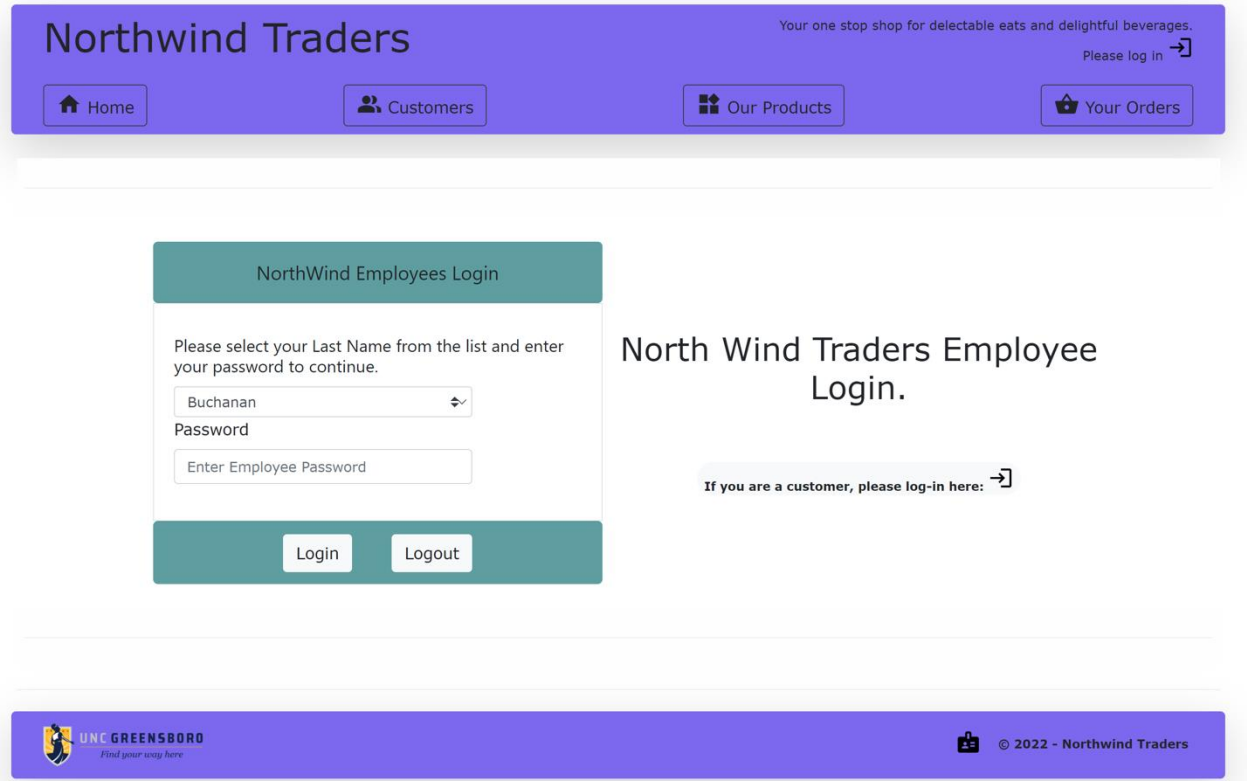
Student ID: 886173964

Introduction:

A made-up company called Northwind Traders handles orders, products, clients, vendors, and many other facets of a small business. Here is my employee home page which is used to access the data:



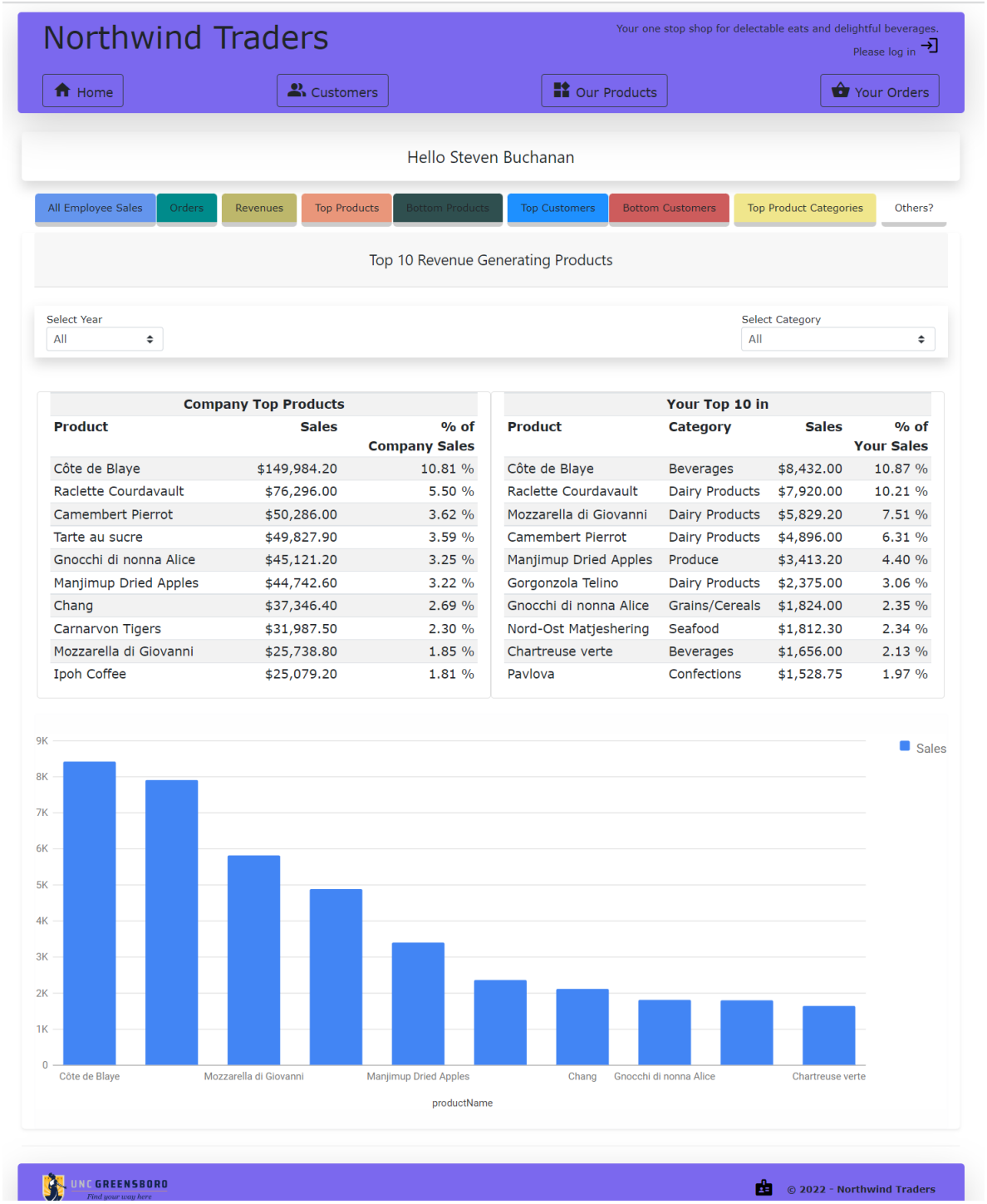
1. Annual Sales, measured by the number of orders placed, the number of products sold, and revenue generated with the ability to drill down into monthly sales for each year, for all employees:

Annual sales were drafted in a way so that the employee can easily understand the sales revenue.

Annual Revenue:

2. Highest and Lowest (Top and Bottom 10) revenue-generating *products* for each year and across all years <u>for all employees</u>:

The bar graphs represent the product revenue that is generated and showed for the Top 10.


Northwind Traders
Your one stop shop for delectable eats and delightful beverages.
Please log in
Home
Customers
Our Products
Your Orders
Hello Steven Buchanan
All Employee Sales
Orders
Revenues
Top Products
Bottom Products
Top Customers
Bottom Customers
Top Product Categories
Others?
Top 10 Revenue Generating Products
Select Year
All
Select Category
All
Company Top Products
Product
Sales
% of Company Sales
Côte de Blaye $149,984.20 10.81 %
Raclette Courdavault $76,296.00 5.50 %
Camembert Pierrot $50,286.00 3.62 %
Tarte au sucre $49,827.90 3.59 %
Gnocchi di nonna Alice $45,121.20 3.25 %
Manjimup Dried Apples $44,742.60 3.22 %
Chang $37,346.40 2.69 %
Carnarvon Tigers $31,987.50 2.30 %
Mozzarella di Giovanni $25,738.80 1.85 %
Ipoh Coffee $25,079.20 1.81 %
Your Top 10 in
Product
Category
Sales
% of Your Sales
Côte de Blaye Beverages $8,432.00 10.87 %
Raclette Courdavault Dairy Products $7,920.00 10.21 %
Mozzarella di Giovanni Dairy Products $5,829.20 7.51 %
Camembert Pierrot Dairy Products $4,896.00 6.31 %
Manjimup Dried Apples Produce $3,413.20 4.40 %
Gorgonzola Telino Dairy Products $2,375.00 3.06 %
Gnocchi di nonna Alice Grains/Cereals $1,824.00 2.35 %
Nord-Ost Matjeshering Seafood $1,812.30 2.34 %
Chartreuse verte Beverages $1,656.00 2.13 %
Pavlova Confections $1,528.75 1.97 %
9K
8K
7K
6K
5K
4K
3K
2K
1K
0
Sales
Côte de Blaye
Mozzarella di Giovanni
Manjimup Dried Apples
Chang
Gnocchi di nonna Alice
Chartreuse verte
productName
UNCGREENSBORO
Find your way here
© 2022 - Northwind Traders

Every Year:

Northwind Traders

Your one stop shop for delectable eats and delightful beverages.

Please log in

Home | Customers | Our Products | Your Orders

Hello Steven Buchanan

All Employee Sales | Orders | Revenues | Top Products | Bottom Products | Top Customers | Bottom Customers | Top Product Categories | Others?

Top 10 Revenue Generating Products

Select Year: 2020

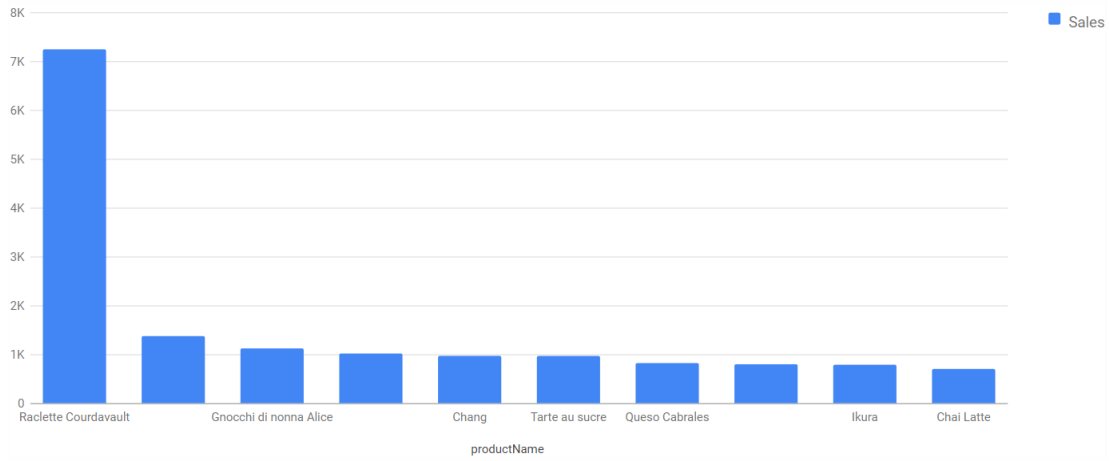
Select Category: All

Company Top Products

Product	Sales	% of Company Sales
Côte de Blaye	$149,984.20	10.81 %
Raclette Courdavault	$76,296.00	5.50 %
Camembert Pierrot	$50,286.00	3.62 %
Tarte au sucre	$49,827.90	3.59 %
Gnocchi di nonna Alice	$45,121.20	3.25 %
Manjimup Dried Apples	$44,742.60	3.22 %
Chang	$37,346.40	2.69 %
Carnarvon Tigers	$31,987.50	2.30 %
Mozzarella di Giovanni	$25,738.80	1.85 %
Ipoh Coffee	$25,079.20	1.81 %

Your Top 10 in 2020

Product	Category	Sales	% of Your Sales
Raclette Courdavault	Dairy Products	$7,260.00	9.36 %
Mozzarella di Giovanni	Dairy Products	$1,392.00	1.79 %
Gnocchi di nonna Alice	Grains/Cereals	$1,140.00	1.47 %
Nord-Ost Matjeshering	Seafood	$1,035.60	1.34 %
Tarte au sucre	Confections	$986.00	1.27 %
Queso Cabrales	Dairy Products	$840.00	1.08 %
Camembert Pierrot	Dairy Products	$816.00	1.05 %
Ikura	Seafood	$806.00	1.04 %
Chai	Beverages	$720.00	0.93 %
Chai Latte	Beverages	$720.00	0.93 %



UNC GREENSBORO Find your way here

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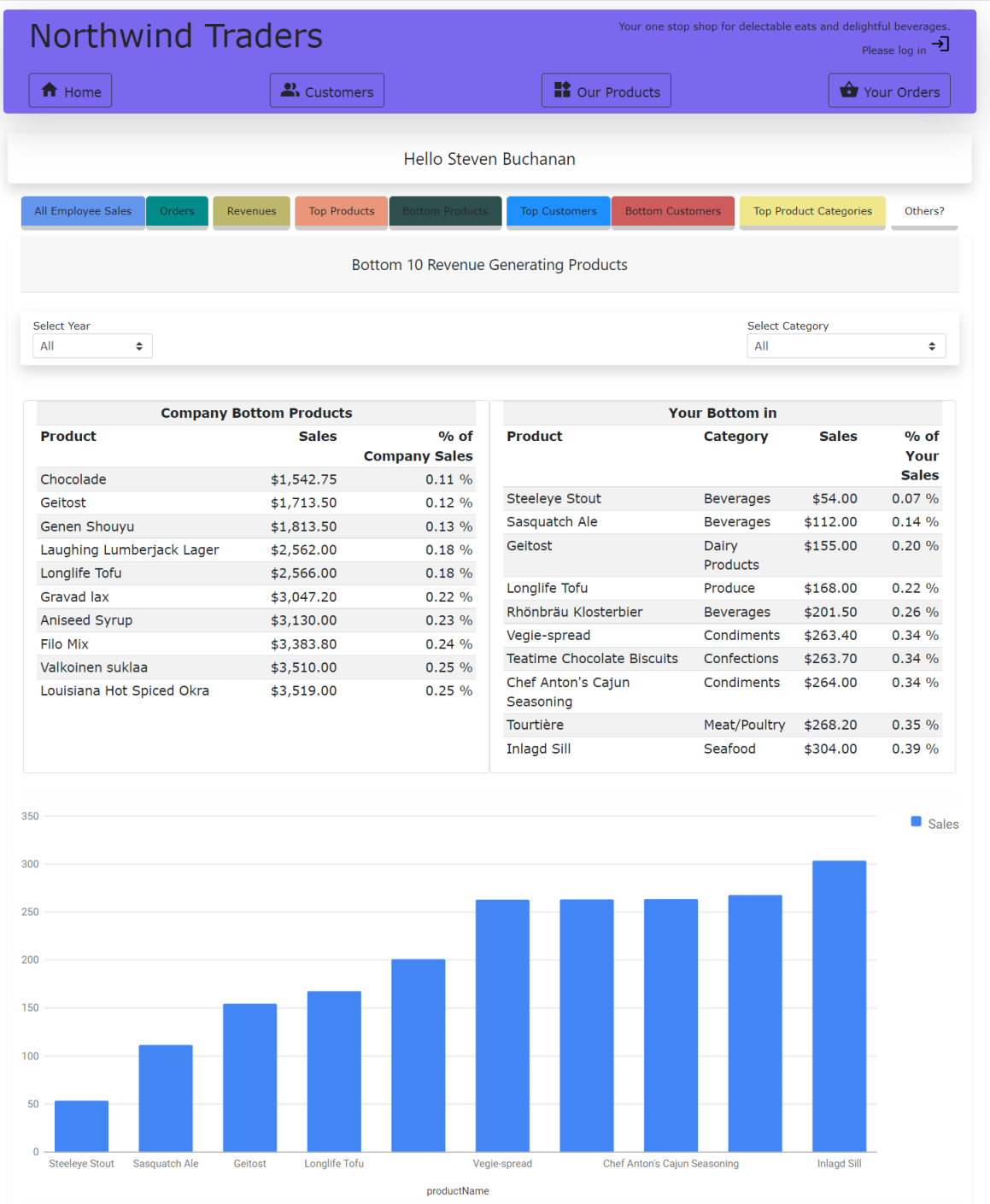
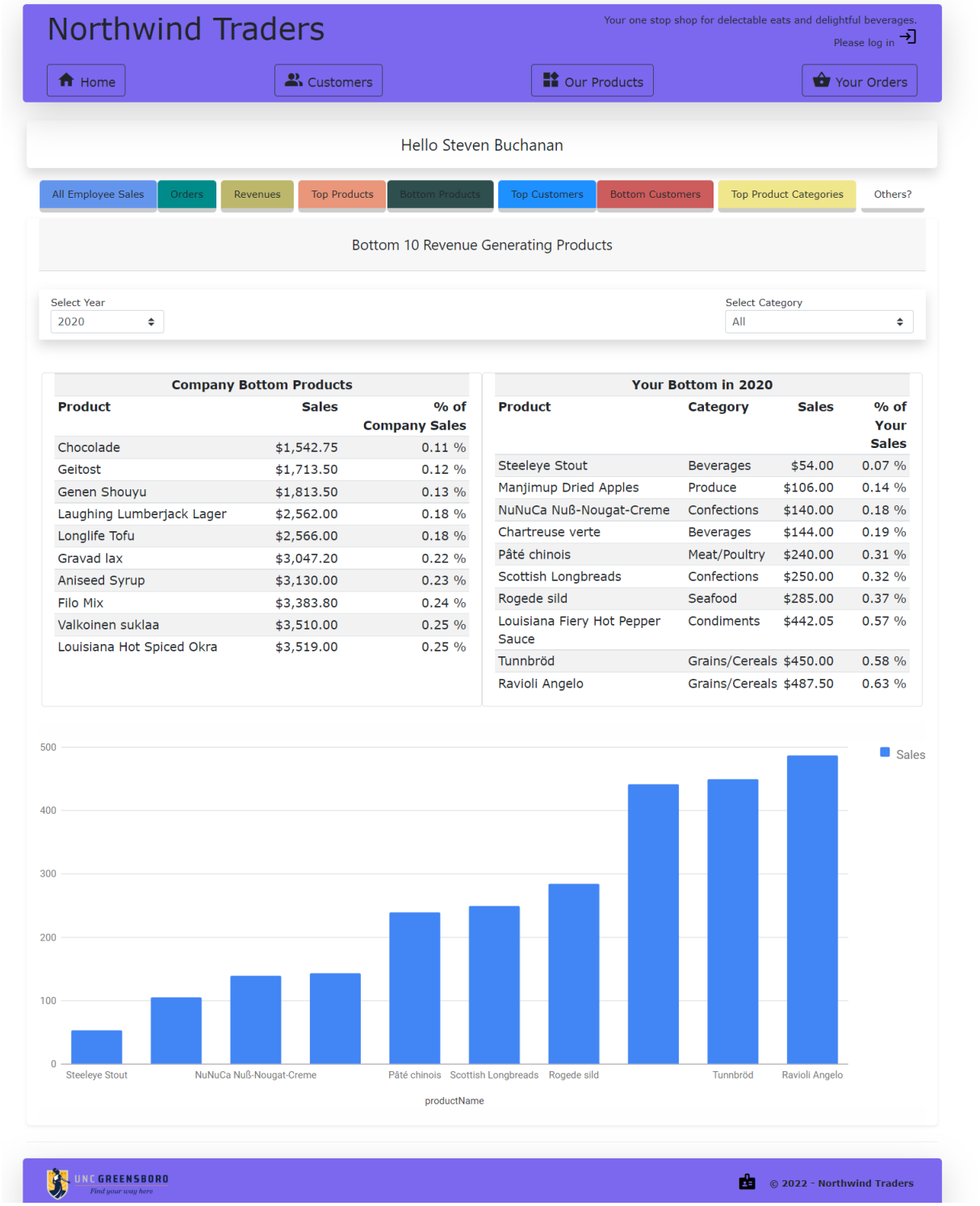
This image represents the revenue of the least products:



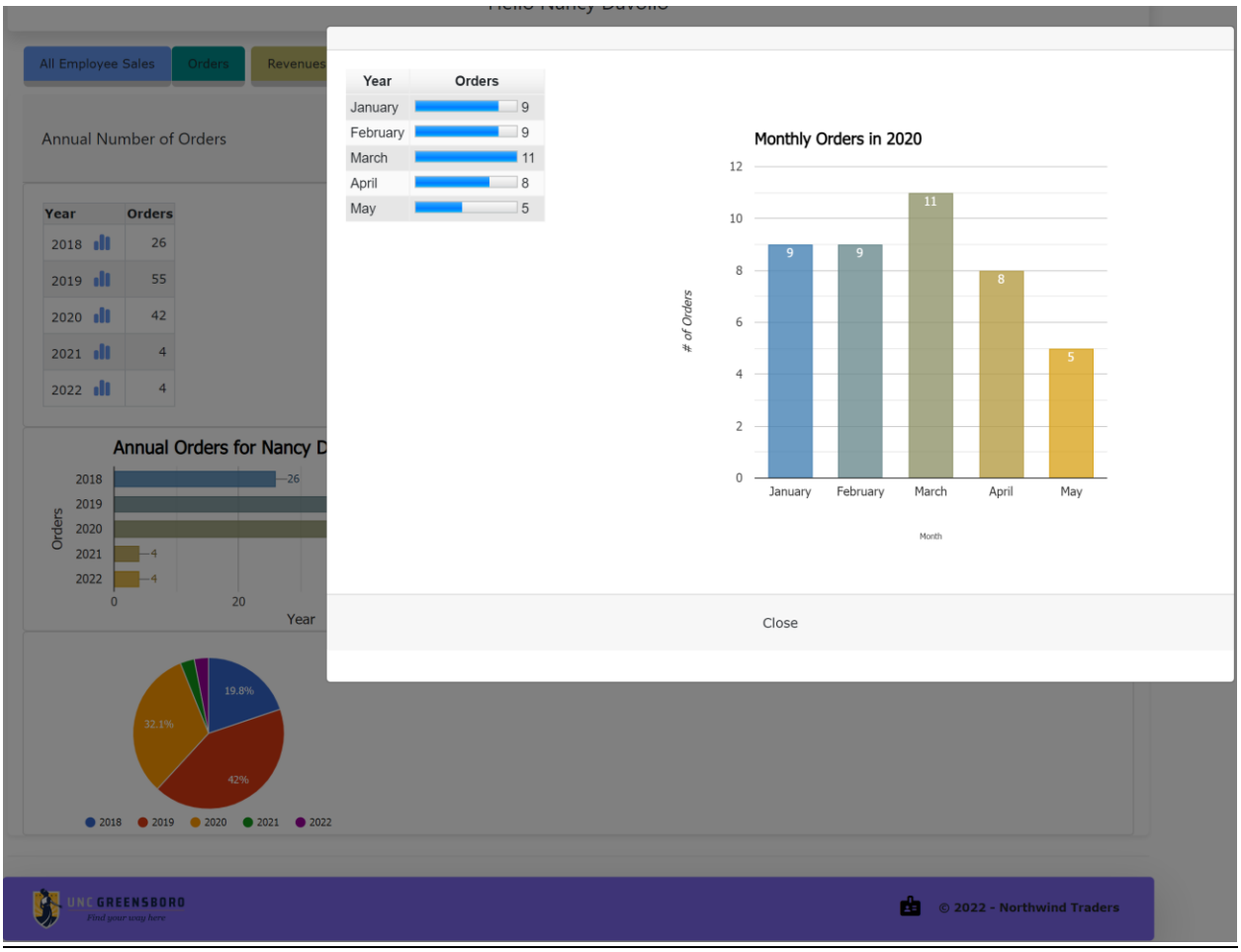
Every Year:



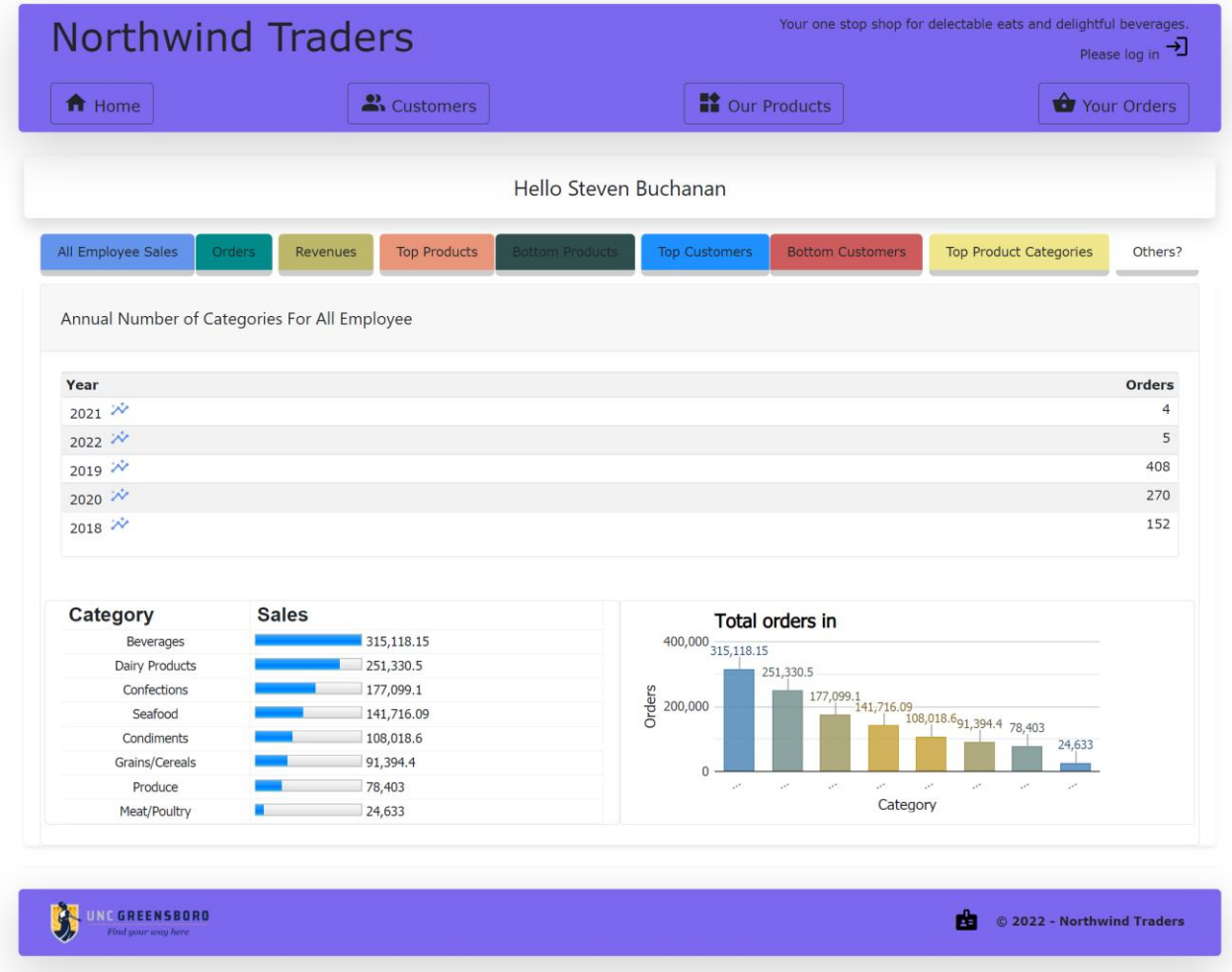
3. Annual Sales, measured as the number of orders placed, the number of products sold, and revenue generated with the ability to drill down into monthly sales for each year while comparing with the average across all employees for the same time period <u>for the employee logged in</u>:

Here you can find the Annual orders for steven Buchanan:

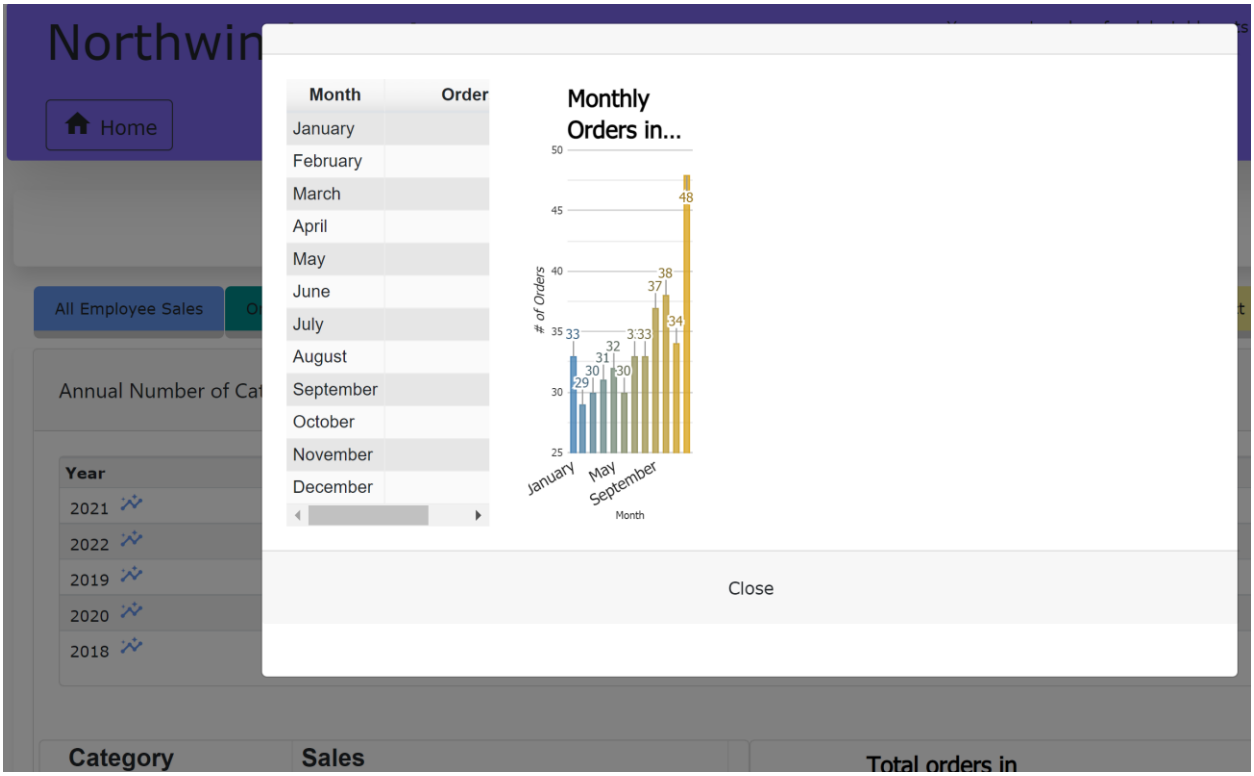
<u>Monthly orders from Nancy page:</u>



4. Annual Sales, measured as the number of orders placed, the number of products sold, and revenue generated with the ability to drill down into sales for product category for the employee logged in.



Monthly report:



5. Highest and Lowest (Top and Bottom 10) revenue-generating *customers* for each year and across all years <u>for the employee logged in</u>.

Northwind Traders

Your one stop shop for delectable eats and delightful beverages.

Please log in

Home | Customers | Our Products | Your Orders

Hello Steven Buchanan

All Employee Sales | Orders | Revenues | Top Products | Bottom Products | Bottom Customers | Top Product Categories | Others?

Top 10 Revenue Generating Customers

Select Year: All

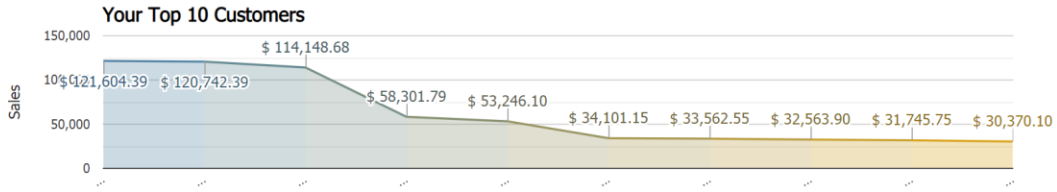
All Employee Top 10 Customers

Change to Top 10 for year

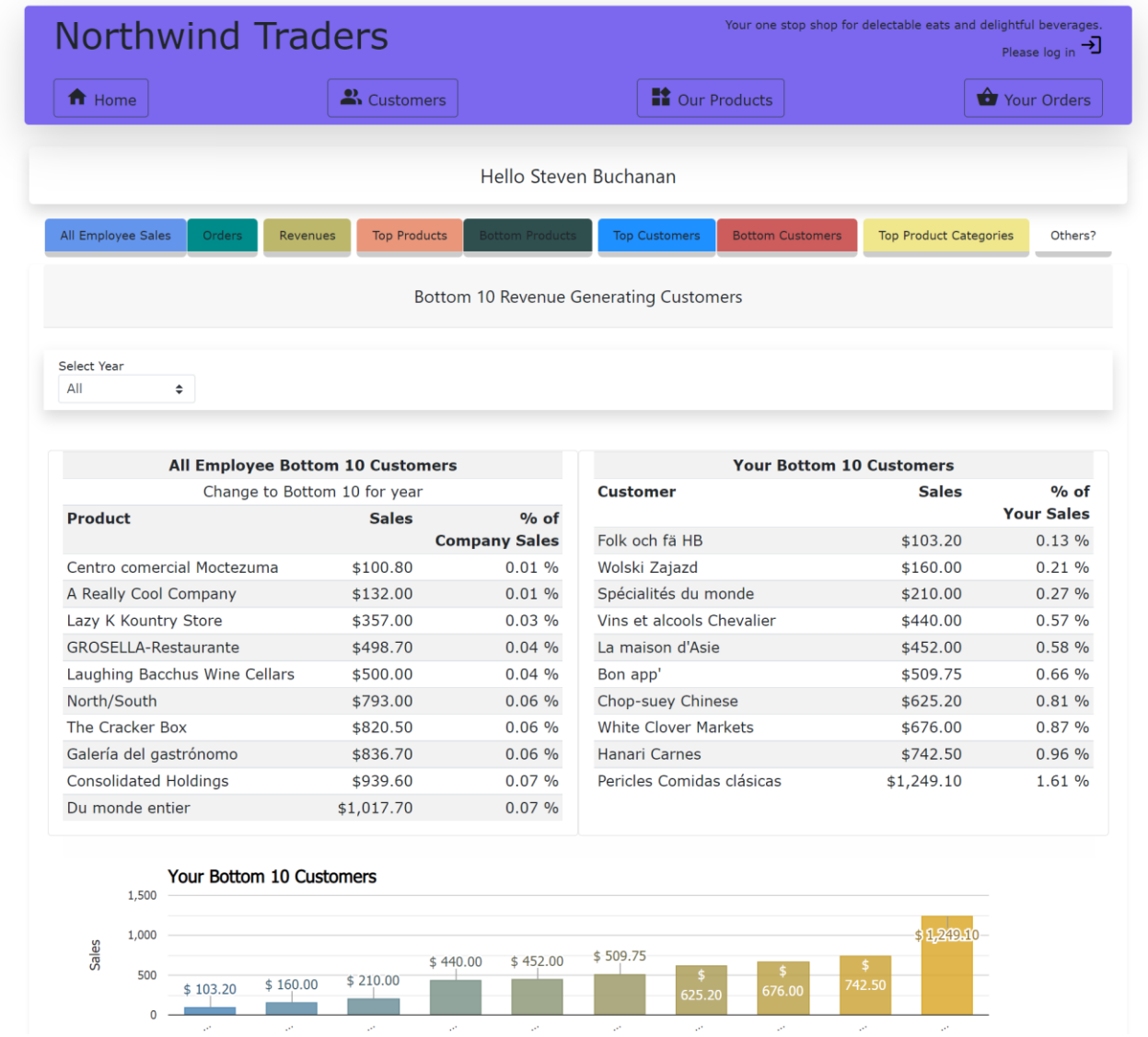
Product	Sales	% of Company Sales
QUICK-Stop	$109,990.79	7.92 %
Ernst Handel	$98,348.20	7.09 %
Save-a-lot Markets	$91,640.55	6.60 %
Rattlesnake Canyon Grocery	$49,724.30	3.58 %
Hungry Owl All-Night Grocers	$33,958.49	2.45 %
Hanari Carnes	$33,201.15	2.39 %
Mère Paillarde	$30,155.40	2.17 %
Königlich Essen	$28,639.79	2.06 %
Queen Cozinha	$28,319.00	2.04 %
Folk och fä HB	$27,373.05	1.97 %

Your Top 10 Customers

Customer	Sales	% of Your Sales
Save-a-lot Markets	$121,604.39	156.77 %
QUICK-Stop	$120,742.39	155.66 %
Ernst Handel	$114,148.68	147.16 %
Hungry Owl All-Night Grocers	$58,301.79	75.16 %
Rattlesnake Canyon Grocery	$53,246.10	68.64 %
Hanari Carnes	$34,101.15	43.96 %
Folk och fä HB	$33,562.55	43.27 %
Mère Paillarde	$32,563.90	41.98 %
Königlich Essen	$31,745.75	40.93 %
Queen Cozinha	$30,370.10	39.15 %



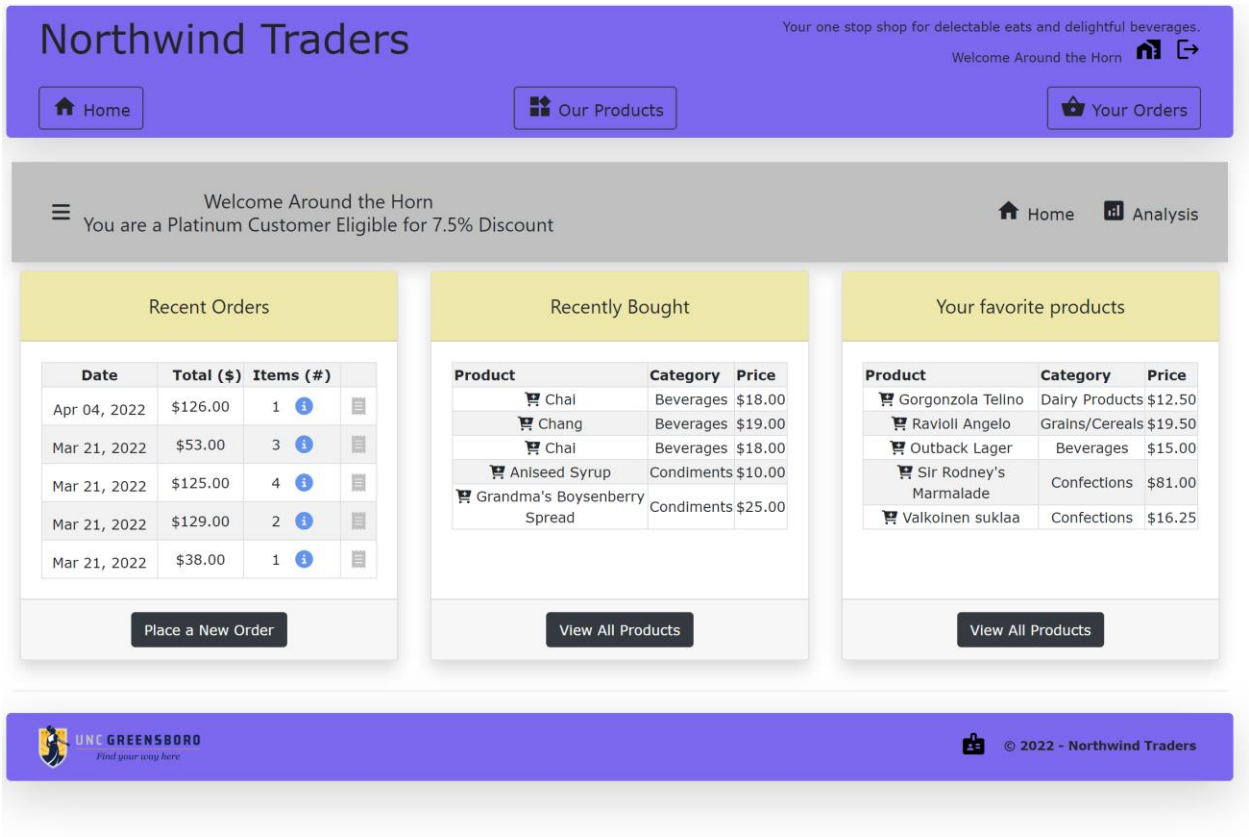
Bottom:



Requirement 2:

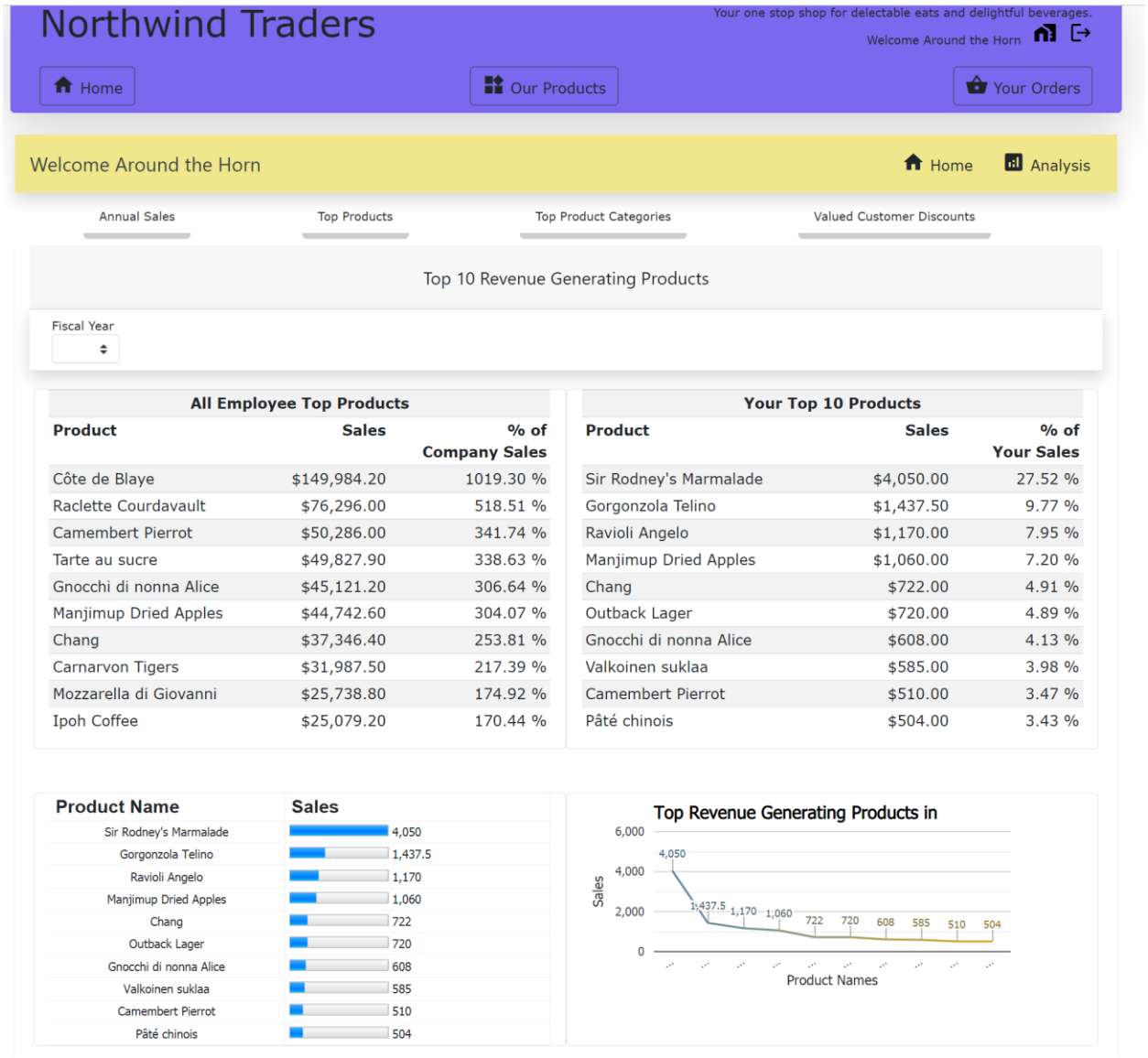
Add a customer dashboard to display a summary view of the customer's sales analysis. You can decide what information is displayed on the dashboard:

In the dashboard the customer can have access to all the data just by looking it:

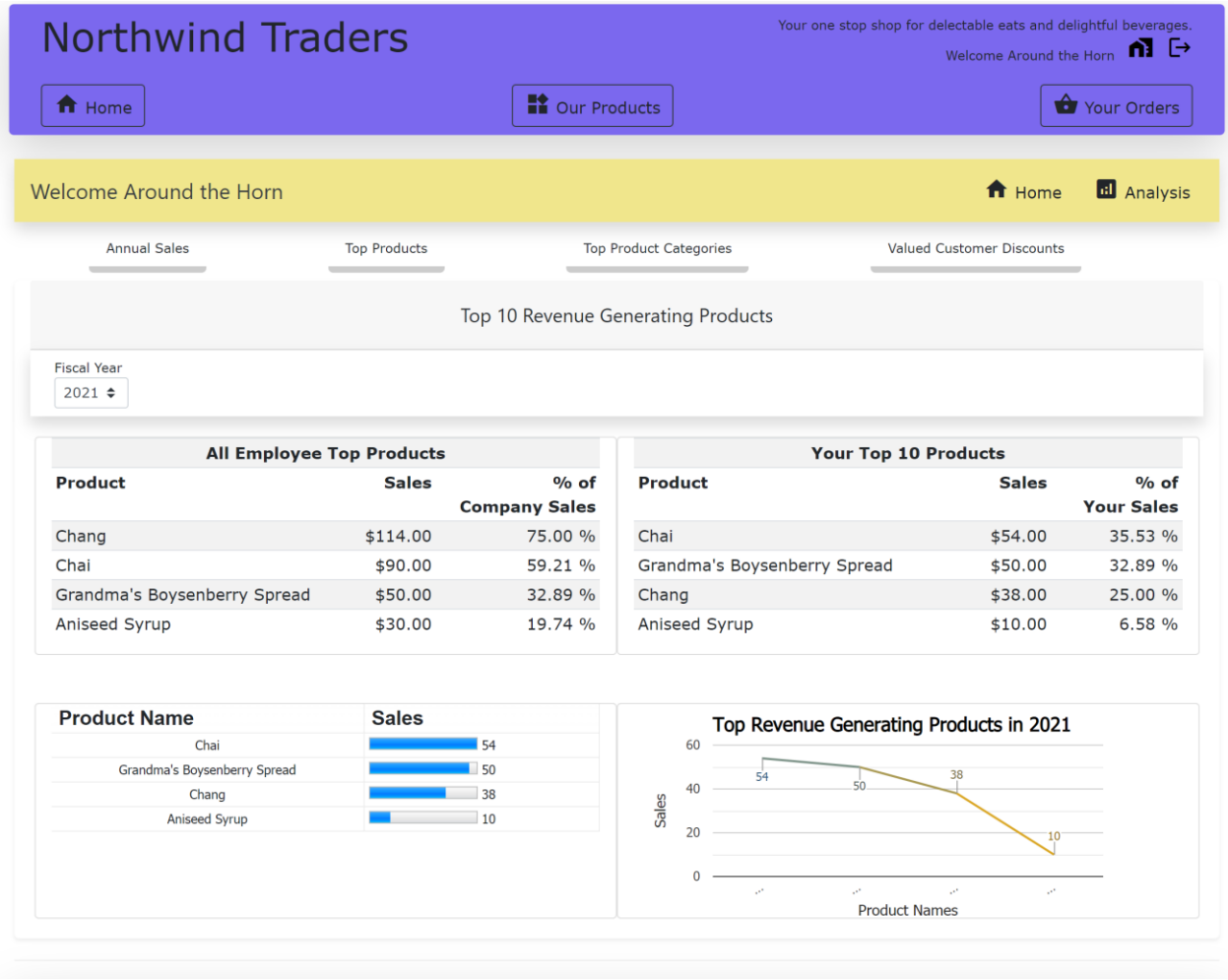


Annual Sales, as measured by the number of orders placed, the number of products sold, and the annual revenue generated (given) with the ability to drill down into monthly sales for each year:

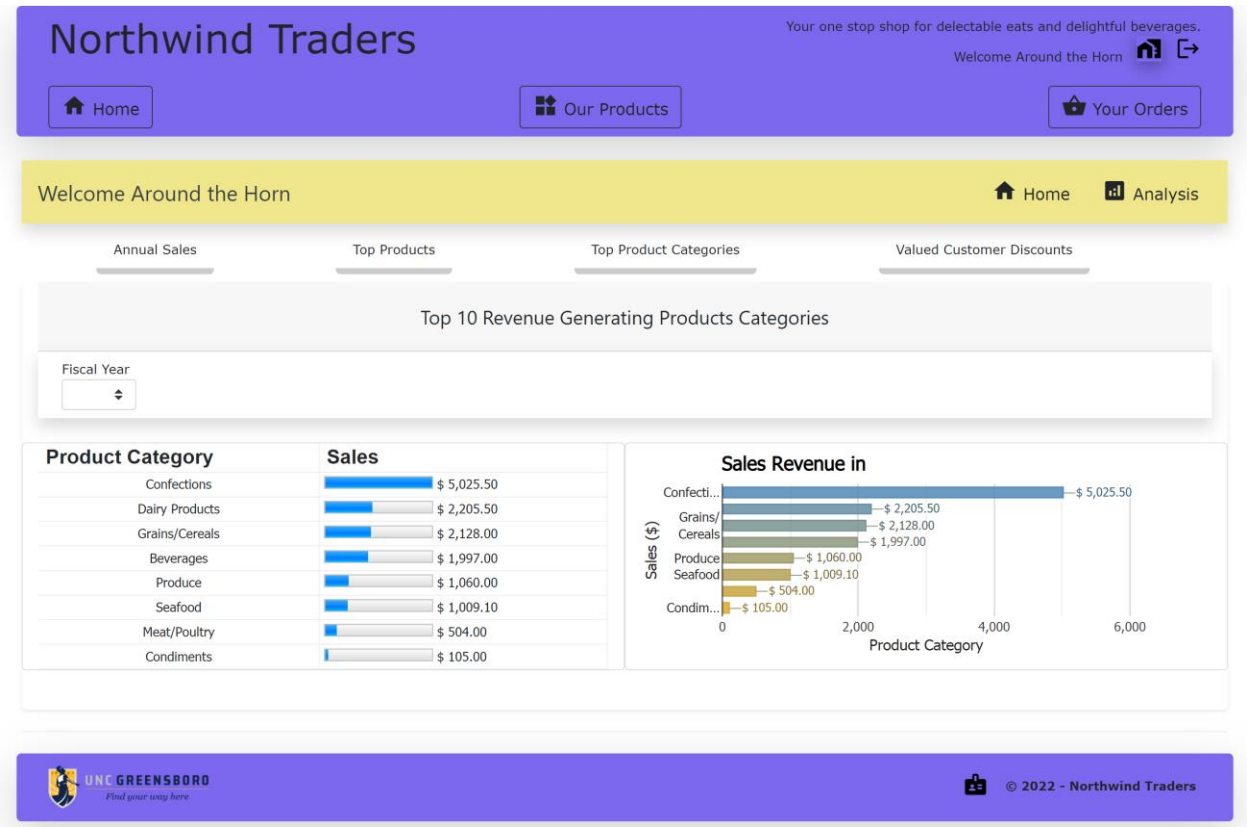
Most bought (Top 10) *products* for each year and across all years:


Northwind Traders
Your one stop shop for delectable eats and delightful beverages.
Welcome Around the Horn
Home
Our Products
Your Orders
Welcome Around the Horn
Home
Analysis
Annual Sales
Top Products
Top Product Categories
Valued Customer Discounts
Top 10 Revenue Generating Products
Fiscal Year
All Employee Top Products
Product
Sales
% of Company Sales
Côte de Blaye $149,984.20 1019.30 %
Raclette Courdavault $76,296.00 518.51 %
Camembert Pierrot $50,286.00 341.74 %
Tarte au sucre $49,827.90 338.63 %
Gnocchi di nonna Alice $45,121.20 306.64 %
Manjimup Dried Apples $44,742.60 304.07 %
Chang $37,346.40 253.81 %
Carnarvon Tigers $31,987.50 217.39 %
Mozzarella di Giovanni $25,738.80 174.92 %
Ipoh Coffee $25,079.20 170.44 %
Your Top 10 Products
Product
Sales
% of Your Sales
Sir Rodney's Marmalade $4,050.00 27.52 %
Gorgonzola Telino $1,437.50 9.77 %
Ravioli Angelo $1,170.00 7.95 %
Manjimup Dried Apples $1,060.00 7.20 %
Chang $722.00 4.91 %
Outback Lager $720.00 4.89 %
Gnocchi di nonna Alice $608.00 4.13 %
Valkoinen suklaa $585.00 3.98 %
Camembert Pierrot $510.00 3.47 %
Pâté chinois $504.00 3.43 %
Product Name
Sales
Sir Rodney's Marmalade 4,050
Gorgonzola Telino 1,437.5
Ravioli Angelo 1,170
Manjimup Dried Apples 1,060
Chang 722
Outback Lager 720
Gnocchi di nonna Alice 608
Valkoinen suklaa 585
Camembert Pierrot 510
Pâté chinois 504
Top Revenue Generating Products in
6,000
4,000
2,000
0
Sales
4,050
1,437.5
1,170
1,060
722
720
608
585
510
504
Product Names

Every Year:



Most bought (Top 10) *product categories* for each year and across all years:


Northwind Traders
Your one stop shop for delectable eats and delightful beverages.
Welcome Around the Horn
Home
Our Products
Your Orders
Welcome Around the Horn
Home
Analysis
Annual Sales
Top Products
Top Product Categories
Valued Customer Discounts
Top 10 Revenue Generating Products Categories
Fiscal Year
Product Category
Sales
Confections $ 5,025.50
Dairy Products $ 2,205.50
Grains/Cereals $ 2,128.00
Beverages $ 1,997.00
Produce $ 1,060.00
Seafood $ 1,009.10
Meat/Poultry $ 504.00
Condiments $ 105.00
Sales Revenue in
Confecti... $ 5,025.50
Grains/ Cereals $ 2,128.00
$ 2,205.50
$ 1,997.00
Produce $ 1,060.00
Seafood $ 1,009.10
$ 504.00
Condim... $ 105.00
Sales ($)
0
2,000
4,000
6,000
Product Category
UNC GREENSBORO
Find your way here
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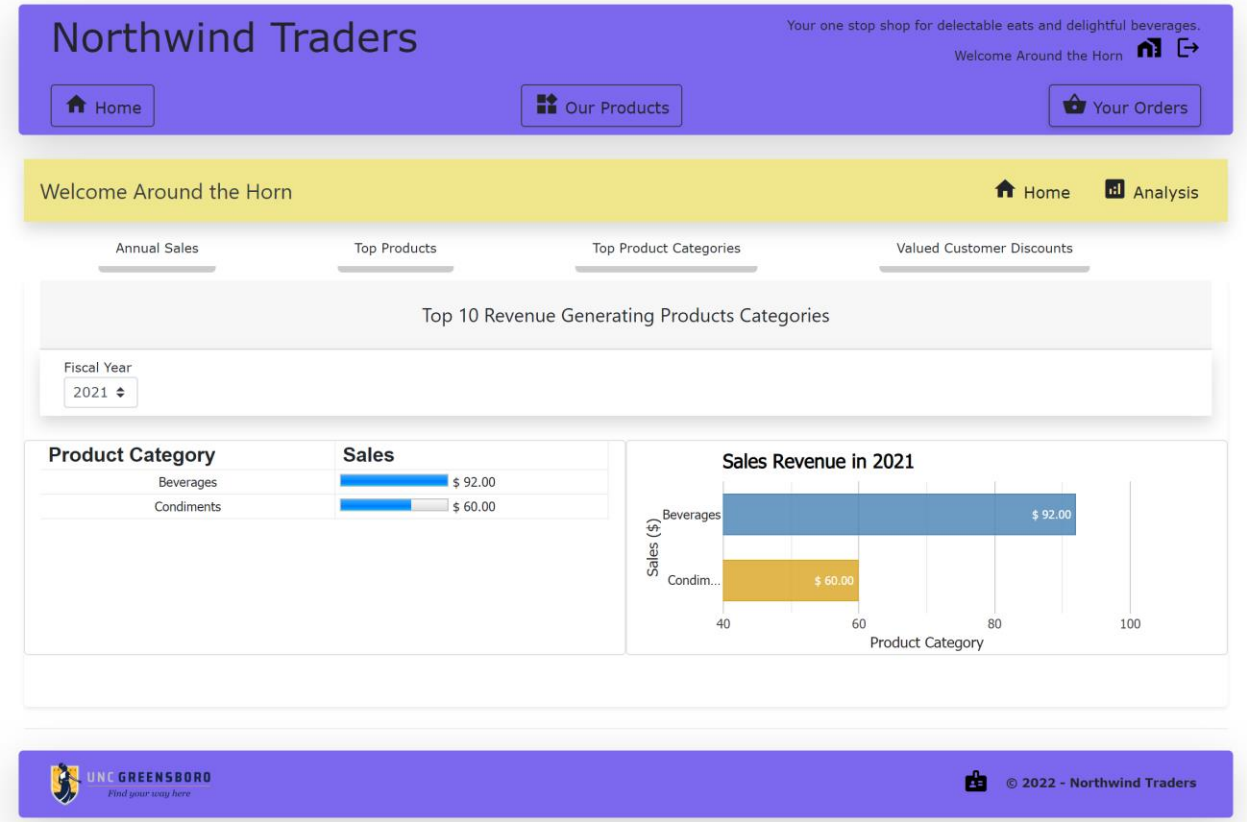
Every Year:

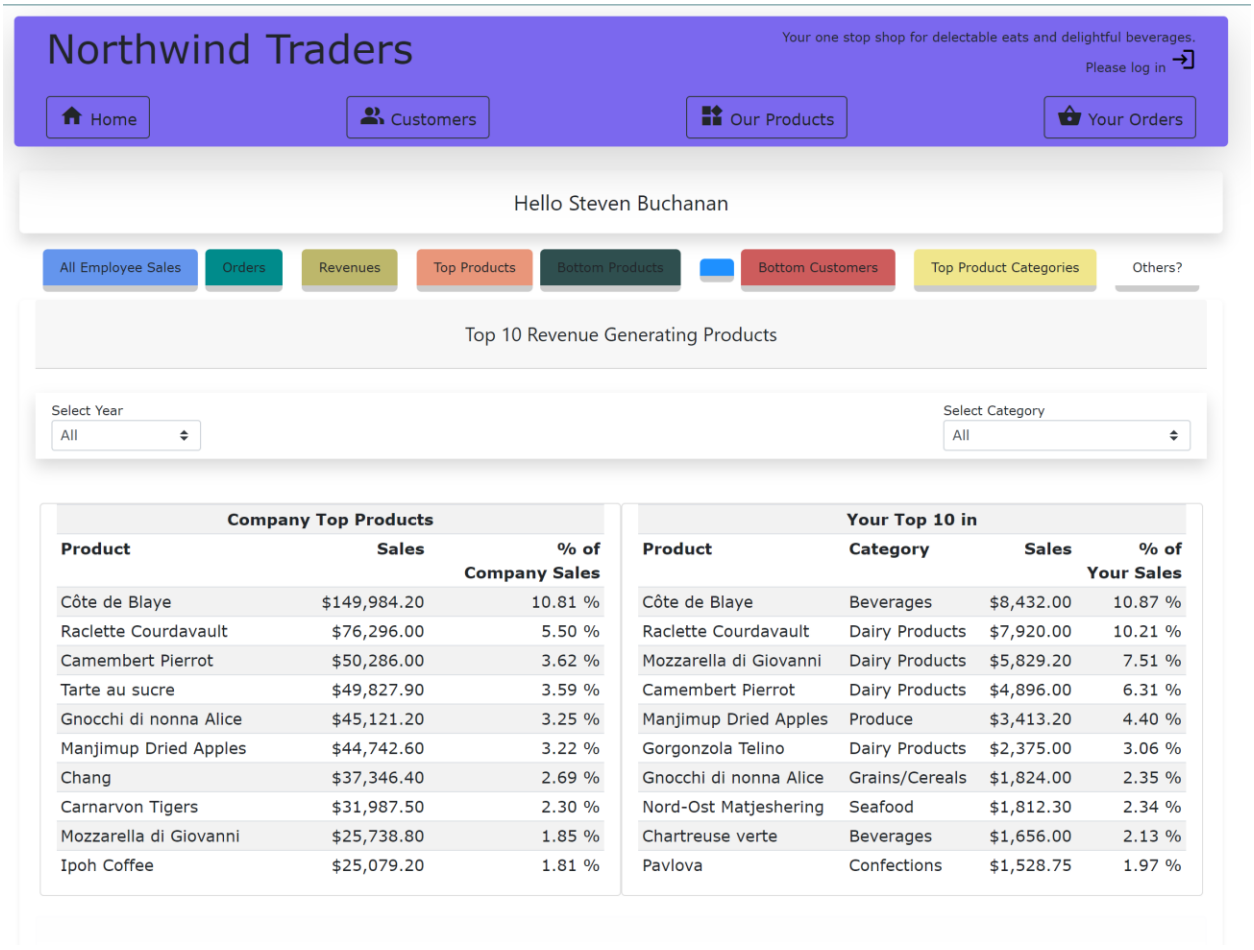


Using the suitable designs, I have made the page look good and attractive.

Extra Credits:

EC1: Make the user dashboard interactive to allow the user to view information based on dimensions such as Dates, Product Categories, Suppliers, etc.:

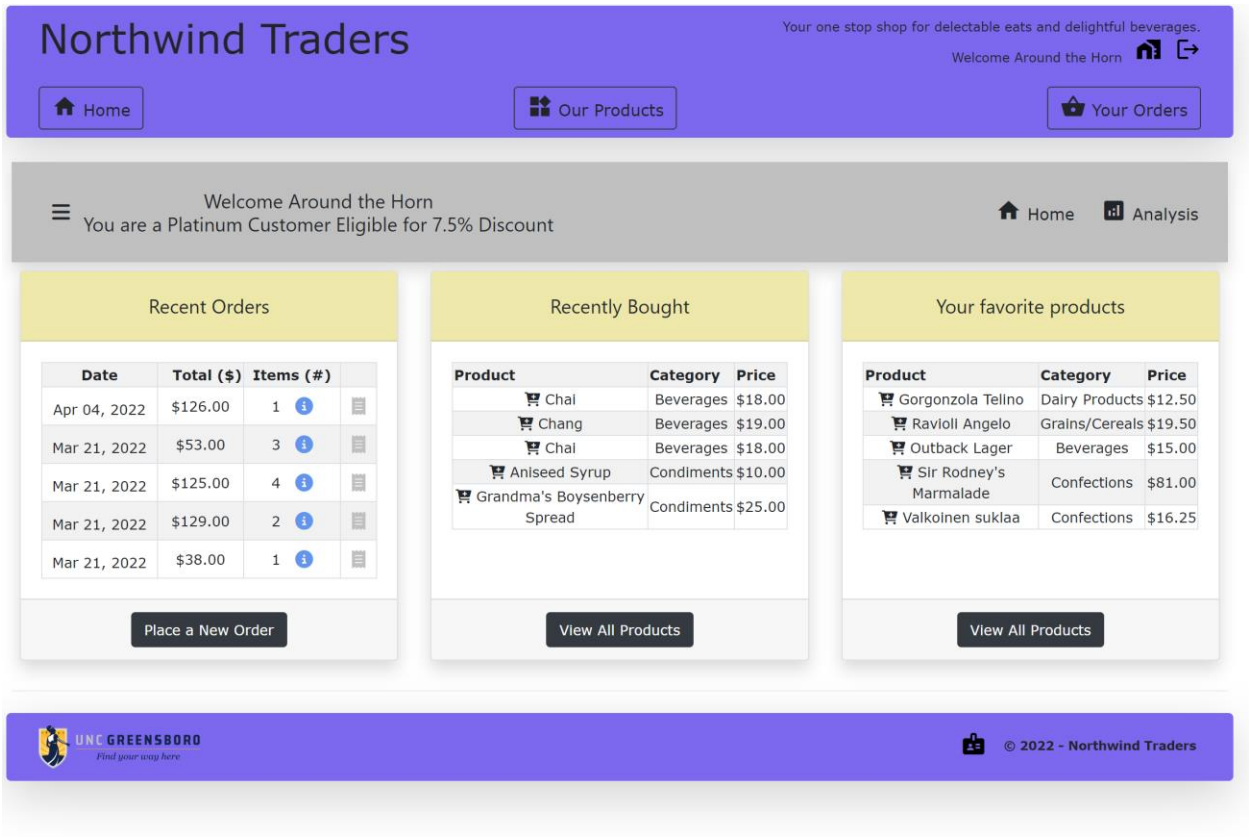
This page you can find the information based on the following dimensions.



Company Top Products		
Product	**Sales**	**% of Company Sales**
Côte de Blaye	$149,984.20	10.81 %
Raclette Courdavault	$76,296.00	5.50 %
Camembert Pierrot	$50,286.00	3.62 %
Tarte au sucre	$49,827.90	3.59 %
Gnocchi di nonna Alice	$45,121.20	3.25 %
Manjimup Dried Apples	$44,742.60	3.22 %
Chang	$37,346.40	2.69 %
Carnarvon Tigers	$31,987.50	2.30 %
Mozzarella di Giovanni	$25,738.80	1.85 %
Ipoh Coffee	$25,079.20	1.81 %

Your Top 10 in			
Product	**Category**	**Sales**	**% of Your Sales**
Côte de Blaye	Beverages	$8,432.00	10.87 %
Raclette Courdavault	Dairy Products	$7,920.00	10.21 %
Mozzarella di Giovanni	Dairy Products	$5,829.20	7.51 %
Camembert Pierrot	Dairy Products	$4,896.00	6.31 %
Manjimup Dried Apples	Produce	$3,413.20	4.40 %
Gorgonzola Telino	Dairy Products	$2,375.00	3.06 %
Gnocchi di nonna Alice	Grains/Cereals	$1,824.00	2.35 %
Nord-Ost Matjeshering	Seafood	$1,812.30	2.34 %
Chartreuse verte	Beverages	$1,656.00	2.13 %
Pavlova	Confections	$1,528.75	1.97 %

EC3: On average, a customer spends approximately $5,800.00 per year with NWTraders. Offer a program to customers where they can get
a 2.5% discount when they have spent $5000 or more per year – Gold Level,
a 5% discount when they have spent $7500 or more per year –Diamond Level,
a 7.5% discount when they have spent $10000 or more per year – Platinum Level,



Here you can find how much discount is applicable to the customer and dividing the category based on the levels.

Thank you.