

WICK_149 Project Report

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Overview

Our e-commerce operational database stores and manages transactional data related to the day-to-day operations of an Hagrid's Harvest business. It serves as a central repository for storing information such as customer data, product details, orders, inventory, and other operational aspects of the e-commerce platform.

By organizing the e-commerce data into these tables within a data warehouse, you can perform in-depth analysis and gain insights into various aspects of your business. The data warehouse structure allows for efficient querying, reporting, and integration with analytical tools, enabling you to make data-driven decisions, optimize business operations, and enhance the overall customer experience.

An e-commerce operational database is a central repository that stores and manages transactional data related to the day-to-day operations of an e-commerce business. It serves as a foundation for organizing and accessing important information such as customer data, product details, orders, inventory, and other operational aspects of the e-commerce platform.

By structuring the data into tables within a data warehouse, you can perform in-depth analysis and gain valuable insights into various aspects of your business. The data warehouse structure enables efficient querying, reporting, and integration with analytical tools, empowering you to make data-driven decisions, optimize business operations, and enhance the overall customer experience.

The key benefits of an e-commerce operational database are:

Centralized Data Management: The database serves as a central repository for all operational data, providing a unified view of your e-commerce business. This streamlines data management and ensures consistency across different aspects of your operations.

Efficient Analysis and Reporting: By structuring data into tables within a data warehouse, you can perform complex queries and generate detailed reports quickly and efficiently. This allows you to gain insights into customer behavior, product performance, sales trends, and other key metrics crucial for decision-making.

Data-Driven Decision Making: With access to comprehensive and up-to-date data, you can make informed decisions based on real-time insights. Whether it's optimizing inventory levels, improving marketing strategies, or enhancing customer service, leveraging data can drive better business outcomes.

Enhanced Customer Experience: By understanding customer behavior, preferences, and purchase history, you can personalize the shopping experience, recommend relevant products, and provide better customer support. This can lead to increased customer satisfaction and loyalty.

Integration with Analytical Tools: The structured data in the e-commerce operational database can be seamlessly integrated with various analytical tools, such as business intelligence platforms or machine learning algorithms. This enables advanced analytics, predictive modeling, and other data-driven techniques to extract actionable insights.

In summary, an e-commerce operational database, organized within a data warehouse, provides a foundation for efficient data management, analysis, and reporting. By leveraging this structured data, businesses can gain valuable insights, optimize operations, and deliver a superior customer experience in the highly competitive e-commerce landscape.

Description of Operational DB

Category: Contains information about different product categories.

Columns: Id (integer), Name (varchar)

Sub_Category: Contains information about sub-categories within each product category.

Columns: Id (integer), Name (varchar)

Products: Contains information about individual products.

Columns: ProductId (integer), ProductName (varchar), ProductPrice (numeric), InStock (char), SubCategoryId (integer), CategoryId (integer)

Foreign Key Constraints: SubCategoryId references Sub_Category(Id), CategoryId references Category(Id)

Customer: Stores information about customers.

Columns: CustomerId (integer), FirstName (varchar), LastName (varchar), Email (varchar), Age (integer), AgeRange (varchar), Gender (char), Phone (varchar), DOB (date)

Customer_Address: Stores customer address details.

Columns: AddressId (integer), AptNo (varchar), City (varchar), State (varchar), PinCode (integer), StreetName (varchar), CustomerId (integer)

Primary Key: AddressId, CustomerId

Foreign Key Constraint: CustomerId references Customer(CustomerId)

Reviews: Contains customer reviews for products.

Columns: ReviewId (integer), Ratings (integer), Description (varchar), CustomerId (integer), ProductId (integer)

Foreign Key Constraints: CustomerId references Customer(CustomerId), ProductId references Products(ProductId)

Orders: Stores information about customer orders.

Columns: OrderId (integer), DayofWeek (integer), OrderDate (date), CustomerId (integer)

Foreign Key Constraint: CustomerId references Customer(CustomerId)

Payment: Stores payment details for orders.

Columns: PaymentId (integer), PaymentMode (varchar), Amount (float), OrderId (integer)

Foreign Key Constraint: OrderId references Orders(OrderId)

Order_Details: Contains details about individual products within an order.

Columns: Quantity (integer), ProductId (integer), OrderId (integer)

Primary Key: ProductId, OrderId

Foreign Key Constraints: ProductId references Products(ProductId), OrderId references Orders(OrderId)

Description of Analytical DB

1. **Customer_D:** This table stores customer information such as CustomerId, FirstName, LastName, Email, Age, Gender, and Phone. It serves as a central repository for customer data, allowing you to analyze customer demographics and behavior.
2. **Product_D:** This table contains product details like ProductId, ProductName, ProductPrice, InStock, CategoryId, CategoryName, and SubCategoryId. It enables efficient management and analysis of product information, including pricing, availability, and categorization.
3. **Order_D:** This table captures order-related information, including OrderId, DayofWeek, and OrderDate. It helps track and analyze order data, such as sales trends over time and order frequency on specific days.
4. **Review:** This table is used to store customer reviews of products. It includes fields like Rating, Review/Description, ProductId, and CustomerId. This table facilitates sentiment analysis and enables insights into product satisfaction and customer feedback.
5. **Customer_Address_D:** This table stores customer address information, including AddressId, AptNo, City, State, PinCode, and StreetName. It allows for efficient management of customer addresses for shipping and location-based analysis.
6. **Sales:** This table captures sales data, including Quantity, Amount, AddressId, OrderId, CustomerId, and ProductId. It provides a comprehensive view of sales transactions, connecting customers, products, orders, and addresses. This table supports analysis of sales performance, revenue generation, and customer purchase behavior.

Data Gathering

The purpose of this section is to outline the data gathering process for the Instacart Market Basket Analysis project. This project aims to analyze customer shopping behavior and patterns to provide insights and recommendations to improve Instacart's operations. To achieve this, two primary data sources were utilized: the Instacart Market Basket Analysis dataset from Kaggle and Mockeroo.

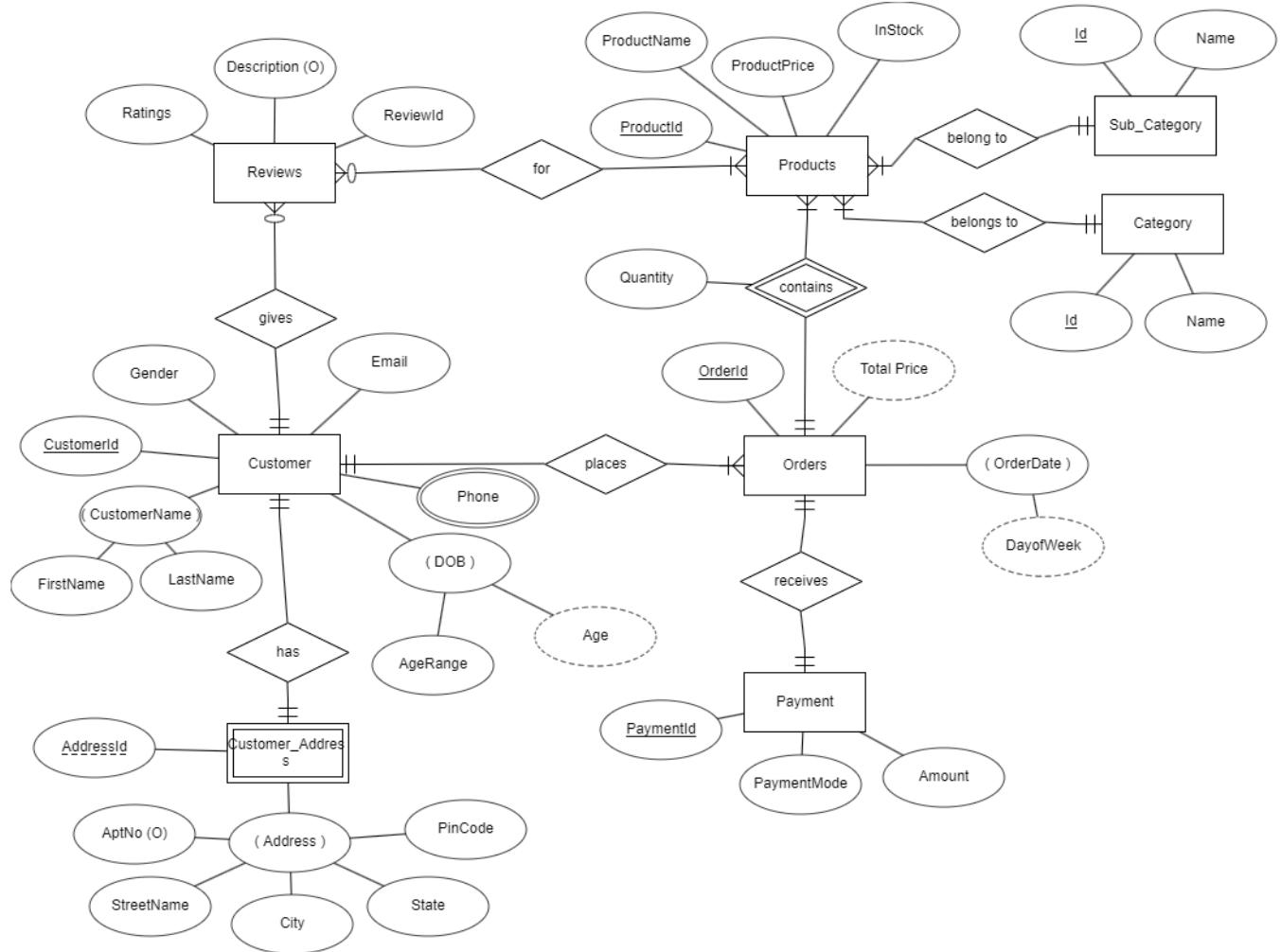
Instacart Market Basket Analysis Dataset:

[<https://www.kaggle.com/competitions/instacart-market-basket-analysis/data>]

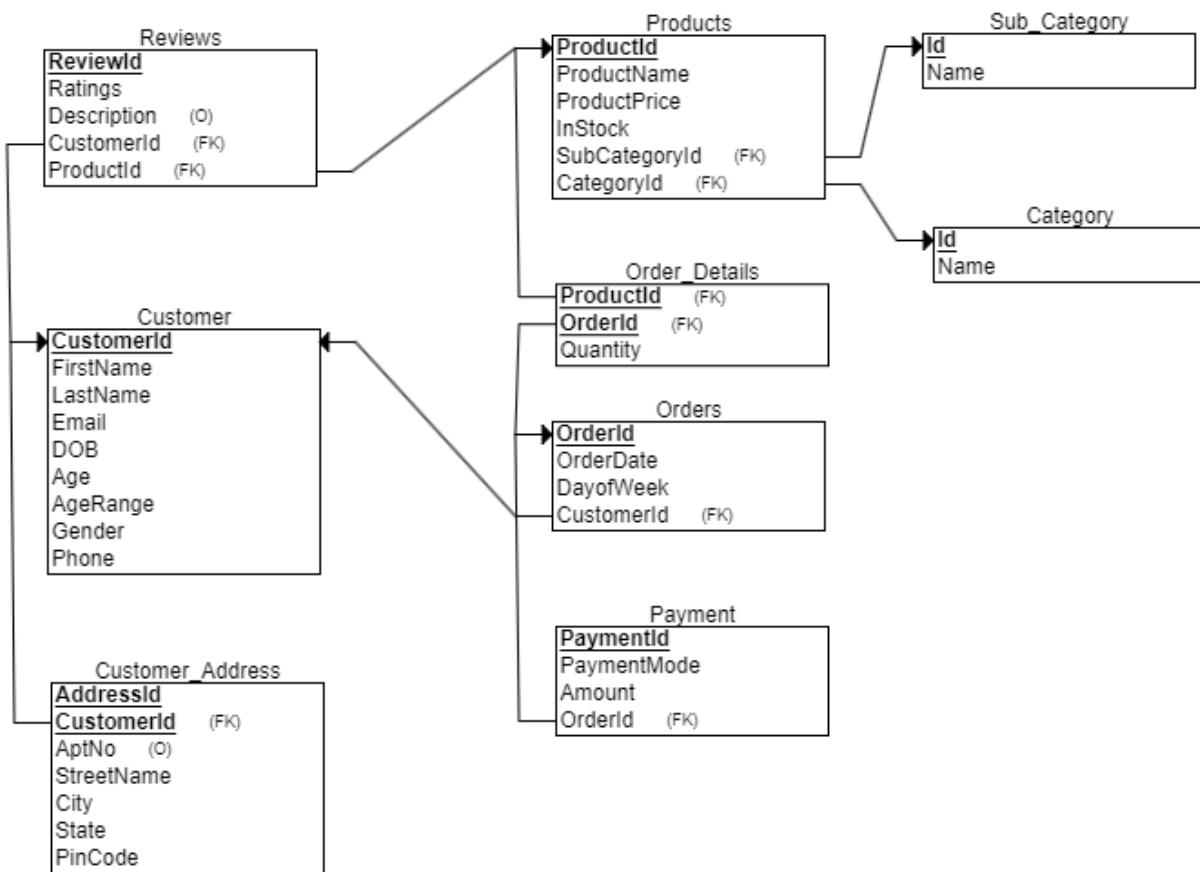
The Instacart Market Basket Analysis dataset, obtained from Kaggle, serves as the primary data source for this project. The dataset contains anonymized transactional data from a sample of Instacart customers. It includes information such as order details, product details, and customer demographics. The dataset is comprehensive and diverse, making it ideal for performing in-depth analysis and uncovering valuable insights.

Mockeroo: Mockeroo is another data source employed to enhance the Instacart dataset. It enables the generation of synthetic data to supplement the existing dataset. By using Mockeroo, we can augment the available data with additional records, simulate different scenarios, and validate the effectiveness of our analysis models.

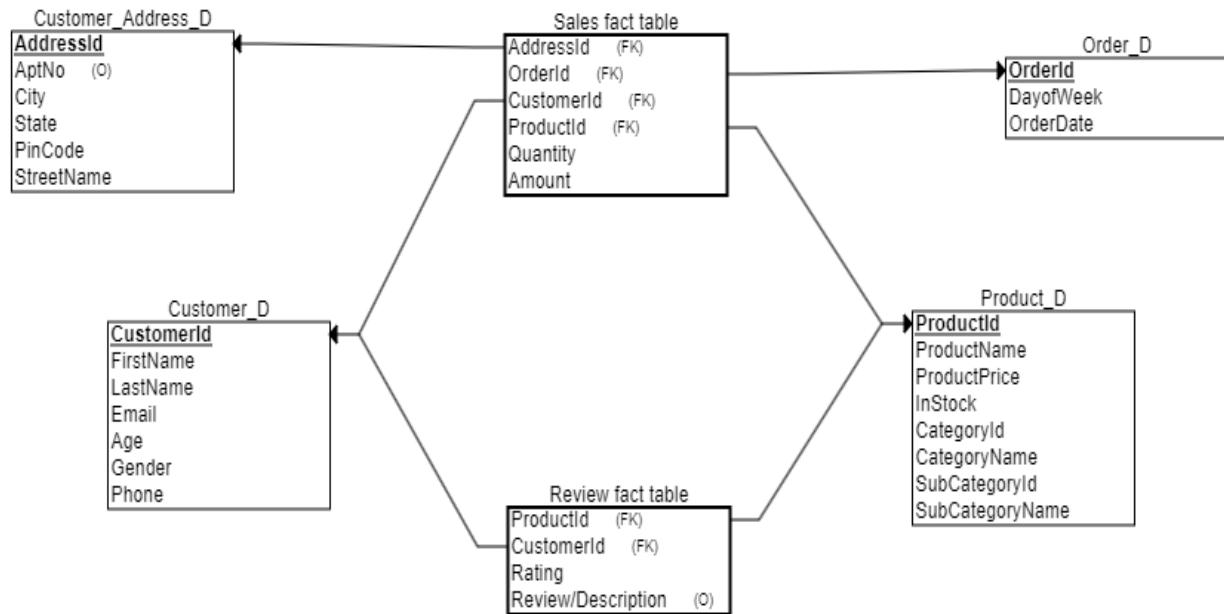
ER Diagram



Relational Schema



Star Schema



Operational Queries

Display products in a category

```
SELECT Category.Name AS 'Category Name', count(*) AS 'Number of Products'  
FROM Products, Category  
WHERE Products.CategoryId = Category.Id  
GROUP BY CategoryId;
```

Top 10 most popular products

```
SELECT p.ProductName AS ProductName, COUNT(*) AS TimesOrdered  
FROM Products p  
JOIN Order_Details od ON p.ProductId = od.ProductId  
GROUP BY p.ProductName  
ORDER BY TimesOrdered DESC  
LIMIT 10;
```

Top 10 customers

```
SELECT CONCAT(FirstName, ' ', LastName) AS 'FullName', count(OrderId) AS  
'TotalOrders' FROM Orders, Customer  
WHERE Orders.customerId = Customer.CustomerId  
GROUP BY Orders.customerId  
ORDER BY count(OrderId) DESC  
LIMIT 10;
```

Sales by Month

```
SELECT DATE_FORMAT(OrderDate, '%m') AS Month,  
ROUND(SUM(Payment.Amount), 2) AS 'TotalRevenue (in USD)'  
FROM Orders  
INNER JOIN Payment ON Orders.OrderId = Payment.OrderId  
WHERE DATE_FORMAT(OrderDate, '%m') = {value}  
GROUP BY Month;
```

Analytical Queries

Inventory Analysis by Category

```
SELECT count(*), InStock
    FROM Product_D
    WHERE CategoryName = '{category}'
    GROUP BY InStock
    ORDER BY InStock;
```

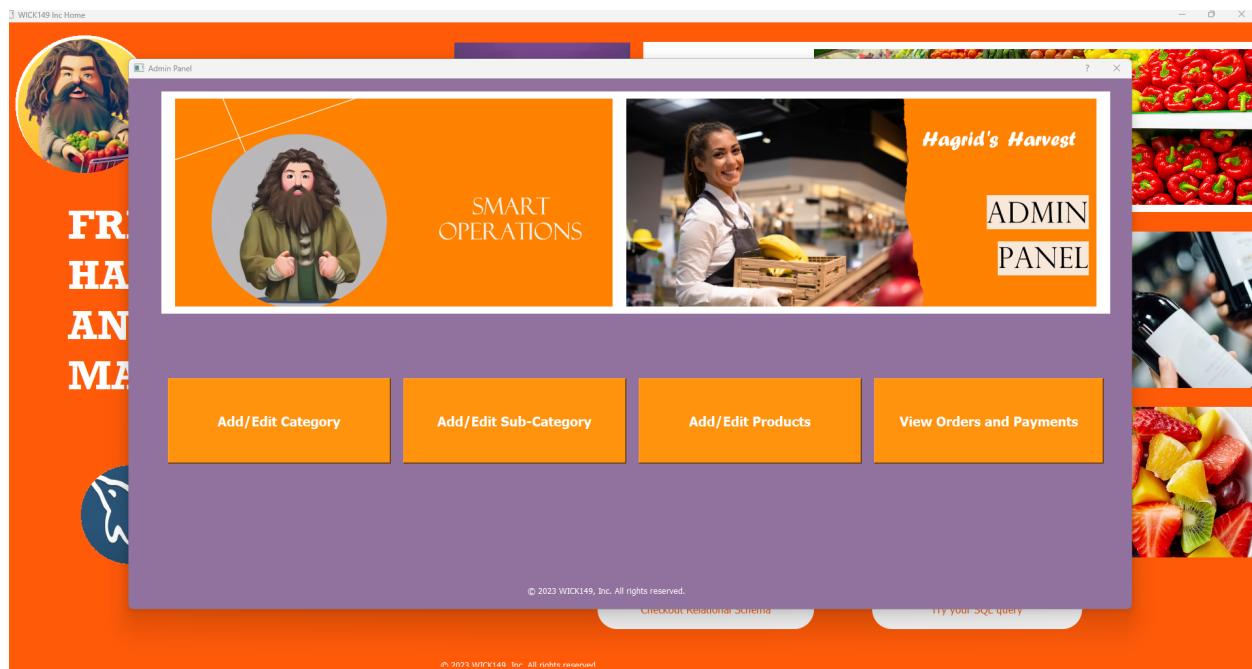
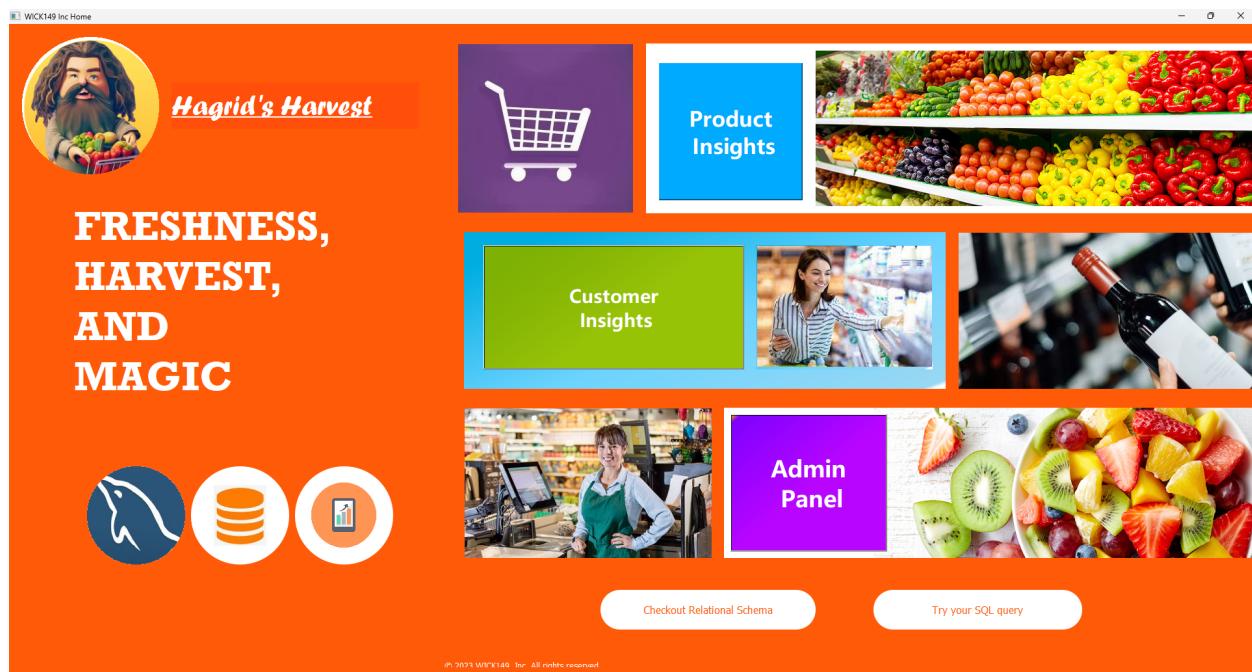
New vs Returning Customer Analysis

```
SELECT COUNT(DISTINCT CASE WHEN orders_count = 1 THEN c.CustomerId END)
AS customers_with_1_order,
COUNT(DISTINCT CASE WHEN orders_count > 1 THEN c.CustomerId END) AS
customers_with_more_than_1_order
    FROM Customer_D AS c
    INNER JOIN (
        SELECT CustomerId, COUNT(*) AS orders_count
        FROM
            Sales AS s
            INNER JOIN Order_D AS o ON s.OrderId = o.OrderId
            INNER JOIN Customer_Address_D AS ca ON s.AddressId = ca.AddressId
        WHERE
            ca.State = '{state}'
        GROUP BY
            CustomerId
    ) AS so ON c.CustomerId = so.CustomerId;
```

Total Sales by Year

```
SELECT MONTH(o.OrderDate) AS Month, SUM(s.Amount) AS TotalSales
    FROM
        Order_D AS o
        INNER JOIN Sales AS s ON o.OrderId = s.OrderId
    WHERE YEAR(o.OrderDate) = {year}
    GROUP BY MONTH(o.OrderDate)
    ORDER BY MONTH(o.OrderDate);
```

User Scenarios with screenshots



Create New Category Window



Hagrid's Harvest

[View/Edit Existing Category](#)

[Create New Category](#)

	Id	Category Name	Update
1	1	dairy	Update
2	2	other	Update
3	3	bakery	Update
4	4	produce	Update
5	5	alcohol	Update
6	6	international	Update
7	7	beverages	Update
8	8	pets	Update

Enter Category Name
in Text Box

Submit Cancel

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Create New Sub-Category Window ? X



Hagrid's Harvest

View/Edit Existing Sub-Category

	Id	Sub-Category Name	Update
1	1	prepared soups salads	Update
2	2	specialty cheeses	Update
3	3	energy granola bars	Update
4	4	instant foods	Update
5	5	marinades meat preparation	Update
6	6	other	Update
7	7	packaged meat	Update
8	8	bakery desserts	Update

Create New Sub-Category

Enter Sub-Category Name
in Text Box

Submit

Cancel

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Create New Products Window ? X



Hagrid's Harvest

View Existing Products

	Productid	ProductName	Prod. A.
1	1	Chocolate Sandwich Cookies	5.49
2	2	All-Seasons Salt	4.49
3	3	Robust Golden Unsweetened Oolong Tea	2.29
4	4	Smart Ones Classic Favorites Mini Rigatoni With Vodka Cream Sauce	8.49
5	5	Green Chile Anytime Sauce	5.29
6	6	Dry Nose Oil	6.99
7	7	Pure Coconut Water With Orange	7.49
8	8	Cut Russet Potatoes Steam N' Mash	1.49
9	9	Light Strawberry Blueberry Yogurt	3.79
10	10	Sparkling Orange Juice & Prickly Pear Beverage	7.29
11	11	Peach Manao Juice	5.49

Create New Product

Name

Price

Product currently In Stock ?

Choose Product Category

Choose Product Sub-Category

Submit

Cancel

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Edit Order Window



Hagrid's Harvest

[View Existing Orders](#)

	OrderId	OrderDate	CustomerId	PaymentId	FirstName	LastName	Amount	PaymentMode
1	10000	2022-02-19	5601	100	Mordecai	De Luna	66.09	cash
2	10001	2020-12-13	9101	101	Tatiana	Powis	5.98	cash
3	10002	2023-02-22	8528	102	Carmine	Luckie	103.24	cash
4	10003	2020-09-19	1131	103	Aurel	Leader	16.25	gift_card
5	10004	2020-04-26	7330	104	Else	Sterzaker	126.45	gift_card
6	10005	2022-02-16	9474	105	Noelle	Crichton	29.94	cash
7	10006	2021-03-02	7945	106	Morly	Osinin	98.24	credit_card
8	10007	2022-06-16	1542	107	Tatum	Putty	27.16	debit_card
9	10008	2023-02-22	3094	108	Zolly	Alner	120.63	debit_card
10	10009	2022-11-02	2425	109	Kellie	Canaan	81.43	cash

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Product & Category Insights ?



BETTER INSIGHTS, BETTER SALES

Hagrid's Harvest

PRODUCT
INSIGHTS

Select Category

- Number of Products per Category
- Product Info in Sub-Category Per Category
- Most Popular Products

Products Whose Price Is Less than Slider Value

Select Price

What are the categories

Category Name
1 dairy
2 other
3 bakery
4 produce
5 alcohol
6 international
7 beverages

What are the sub-categories

Category Name	Number of Products
1 dairy	4007
2 other	548
3 bakery	1516
4 produce	1684
5 alcohol	1054
6 international	1139
7 beverages	4365

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Product & Category Insights ? X



BETTER INSIGHTS, BETTER SALES

Hagrid's Harvest

PRODUCT
INSIGHTS

Select Category

- Number of Products per Category
- Product Info in Sub-Category Per Category
- Most Popular Products

Products Whose Price Is Less than Slider Value

Select Price

What are the categories

Category Name
1 dairy
2 other
3 bakery
4 produce
5 alcohol
6 international
7 beverages

What are the sub-categories

Category Name	Number of Products
1 dairy	4007
2 other	548
3 bakery	1516
4 produce	1684
5 alcohol	1054
6 international	1139
7 beverages	4365

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Product & Category Insights



BETTER INSIGHTS, BETTER SALES



Hagrid's Harvest

PRODUCT INSIGHTS

Select Category

Number of Products per Category

Product Info in Sub-Category Per Category

Most Popular Products

Products Whose Price Is Less than Slider Value

Select Price

Category ID	Category Name	Num Of Products	Average Product Price
1	frozen meals	880	8.67
2	frozen produce	361	3.61
3	frozen dessert	112	6.50
4	frozen pizza	335	7.15
5	frozen breads doughs	81	5.04
6	frozen meat seafood	229	10.64
7	ice cream ice	1091	6.66

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Product & Category Insights



BETTER INSIGHTS, BETTER SALES



Hagrid's Harvest

PRODUCT INSIGHTS

Select Category

Number of Products per Category

Product Info in Sub-Category Per Category

Most Popular Products

Products Whose Price Is Less than Slider Value

Select Price

ProductName	TimesOrdered
White Truffle Flavored Extra Virgin Olive Oil Spray	9
Gluten Free Brown Rice Crust Duo Cheese Pizza	7
Red Pepper, Crushed	7
Everyday Coconut Mint Lip Balm	7
High Life	7
Parmesan Garlic Pita Chips	6
Bamboo Appetizer Picks	6

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Product & Category Insights



BETTER INSIGHTS, BETTER SALES



Hagrid's Harvest

PRODUCT INSIGHTS

Select Category: **dairy**

- Number of Products per Category
- Product Info in Sub-Category Per Category
- Most Popular Products

Products Whose Price Is Less than Slider Value

Select Price: **10**

ProductId	ProductName	ProductPrice	InStock	SubCategoryId	CategoryId
1	Chocolate Sandwich Cookies	5.49	1	61	19
2	All-Seasons Salt	4.49	1	104	13
3	Robust Golden Unsweetened Oolong Tea	2.29	1	94	7
4	Smart Ones Classic Favorites Mini Rigatoni With Vodka Cream Sauce	8.49	1	38	1
5	Green Chile Anytime Sauce	5.29	1	5	13
6	Dry Nose Oil	6.99	1	11	11

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Customer Insights



HEALTHY EATING



Hagrid's Harvest

CUSTOMER INSIGHTS

Select payment mode: **credit_card**

Number of orders per payment mode

- Top 5 customers with most orders
- Top 10 states with highest sales

Total Revenue by Month Number: **1**

Select customer name: **Joella Schimpke**

- Order History for Customer
- Customer Location Order Frequency
- Customer Lifetime Value

Payment Mode Usage Count

1 4272

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Customer Insights



HEALTHY EATING



Hagrid's Harvest

CUSTOMER INSIGHTS

Select payment mode: credit_card

Number of orders per payment mode

Top 5 customers with most orders

Top 10 states with highest sales

Total Revenue by Month Number: 1

Select customer name: Joella Schimpke

- Order History for Customer
- Customer Location Order Frequency
- Customer Lifetime Value

FullName	TotalOrders
1 Mylo Guterson	7
2 Humfried Foli	7
3 Jerie Cybles	7
4 Christal Grinval	7
5 Winfield Luetkemeyers	7
6 Elliott Holtaway	7
7 Tommy Windsor	6
8 Lorelei Lomasney	6

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Customer Insights



HEALTHY EATING



Hagrid's Harvest

CUSTOMER INSIGHTS

Select payment mode: credit_card

Number of orders per payment mode

Top 5 customers with most orders

Top 10 states with highest sales

Total Revenue by Month Number: 1

Select customer name: Joella Schimpke

- Order History for Customer
- Customer Location Order Frequency
- Customer Lifetime Value

State	TotalSales
1 California	97708.66
2 Texas	88415.49
3 Florida	65152.36
4 New York	47731.77
5 Ohio	31406.56
6 Pennsylvania	27673.13
7 District of Columbia	26089.94
8 Virginia	25914.83

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Customer Insights

HEALTHY EATING

Hagrid's Harvest

CUSTOMER INSIGHTS

Select payment mode: credit_card

Number of orders per payment mode

Top 5 customers with most orders

Top 10 states with highest sales

Total Revenue by Month Number

Order ID	Order Date	Product Name	Quantity	Product Price	Order Total
1 11361	2022-05-24	Dairy Pure Whole Milk	3	3.79	36.84
2 11361	2022-05-24	Kit Caesar Lite	3	8.49	36.84
3 12917	2020-01-02	Fruit Chews Superfruit Flavors	1	5.99	61.5
4 12917	2020-01-02	Vanilla dipped in chocolate Bars	3	5.99	61.5
5 12917	2020-01-02	Tuscan Herb Butter	4	5.49	61.5
6 12917	2020-01-02	Diet Orange Soda	2	7.79	61.5
7 15155	2022-12-26	Flavor Variety Instant Grits	4	5.79	56.22
8 15155	2022-12-26	Powder Power Dry Shampoo for All Hair Types	2	7.99	56.22

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Customer Insights

HEALTHY EATING

Hagrid's Harvest

CUSTOMER INSIGHTS

Select payment mode: credit_card

Number of orders per payment mode

Top 5 customers with most orders

Top 10 states with highest sales

Total Revenue by Month Number

City	State	Orderfrequency
1 Washington	District of Columbia	557
2 Houston	Texas	355
3 New York City	New York	348
4 El Paso	Texas	276
5 Atlanta	Georgia	257
6 Sacramento	California	227
7 Dallas	Texas	212
8 Los Angeles	California	187

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Customer Insights

HEALTHY EATING

Hagrid's Harvest

CUSTOMER INSIGHTS

Select payment mode: credit_card

Select customer name: Ginnifer Hestrop

- Order History for Customer
- Customer Location Order Frequency
- Customer Lifetime Value

Number of orders per payment mode

Top 5 customers with most orders

Top 10 states with highest sales

Total Revenue by Month Number

	CustomerID	FirstName	LastName	Email	TotalRevenue	TotalOrders	AvgRevenuePerOrder
1	9000	Thaxter	Watt	twattr@amazon.co.uk	462.27999449645996	5	92.45599899291992
2	5262	Tyne	Idill	tidill79@webmd.com	458.52000427246094	4	114.63000106811523
3	8623	Karly	Piken	kpikeinha@delicious.com	441.2400007247925	6	73.54000012079875
4	10992	Calypso	Vedenyapin	cvedenyapinj@biblegateway.com	440.6399917602539	5	88.12799835205078
5	8659	Toddie	Venable	tvenableisia@quantcast.com	414.01000213623047	6	69.00166702270508
6	7150	Danyette	Meecher	dmeecher45@oracle.com	403.12999725341797	6	67.18833287556966
7	2184	Wald	Pennazzi	wPennazzi53@yandex.ru	396.91999435424805	6	66.15333239237468
8	6432	Rene	Pearmine	rpearminebz@desdev.cn	391.29000091552734	5	78.25800018310547

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WICK149 THE PROJECT

Hagrid's Harvest

FRESHNESS, HARVEST, AND MAGIC

Reviews

- ReviewId
- Rating
- Description (O)
- CustomerID (FK)
- ProductID (FK)

Customer

- CustomerID
- FirstName
- LastName
- Email
- DOB
- Age
- AgeRange
- Gender
- Phone

Customer_Address

- AddressID
- CustomerID (FK)
- Apartment (O)
- StreetName
- City
- State
- PinCode

Products

- ProductID
- ProductName
- ProductPrice
- InStock
- SubCategoryID (FK)
- CategoryID (FK)

Sub_Category

- ID
- Name

Category

- ID
- Name

Order_Details

- ProductID (FK)
- OrderID (FK)
- Quantity

Orders

- OrderID
- OrderDate
- DayofWeek
- CustomerID (FK)

Payment

- PaymentID
- PaymentMode
- Amount
- OrderID (FK)

Checkout Relational Schema

Try your SQL query

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Try your own SQL queries



Hagrid's Harvest

Try your own SQL queries

Result

1	2	3
1		
2		
3		
4		
5		
6		
7		

Run query Clear text box

WICKT49 Inc Home



Hagrid's Harvest

FRESHNESS,
HARVEST,
AND
MAGIC

Marketing
Segmentation
Based Analysis

Inventory
& Customer Retention
Analysis

Time Series
Analysis



Checkout Star Schema Try your SQL query

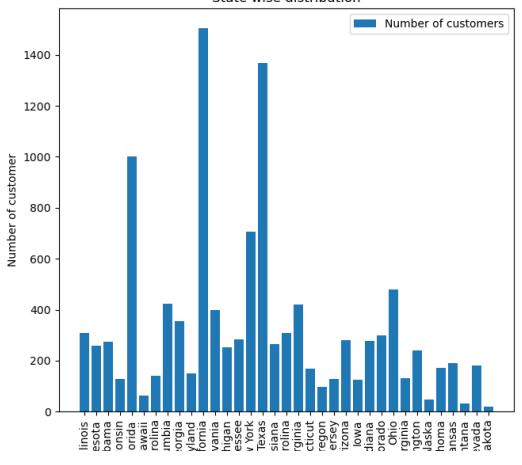
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Marketing Segmentation Based Analysis




State Wise Customers

State wise distribution



State	Number of customers
Illinois	~1500
Minnesota	~300
Iowa	~100
Missouri	~100
Indiana	~100
Michigan	~400
Wisconsin	~150
Ohio	~350
Kentucky	~150
North Carolina	~300
South Carolina	~250
West Virginia	~150
Virginia	~300
New Jersey	~100
Connecticut	~100
Rhode Island	~50
Massachusetts	~200
Vermont	~50
Maine	~50
Alaska	~50
Hawaii	~50
Montana	~50
Wyoming	~50
Colorado	~150
New Mexico	~50
Arizona	~150
Texas	~1350
Oklahoma	~300
Kansas	~150
Nebraska	~150
Louisiana	~150
Mississippi	~150
Georgia	~150
Florida	~150
North Dakota	~50

City Wise Customers in a state

Select State

Alabama

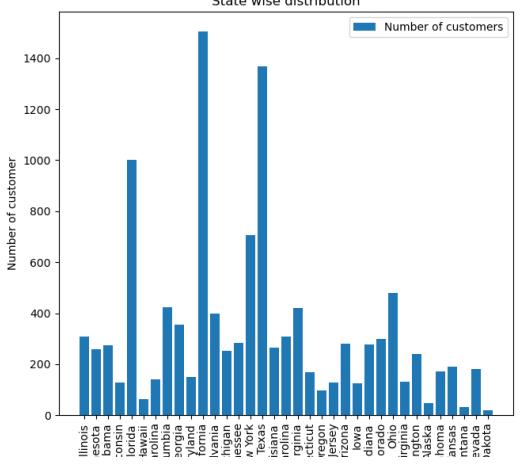
- Alabama
- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Florida

Marketing Segmentation Based Analysis




State Wise Customers

State wise distribution



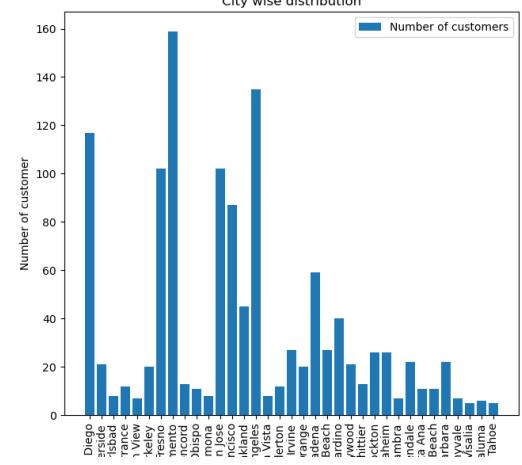
State	Number of customers
Illinois	~1500
Minnesota	~300
Iowa	~100
Missouri	~100
Indiana	~100
Michigan	~400
Wisconsin	~150
Ohio	~350
Kentucky	~150
North Carolina	~300
South Carolina	~250
West Virginia	~150
Virginia	~300
New Jersey	~100
Connecticut	~100
Rhode Island	~50
Massachusetts	~200
Vermont	~50
Maine	~50
Alaska	~50
Hawaii	~50
Montana	~50
Wyoming	~50
Colorado	~150
New Mexico	~50
Arizona	~150
Texas	~1350
Oklahoma	~300
Kansas	~150
Nebraska	~150
Louisiana	~150
Mississippi	~150
Georgia	~150
Florida	~150
North Dakota	~50

City Wise Customers in a state

Select State

California

City wise distribution



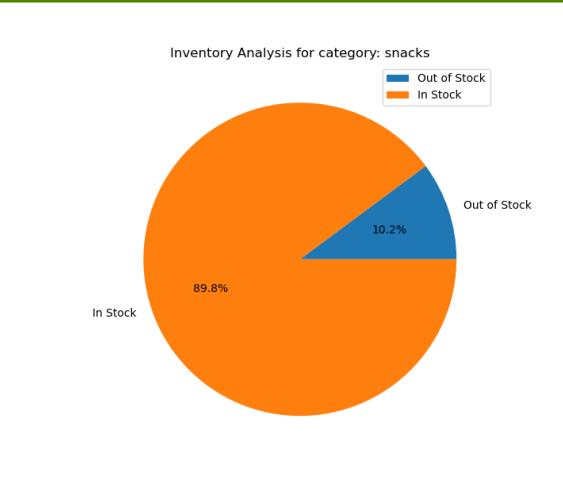
City	Number of customers
Diego	~120
Artesia	~20
Isidra	~10
Trance	~10
1 View	~10
Keyley	~20
Tesino	~100
Record	~10
Obispo	~10
mona	~10
n.jose	~10
n.santo	~10
Hesico	~90
Kibbles	~50
Vista	~10
Lerton	~20
Irvine	~30
Range	~20
La Beach	~25
Andino	~40
Riverwood	~20
hitter	~10
Cleton	~25
Hem	~10
miale	~20
A Ana	~15
Beach	~15
urbara	~20
yvale	~10
la	~5
Sluma	~5
Tahoe	~5

Inventory & Customer Retention Analysis



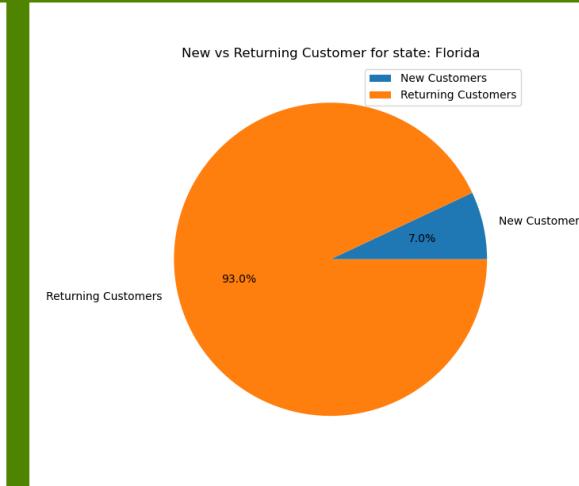

Inventory Analysis Select Category: snacks Customer Retention Analysis Select State: Florida

Inventory Analysis for category: snacks



Status	Percentage
In Stock	89.8%
Out of Stock	10.2%

New vs Returning Customer for state: Florida



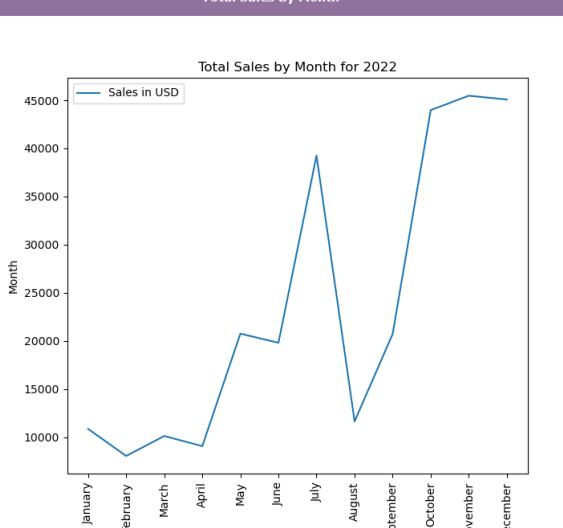
Customer Type	Percentage
New Customers	7.0%
Returning Customers	93.0%

Time Series Analysis




Select Year: 2022

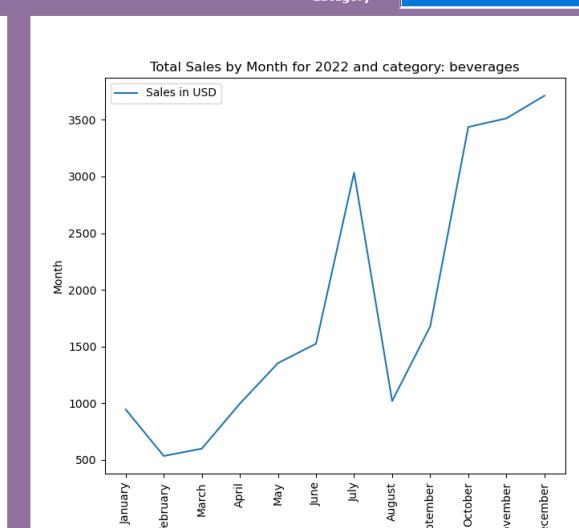
Total Sales By Month



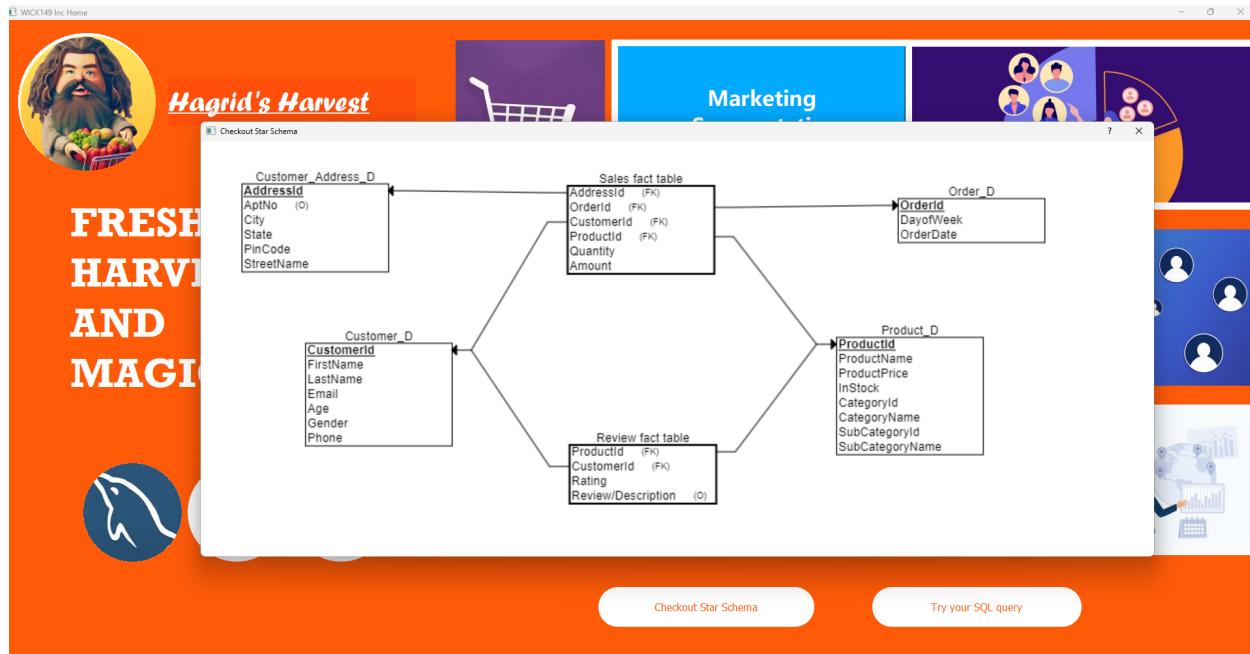
Month	Sales in USD
January	~10,000
February	~8,000
March	~10,000
April	~9,000
May	~21,000
June	~20,000
July	~40,000
August	~12,000
September	~20,000
October	~45,000
November	~47,000
December	~48,000

Total Sales By Month By Category

Select Category: beverages



Month	Sales in USD
January	~1,000
February	~500
March	~500
April	~1,000
May	~1,400
June	~1,500
July	~30,000
August	~1,000
September	~1,600
October	~35,000
November	~37,000
December	~38,000



The screenshot shows a window titled "Try your own SQL queries". On the left, there is a vertical banner for "Hagrid's Harvest" featuring a cartoon character with a beard and a shopping cart full of fruit. Below the banner is a button labeled "Try your own SQL queries".

In the center, there is a text input box containing the SQL query: "SELECT * FROM Product_D". Below the input box are two buttons: "Run query" and "Clear text box".

To the right, the word "Result" is displayed above a table. The table has a header row with columns: "ProductId", "ProductName", and "ProductPrice". The data rows are as follows:

ProductId	ProductName	ProductPrice
1	Chocolate Sandwich Cookie	5.49
2	All Seasons Salt	4.49
3	Robust Golden Unsweetened Oolong Tea	2.29
4	Smart Ones Classic Favorites Mini Rigatoni With Vodka Cream Sauce	8.49
5	Green Chile Anytime Sauce	5.29
6	Dry Nose Oil	6.99
7	Pure Coconut Water With Orange	7.49