Grocery Store Data (SQL Data Analysis)

Source: Kaggle

Grocery Data (Real Canadian Superstore Grocery Product Data)

Description:

This dataset provides a comprehensive collection of grocery product information from Real Canadian Superstore, a prominent supermarket chain in Canada. The dataset encompasses a wide range of grocery items, including fresh vegetables, fruits, packaged goods, and more.

Content:

The dataset contains essential product details, including:

- Product Name: The name or title of the grocery product.
- **Current Price**: The current price of the product.
- Previous Price: The previous price of the product (if applicable).
- **Price Per Each product**: The price per unit or each item.
- Category: The category or department to which the product belongs.
- **Product ID**: A unique identifier for each product.
- Product URL: A direct link to the product's webpage on the Real Canadian Superstore website.
- **Quantity**: The quantity or amount of the product.
- **Units**: The units of measurement for the product (e.g., ea, kg, lb).

Use Cases:

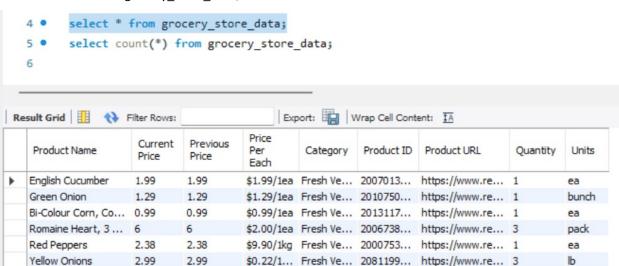
This dataset is a valuable resource for various data-driven applications, including:

- Price Comparison: Analyzing price variations between current and previous prices.
- Market Analysis: Studying customer purchasing patterns.
- Inventory Management: Optimizing inventory levels based on product popularity.
- Data Visualization: Creating visualizations to explore grocery product trends.

SQL Queries: -

Celery Stalks

select * from grocery_store_data;

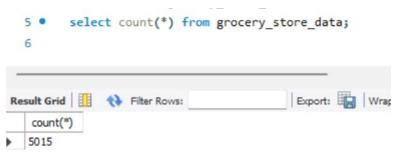


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select count (*) from grocery_store_data;

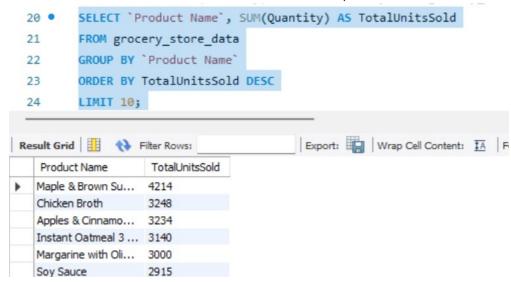
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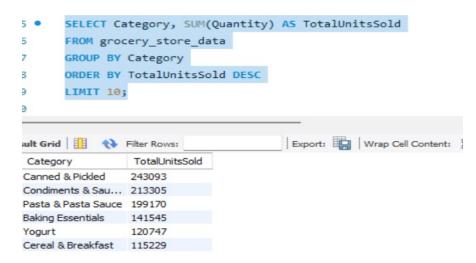
- select *from grocery_store_data where Category = 'Fresh Fruits';
- select count(*) from grocery store data where Category = 'Fresh Fruits';
- select * from grocery store data where Category= "Fresh Vegetables" or Category= "Rice";
- select *from grocery_store_data order by Quantity ASC;
- SELECT * FROM grocery store data WHERE `Product Name` LIKE 'B%';
- SELECT `Product ID`, `Product Name`, `Previous Price`, `Current Price`, (`Previous Price` `Current Price`) AS 'PriceDifference'
- FROM grocery store data;
- select `Product Name`, `Previous Price`, `Current Price` From grocery_store_data where `Previous Price` > `Current Price`;
- select count(`Product Name`), count(`Previous Price`), count(`Current Price`) From grocery_store_data where `Previous Price` > `Current Price`;
- select `Product Name`, `Quantity` FROM grocery_store_data WHERE `Quantity` > 100;

- select count(`Product Name`), count(`Quantity`) FROM grocery_store_data WHERE `Quantity` > 100;
- SELECT Units, COUNT(*) AS TotalProducts FROM grocery_store_data GROUP BY Units ORDER BY TotalProducts;
- SELECT `Product Name`, `Current Price`, Category FROM grocery_store_data WHERE `Product Name` LIKE '%C%';
- SELECT Category, COUNT(*) AS TotalProducts FROM grocery store data GROUP BY Category;
- SELECT Units, SUM(Quantity) AS TotalQuantity FROM grocery_store_data GROUP BY Units;
- SELECT `Product Name`, SUM(Quantity) AS TotalUnitsSold FROM grocery_store_data GROUP BY
 `Product Name` ORDER BY TotalUnitsSold DESC LIMIT 10;



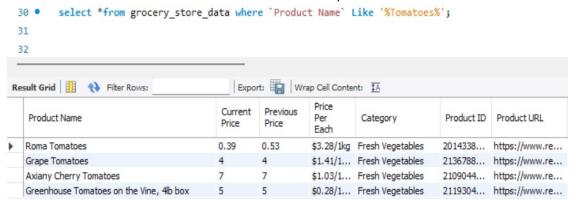
Here, Maple & Brown Sugar Flavor Instant oatmeal is the highest sold product.

 SELECT Category, SUM(Quantity) AS TotalUnitsSold FROM grocery_store_data GROUP BY Category ORDER BY TotalUnitsSold DESC LIMIT 10;

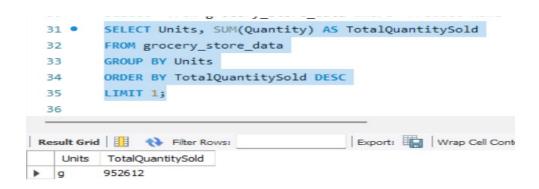


Total Units sold were highest in the Canned & Pickled category.

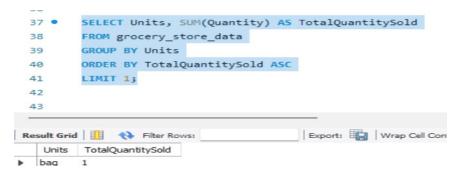
 select *from grocery_store_data where `Product Name` Like '%Tomatoes%'; (Gives a list of Product Names which have Tomatoes included in them.)



SELECT Units, SUM(Quantity) AS TotalQuantitySold FROM grocery_store_data GROUP BY Units
 ORDER BY TotalQuantitySold DESC LIMIT 1; (Gives max quantity of measurement based on Total Quantity sold)



SELECT Units, SUM(Quantity) AS TotalQuantitySoldFROM grocery_store_data
 GROUP BY Units ORDER BY TotalQuantitySold ASC LIMIT 1; (Gives least quantity of measurement based on Total Quantity sold)



Observations: -

- This Grocery store has various categories, and each category has its own set of products.
- Total Units sold were highest in the Canned & Pickled category.
- Here, Maple & Brown Sugar Flavor Instant oatmeal is the highest selling product.

Recommendations: -

- Explore new product categories to attract a wider customer base.
- Ensure ample stock for the high-selling Canned & Pickled category.
- Market the Maple & Brown Sugar Flavor Instant oatmeal for increased sales.
- Gather customer feedback to tailor offerings and improve satisfaction.