Super Store Sales Analysis

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Disclaimer: The information provided in this text is not factual and is for illustrative purposes only

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Report Objective

Period: 2015 - 2018

<u>Introduction</u>	This report analyzes sales performance across different regions, product categories, and periods to understand market trends, identify strengths and weaknesses, and support strategic decision-making.
<u>Conclusion</u>	The report includes key performance indicators (KPIs), customer behavior analysis, order distribution, and outlier detection — all of which significantly contributed to accurate data understanding and generating actionable insights.
Findings and Observations	One of the key findings was the reduction of skewness in sales distribution. Initially, the mean sales value was nearly five times greater than the median, indicating a strong right skew. After addressing outliers, the gap between the mean and median narrowed significantly, resulting in a more realistic and reliable interpretation of sales performance.

Team 1 Sales PROJECT





Super Store Sales Dashboard: (KPIs)



No of customers & Products



Average Order to ship time



Mean & Median

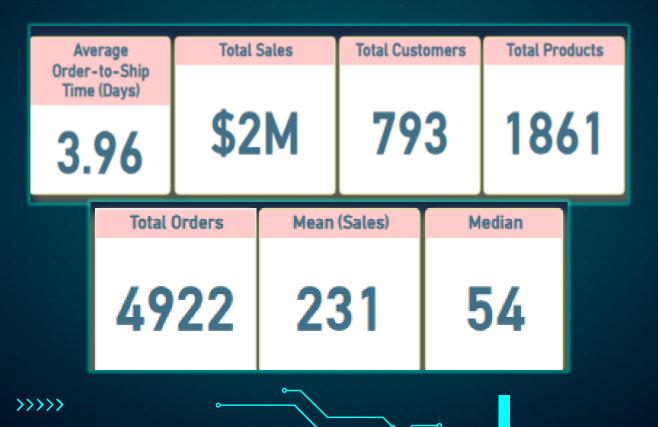


Total Orders & Sales



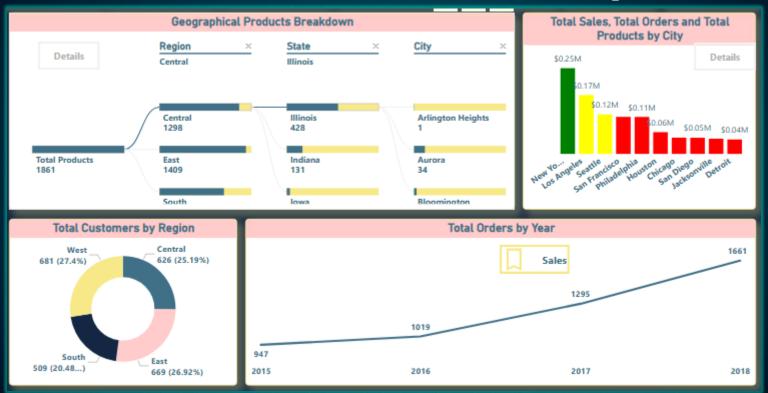


Super Store Sales Dashboard: (KPIs)





Data Relations in Sales Report









Data Relations in Sales Report





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Data Relations in Sales Report











Key Filters (Slicers) Applied in Report

Section

(treatment for the effect of outliers)

Region

Is Outlier

Category

Product Name

Ship Mode

State

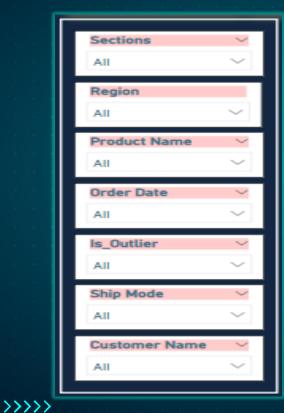
Order Date

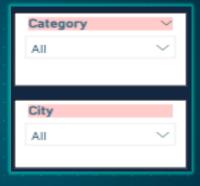
Customer Name





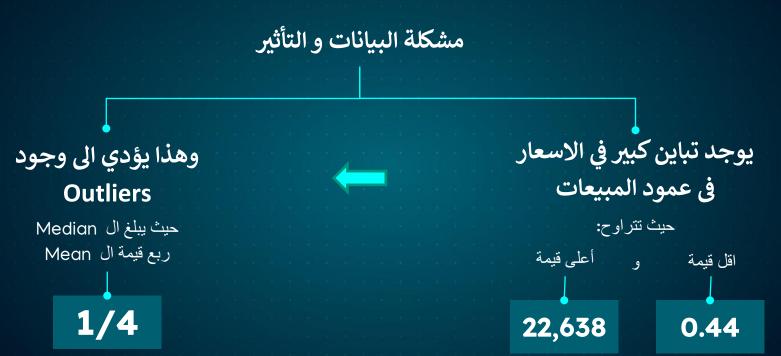
Key Filters (Slicers) Applied in Report





Sales Data Segmentation & Outlier Analysis

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Sales Data Segmentation & Outlier Analysis

معالجة الـ Outliers

تم تقسيم البيانات إلى قطاعات بناءً على:

الانحراف المعياري (STD)

القيم الشاذة Outliers مُوجودة في ال القطاعات 5, 6, 7, 8

النطاق الرباعي (IQR)

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تم تحدید 1000 أوردر بقیمة 1.45 ملیون دولار فی Outliers

(فوائد التقسيم إلى قطاعات)

بعد التقسيم تقاربت قيم ال Meanوال Median تحسين فهم البيانات وبالتالى قرارات أكثر دقة

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Sales Data Segmentation & Outlier Analysis

تحليل القطاعات الرئيسية

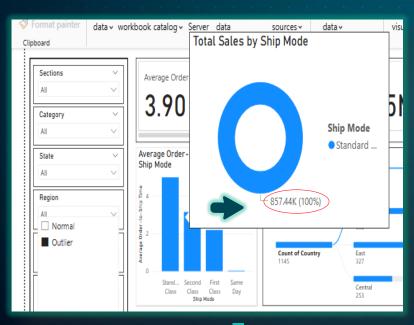
النسبة	إجمالي المبيعات	عدد الأوردرات	النطاق السعري	القطاع
4.2%	94K	3,231	0.44 – 50	1
4.3%	98K	1,183	50 – 100	2
23%	511K	654	500-1000	الأكبر

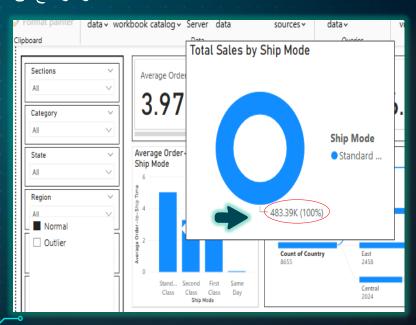
ملاحظة: الأوردر الواحد قد يحتوي على منتجات من قطاعات مختلفة.



Impact of Outliers on Sales Analysis

فى تحليل (Total Sales by Ship Mode): قيمة ال (Standard Ship Mode) مع ال Outliers = ضعف قيمتها فى حالة ال normal (بدون Outliers). كما هو موضح فى ال Screenshots



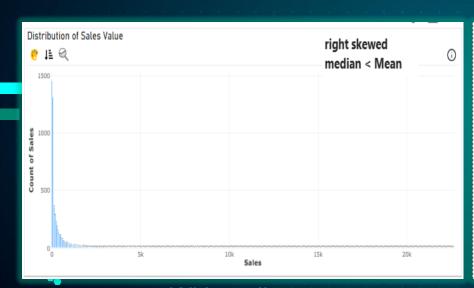


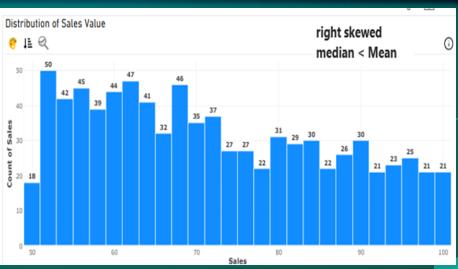


Impact of Outliers on Sales Analysis

تأثير الـ Outliers على توزيع ال (Right Skewed): الرسم البيانى (Histogram)يظهر توزيعًا مائلًا لليمين ((Right Skewed)

Median < Mean





With outliers

بعد التقسيم الي Sections



Outliers Effect on Median & Mean





Any Question???







TEAM 1



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Janet Essam



Fatma Samy



Hader Karam

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Rokia Ashraf



Muhammad Hassan



Nadia Amr

Thank you!

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Github Link

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