

# Project 1

## 1. How many items are sold every year?

Row Labels	Sum of Weekly_Sales
2010	2288886120
2011	2448200007
2012	2000132859
<b>Grand Total</b>	<b>6737218987</b>

## 2. What is the maximum customer price index in every quartet?

Row Labels	Max of Customer price index
1	225
2	226
3	227
4	227
<b>Grand Total</b>	<b>227</b>

## 3. Which is the maximum sale in every quarter?

Row Labels	Max of Weekly Sales
1	2623470
2	2565260
3	2358055
4	3818686
<b>Grand Total</b>	<b>3818686</b>

## 4. What is the correlation coefficient between fuel price and customer price index?

The correlation coefficient of **-0.17064** indicates a **weak negative correlation** between **Fuel Price** and **Customer Price Index**.

## 5. Which year has minimum and maximum sales?

Year with maximum sales: 2011

Year with minimum sales: 2012

**6. What is the standard deviation of Fuel price?**

The standard deviation of **Fuel Price** is **0.4590**, which represents the average deviation of fuel prices from their mean.

**7. Is there any relationship between Temperature and customer price index?**

There is a weak positive relationship between Temperature and Customer Price Index (CPI), with CPI showing a slight increase as temperature rises. However, the impact of temperature is minimal, suggesting it is not a major determinant of CPI.

Other factors, such as economic conditions and market trends, likely have a greater influence on CPI. While temperature may play a minor role in specific contexts, its overall contribution to CPI variability is limited.

**8. Is there any relationship between weekly sales and Temperature?**

There is a very weak negative relationship between Weekly Sales and Temperature, with sales slightly decreasing as temperature rises. However, the effect is negligible, indicating that temperature is not a significant driver of weekly sales.

The minimal impact suggests that other factors, such as economic conditions, holidays, or promotions, likely play a far more significant role in influencing weekly sales. While temperature may have a minor effect in specific cases, its overall contribution to sales variability is minimal.

**9. Is there any relationship between weekly sales and Unemployment rate?**

There is a very weak negative relationship between Weekly Sales and Unemployment Rate, indicating a slight decrease in sales as unemployment rises. However, the effect is minimal, suggesting that unemployment is not a major factor influencing weekly sales.

Other variables, such as consumer spending behavior, holidays, or economic trends, likely have a more significant impact on weekly sales. While unemployment may have a minor influence, its overall contribution to sales variability is limited.

10. Create a dashboard for all the aspects of Walmart\_store\_sales data?

