

HOMEWORK1

Peter Kamala - 20210818

INTRODUCTION

In this presentation I'll examine the **UK Quarterly Gas Consumption** dataset, containing UK gas consumption from the first quarter of 1960 to the fourth quarter of 1986. The dataset has four quarterly record of gas consumption in millions of therms for each year from 1960 to 1986 as seen in the table below

Show

9

 entries

Search:

UK Quarterly Gas Consumption by Year (1960-1986)

	Year ↕	Q1 ↕	Q2 ↕	Q3 ↕	Q4 ↕
1	1960	160.1	129.7	84.8	120.1
2	1961	160.1	124.9	84.8	116.9
3	1962	169.7	140.9	89.7	123.3
4	1963	187.3	144.1	92.9	120.1
5	1964	176.1	147.3	89.7	123.3
6	1965	185.7	155.3	99.3	131.3
7	1966	200.1	161.7	102.5	136.1
8	1967	204.9	176.1	112.1	140.9
9	1968	227.3	195.3	115.3	142.5

Showing 1 to 9 of 27 entries

Previous

1

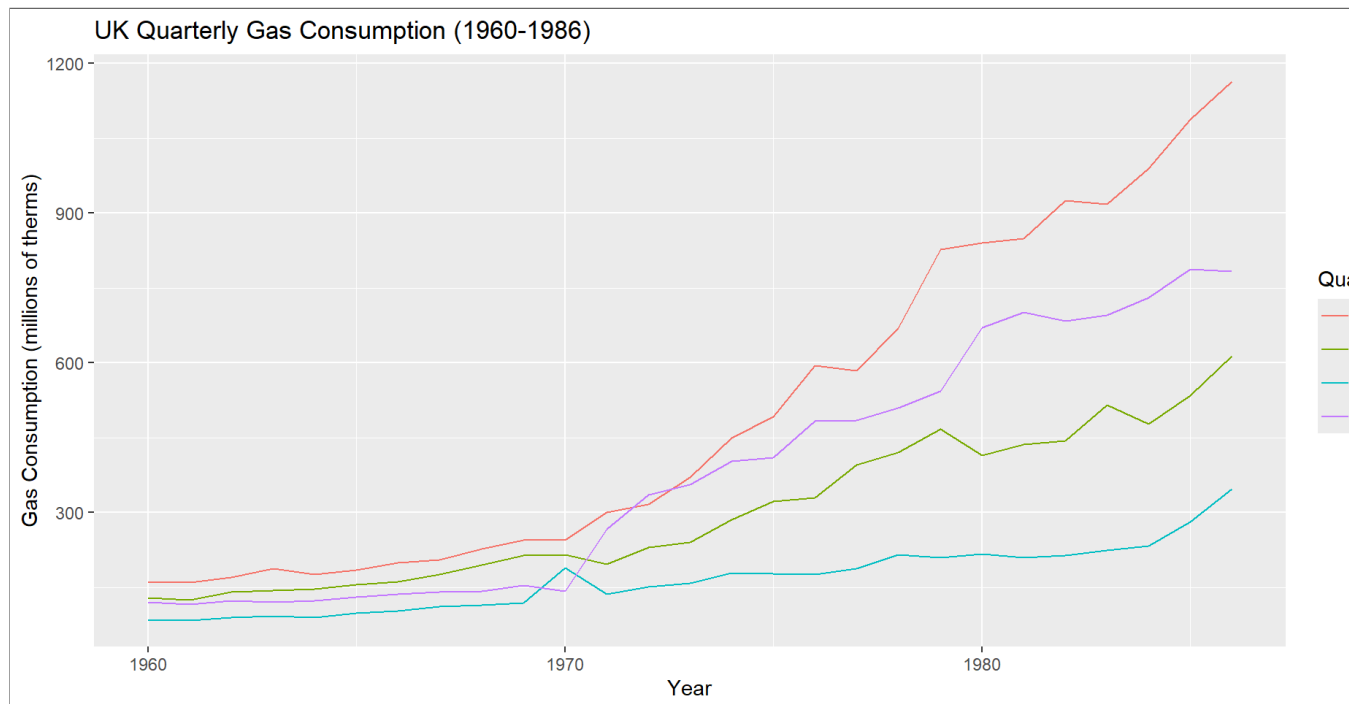
23Next

DESCRIPTIVE STATISTICS FOR THE QUARTERY GAS CONSUMPTION VARIABLE

Q1		Q2		Q3		Q4	
Min.	: 160.1	Min.	:124.9	Min.	: 84.8	Min.	:116.9
1st Qu.	: 202.5	1st Qu.	:168.9	1st Qu.	:107.3	1st Qu.	:138.5
Median	: 371.4	Median	:240.1	Median	:176.1	Median	:355.4
Mean	: 501.4	Mean	:301.1	Mean	:166.7	Mean	:381.3
3rd Qu.	: 834.1	3rd Qu.	:429.0	3rd Qu.	:212.1	3rd Qu.	:606.8
Max.	:1163.9	Max.	:613.1	Max.	:347.4	Max.	:787.6

As the statistics indicate, quarter 1 has the highest recorded gas consumption, while quarter 3 has the lowest. Could be due the cold months of quarter 1 and the opposite on quarter 3.

PLOTTING THE UK QUARTERLY GAS CONSUMPTION DATASET



The above plot visualizes UK quarterly gas consumption from **1960** to **1986**, relatively higher consumption is observed during quarter 1 across all the years, could be due to being a cold season, also relatively low consumption is observed on quarter 3, could be due to being a warm season.