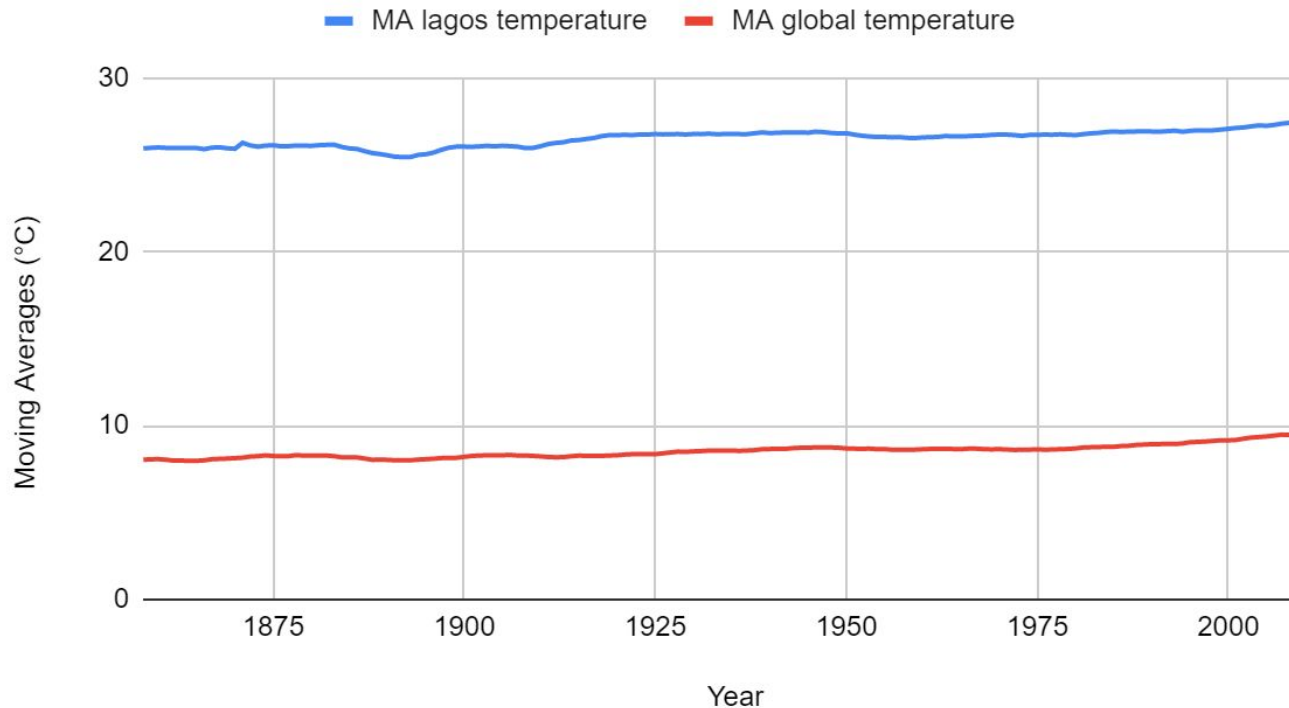


## Lagos and global temperature trends



### STEP BY STEP OUTLINE

- To access the necessary data, the following SQL queries were used;

1. SELECT \*

FROM city\_data

2. SELECT \*

FROM global\_data

- Google sheet was used to analyze the extracted data.
- To smooth out the data, ten year moving averages were calculated and stored in a separate column by using the average function to calculate the average sales of preceding 10 years.
- The ten year moving averages were carefully considered for visualising data in the line chart so that overall temperature trends can be viewed easily and inferences can be easily made from chart
- The chart was also labelled properly with the axes carefully identified to ensure that the reader would get a proper understanding of the data he or she is looking at.

## **OBSERVATIONS**

1. From the chart, Lagos city can be seen to be a lot hotter compared to the global average.
2. This trend can be found to be consistent through the years from the 1850s to the 2000s; there was not a single year in which Lagos was colder than the average global temperature.
3. Across the local (Lagos city) and global temperature, a steady trend can be seen. However, in the 2000s, the chart shows an increase in temperature level in Lagos and in the global average temperature. It can also be seen that there was a slight decrease in the global temperature around just before the 1900s and this is not the same for local temperature in Lagos which was almost steady around that time.
4. From the line chart, it can be inferred that Lagos is getting hotter and the world is getting hotter as well. The chart also shows a consistent trend over the years in both local city-Lagos and the global temperature recorded.