

# PROJECT 01

**Tools used** – Microsoft Excel,SQL

**Calculation**-For the given data I have decided to take the moving average for first 10 values of the data. To do so I first take the average of first 10 values in excel using =AVERAGE(A2:A11) and drag the formula down to the next cell.

**Key Considerations**- For visualization I make sure that the year and average temperature are aligned for both city and global dataset.

## STEPS IN ANALYSIS

STEP 1- Writing SQL queries to fetch the average temperature of my city and global average temperature.

Following are the queries I execute

```
SELECT city
```

```
FROM city_list
```

```
WHERE country='India';
```

```
SELECT year , avg_temp
```

```
FROM city_data
```

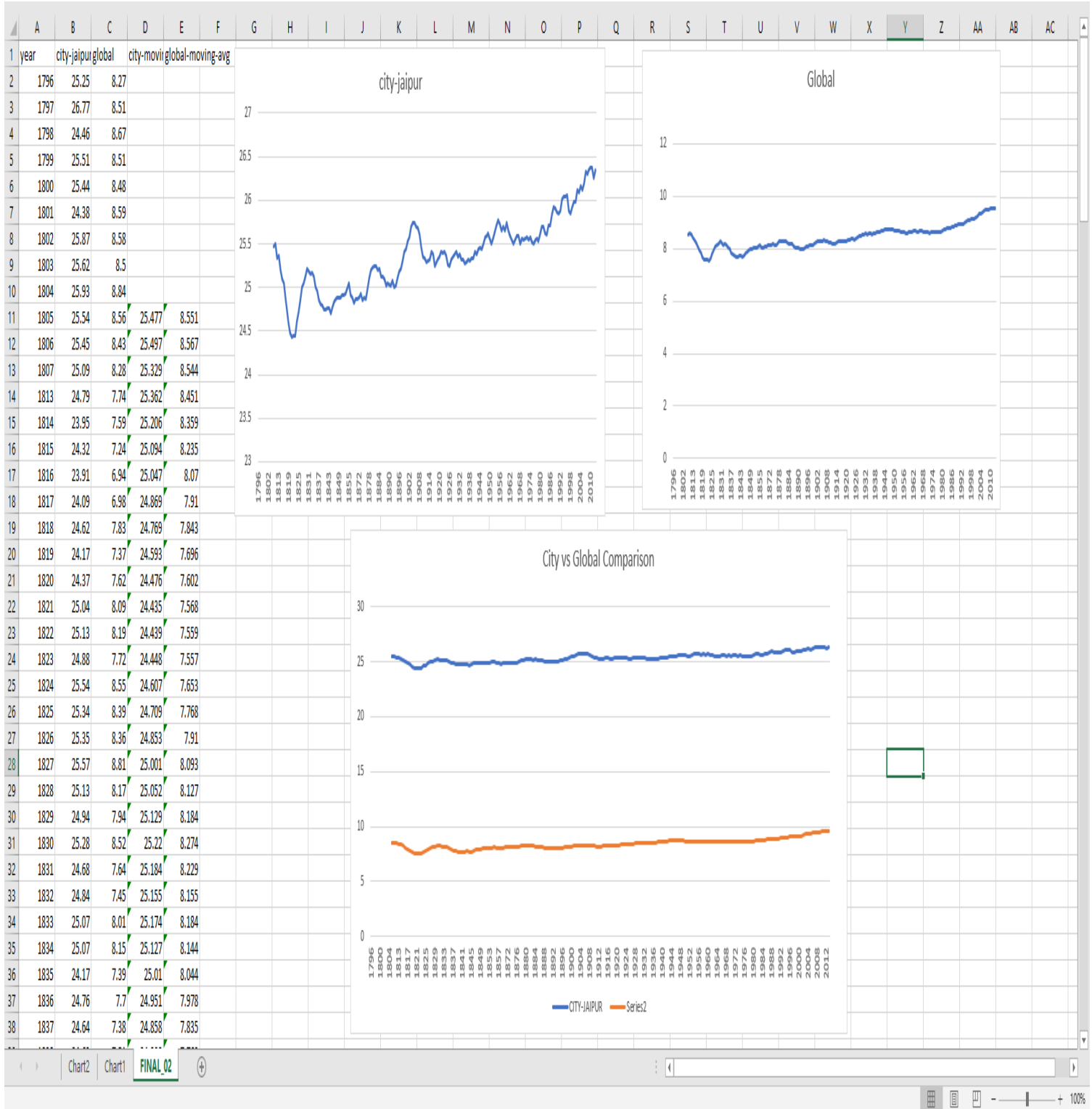
```
WHERE city='Jaipur';
```

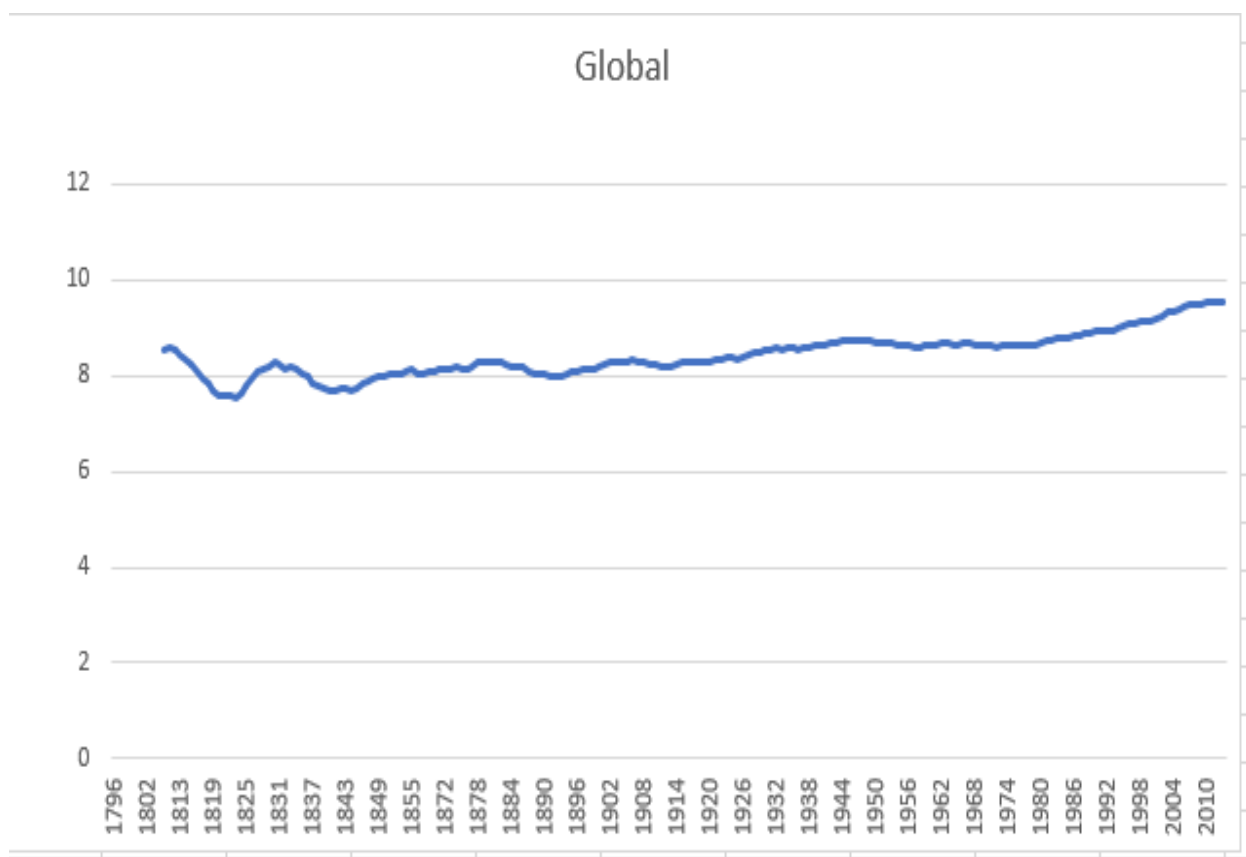
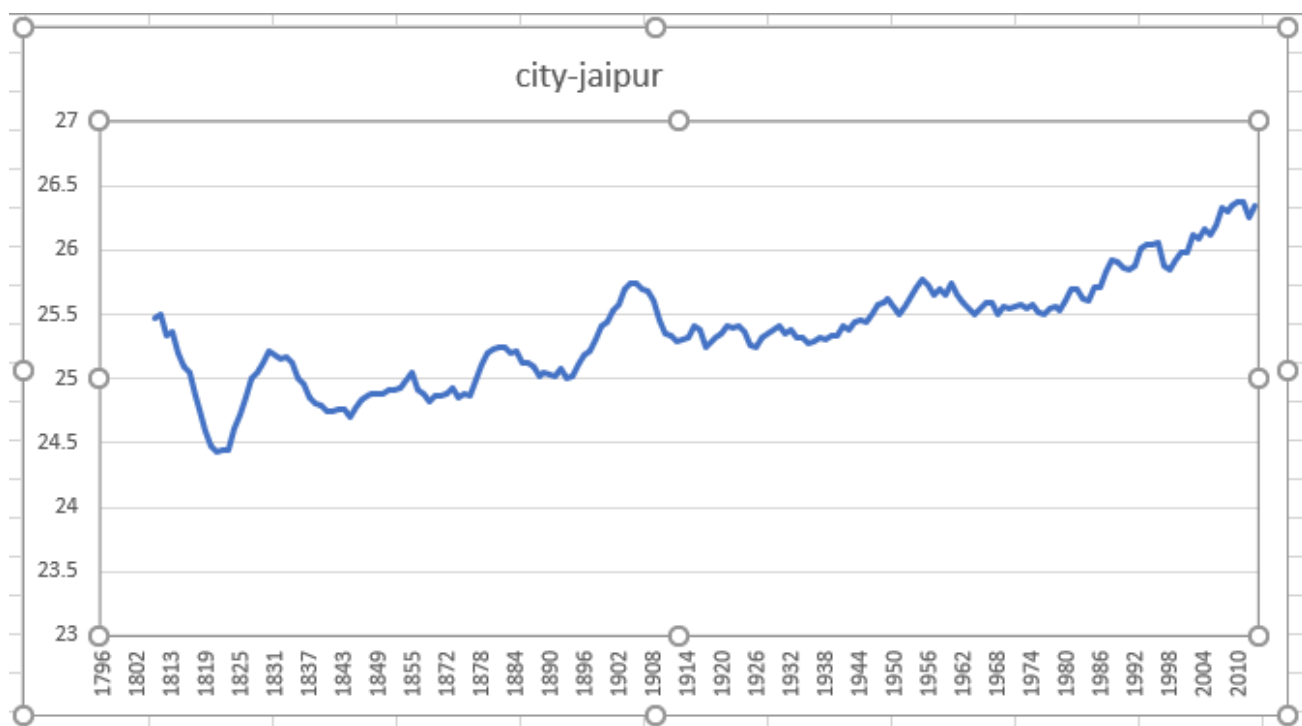
```
SELECT year,avg_temp
```

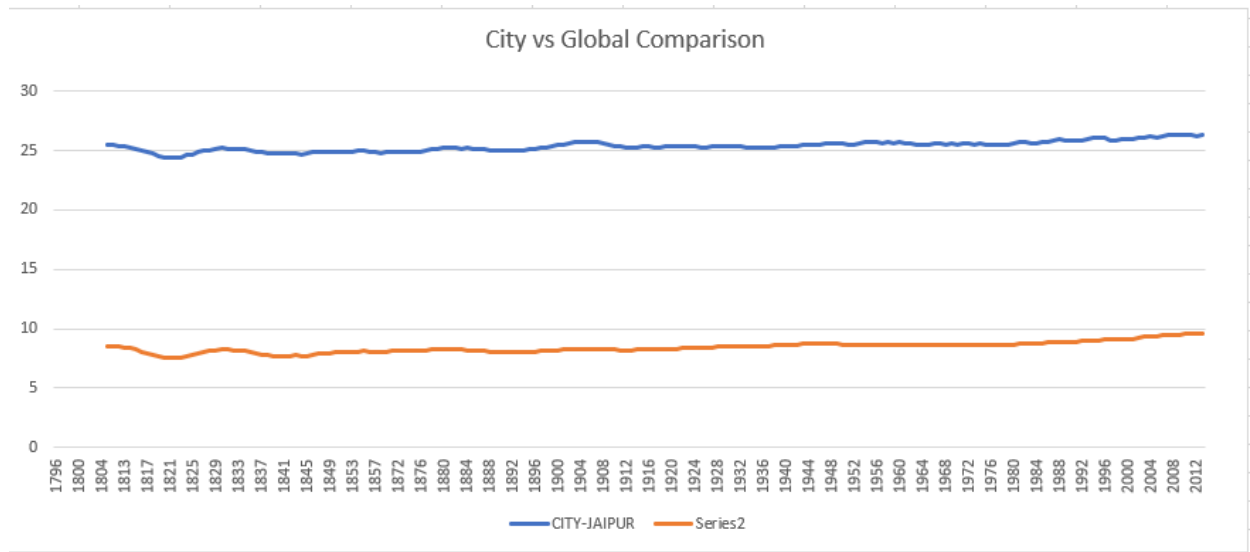
```
FROM global_data;
```

## STEP 2- Export TO CSV

## STEP 3- Calculating moving averages and then plotting







## OBSERVATIONS

- 1.The average temperature of globe has increased with time.**
- 2. Jaipur city has more average temperature then the global average temperature.**
- 3. The trend in the temperature is increasing with time and starting from 8.27 in 1796 to 9.61 in 2015.**
- 4. The difference between global temperature and Jaipur temperature is also consistent over time as we can se in the above figure**