EXPLORING WEATHER TRENDS

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UDACITY-Data Analyst Nanodegree

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TERM-1,PROJECT-1,Explore Weather Trends

PUNE.INDIA

OVERVIEW

In this project I have analysed local temperature of Pune,India with the global temperature data and compared.I had been provided entire database from Udacity portal from where I have to extract data and manipulate data and visualise it.

Goals

1. Extraction of data from database and export it to CSV file
2. Make a chart visualisation based on extracted data
3. Observation based on charts

Tools Used

1. SQL: It is used to extract data fromm Udacity's database
2. EXCEL: To analyse data and visualise it.

STEP 1: Extraction of data from the Udacity's database

1. To see which cities are available for "India" in the given dataset:

   ```
   SELECT * FROM city_list WHERE COUNTRY LIKE 'INDIA'
   ```

2. I can make a relevant dataset by joing the two tables.But I found that both the Schema contains both city_data and global_data contains same column 'avg_temp'.So I have change the column name of both the table from 'avg_temp' of global_data to 'GAT' and from 'avg_temp' of city_data to 'CAT'.In order to have a distinct columns.

   ```
   ALTER TABLE city_data RENAME COLUMN avg_temp to CAT;

   CITY AVERAGE TEMPREATURE(CAT)

   ALTER TABLE global_data RENAME COLUMN avg_temp to GAT;

   GLOBAL AVERAGE TEMPREATURE(GAT)
   ```

3. Now I have written code in order to join the two tables:

   ```
   SELECT global_data.year,global_data.GAT,city_data.CAT
          FROM global_data   JOIN city_data    --join tables
          ON global_data.year = city_data.year  --joining refrences
          WHERE city LIKE 'Pune';
   ```

After evaluating the query in workspace now the file is downloadable in

CSV format as results.csv

STEP 2: ANALYSING FILE IN EXCEL SHEET

1. After evaluating file in CSV it comes to analysing