Experiment no:01

Aim: Case study on building Data Warehouse/ Data Mart.

Software used: Any online drawing tool.

Theory:

1. Detailed Problem Statement

   Climate Studies have become more important over the last years mainly
   due to constantly changing climate. Because of this, a climatic data
   warehouse was proposed. Different type of data is collected all over India.
   This data warehouse is useful to analyse and extract data that is required
   in climate studies.

2. Analysis to be done
   This analysis will give answers to many questions:
   - Hottest City
   - Coldest City
   - City with most rainfall
   - City with less rainfall and many more.

3. How the above analysis improves the business i.e. above problem
   definition

   Due to analysis we came to know the weather condition is at any particular
   region , which will help businesses to grow more and also helps to monitor
   them

4. Design Information Package Diagram

Area	Area_key	City	State	Country		
Index	Index_key	Uv_index	Heat_index	Humidity	Pressure	Windspeed
Time	Time_key	Date	Month	Quarter	Year	
Facts	Area_key	Time_key	Index_key	temp		

5. Details of Dimension Table

Area Dimension	Area_key	City	State	Country		
Index Dimension	Index_key	Uv_index	Heat_index	Humidity	Pressure	Windspeed
Time Dimension	Time_key	Date	Month	Quarter	Year	

6. Details of Fact Table

Facts:

Fact_Table
Area_key
Time_key
Index_key
temp

7. Draw and attach Star Schema
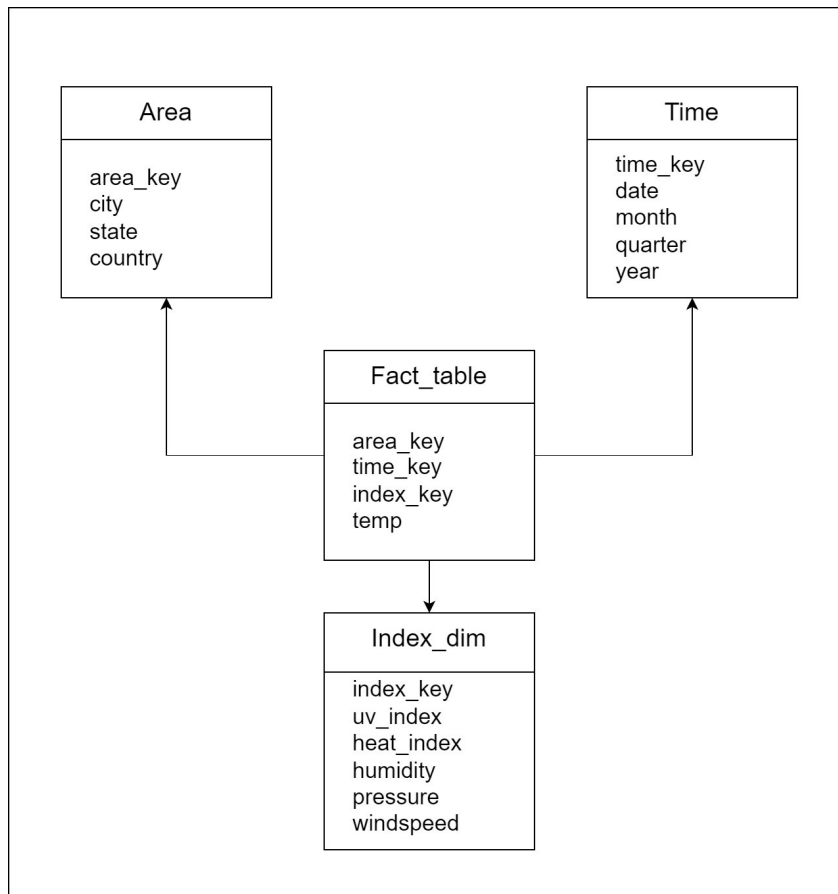
Conclusion: The following model help us to analyze the data related to sales that which sales person sells how many products which product has higher demand and how much sales we have done from particular area in what time.

DATE: 28/9/21

SIGN AND REMARK:

R1 (3 Marks)	R2 (3 Marks)	R (3 Marks)	R4 (3 Mark)	R5 (3 Mark)	Total (15 Marks)	Signature