

Aim:Implementation of all dimension tables based on experiment 1 Case Study

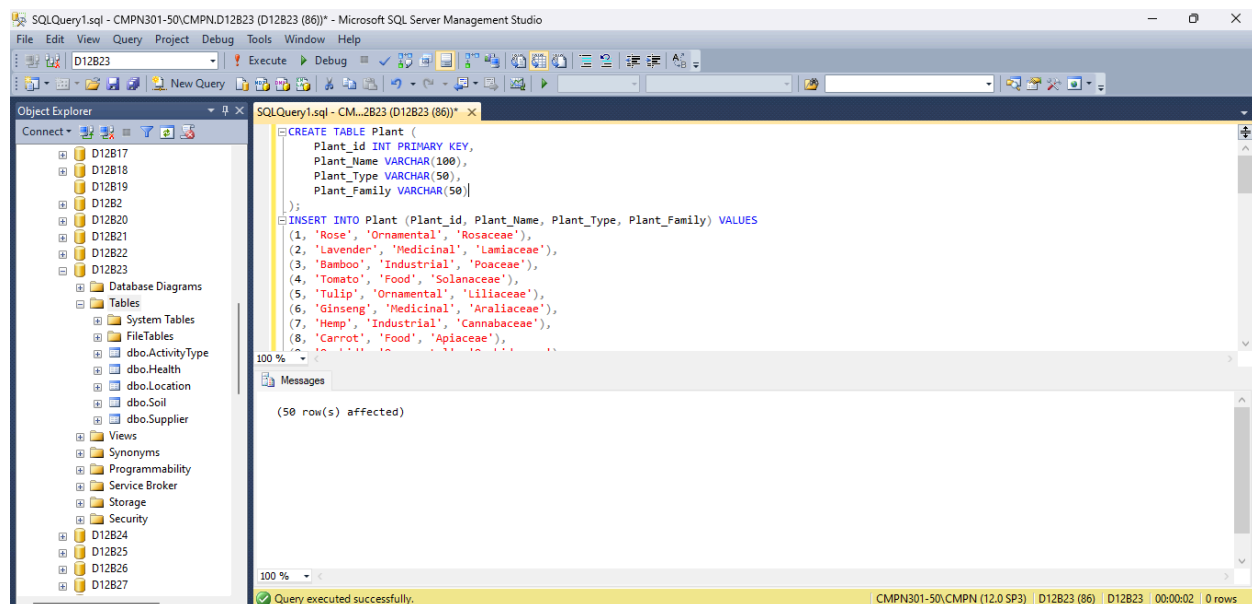
Theory:

The implementation of dimension tables for the data warehouse involves structuring tables based on the key dimensions identified in Experiment 1 of the Case Study. These dimension tables will include:

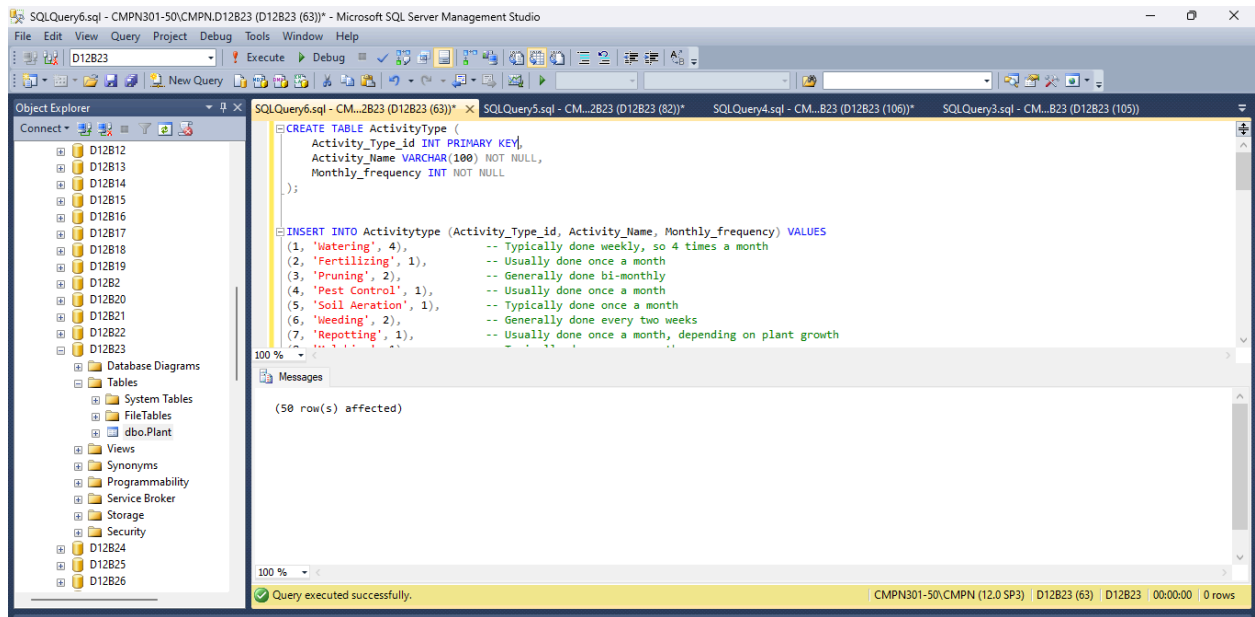
1. **Plant Dimension:** Captures detailed information about different plant species and varieties.
2. **Activity Type Dimension:** Records various types of activities performed, such as watering, fertilizing, and pruning.
3. **Health Dimension:** Tracks metrics related to plant health, including growth stages, disease indicators, and overall condition.
4. **Time Dimension:** Provides temporal context for the data, including dates, seasons, and time intervals.
5. **Soil Dimension:** Includes data on soil conditions such as pH levels, type, and moisture levels.
6. **TaskImpact(Fact Table):** Includes primary keys of all the dimensions with light exposure,temp and humidity as facts.

Screenshots:

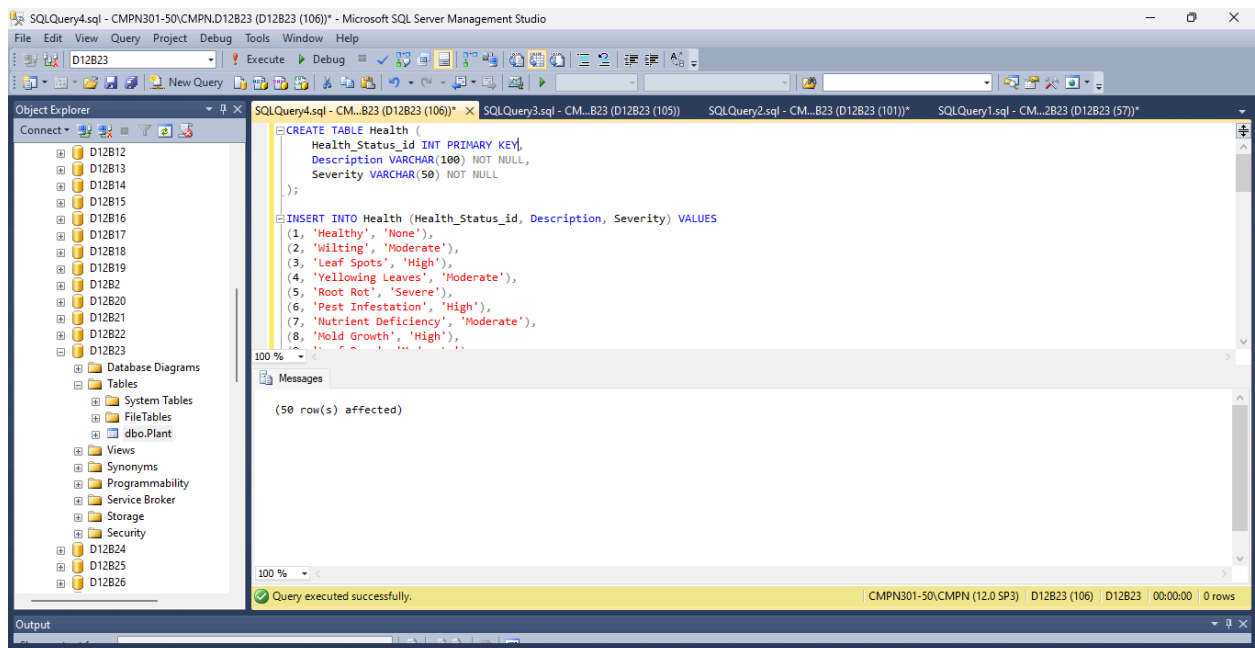
1.Plant:



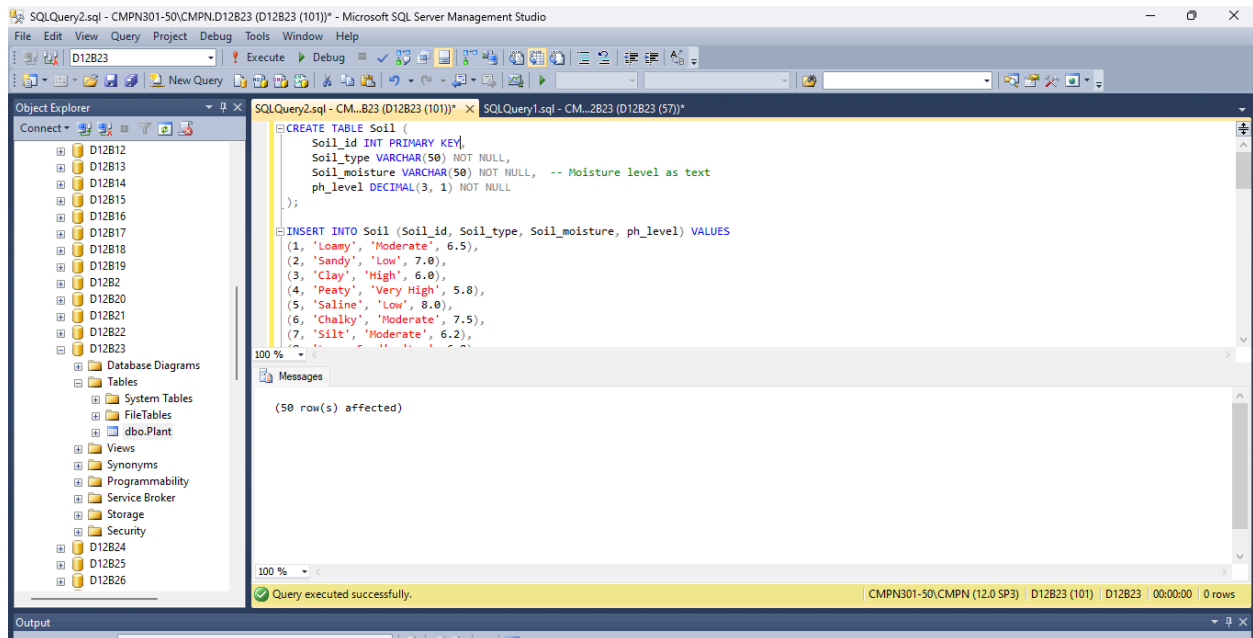
2. Activity Type:



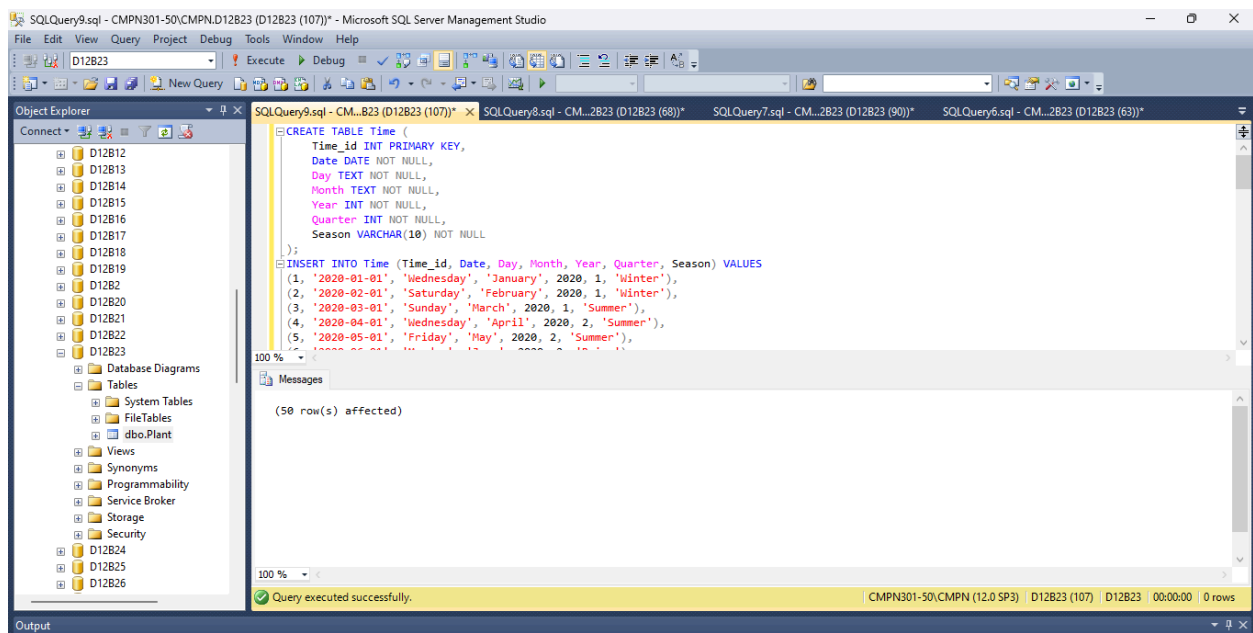
3. Health:



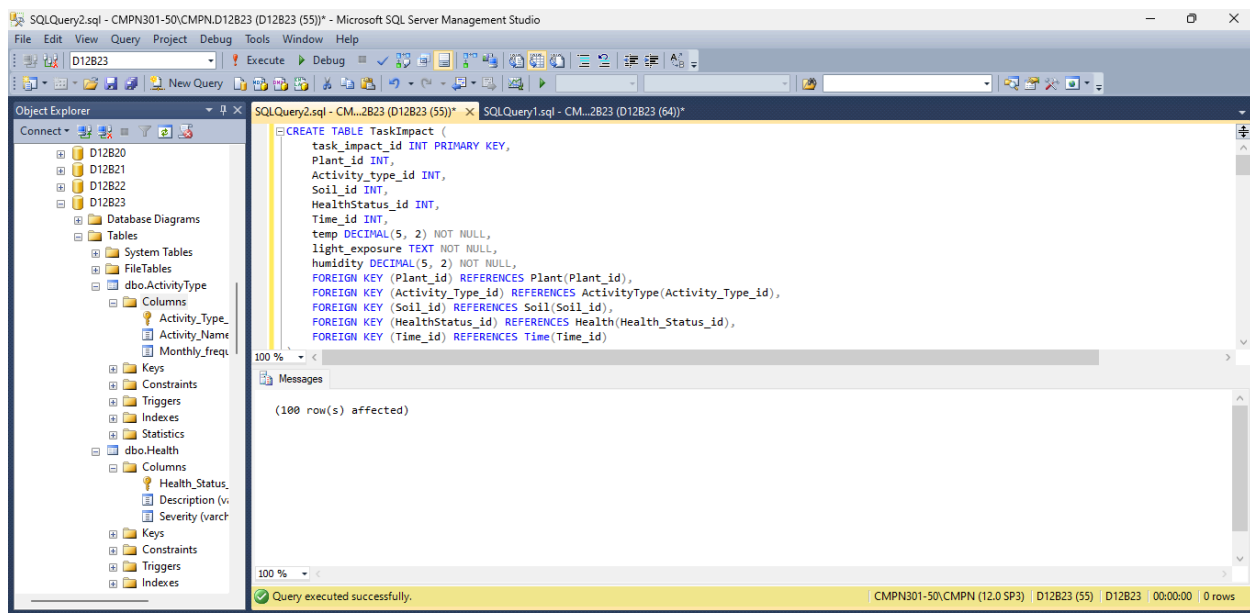
4. Soil:



5. Time:



6.TaskImpact:



Conclusion:

The implementation of dimension tables based on Experiment 1 of the Case Study successfully establishes a comprehensive framework for managing and analyzing data within the Garden Management System. By integrating detailed attributes for each dimension—plant, activity type, plant health, soil, and time—the data warehouse is equipped to provide valuable insights into the relationships between various factors and their impact on plant health. This structured approach enables more accurate tracking of plant activities, better understanding of soil and health conditions, and effective temporal analysis.