Week 1: Day 04

1. Make a note of which are the Dimension tables and which are the Fact tables. Also write a one-line definition about Dimension and Fact tables in a word document.

Ans.:

**Fact Table:**

1. Fact table is a central table in a data model that contains the measurable, quantitative data for analysis.
2. These tables usually include foreign keys that reference dimension tables, enabling detailed analysis through slicing and dicing the data.
3. Here in assignment, TotalOrders table, which contains measurable metrics (FirmOrders, ShippedQty) and foreign keys (CustomerID, PlantID).

**Dimension Tables:**

1. Dimension table is a table that contains descriptive attributes (dimensions) that are used to categorize, filter, and label data in a data model.
2. Here in this assignment,

Plant table: Contains descriptive attributes about plants (PlantID, PlantName, Address, City, State).

Customers table: Contains descriptive attributes about customers (CustomerID, CompanyName, FirstName, LastName, FullName, DOB, City, State).

1. Also make a note of type of relationships that you have made while creating a start schema, for eg. one to many, many to many, one to one.

Ans.:S

1. TotalOrders.CustomerID to Customers.CustomerID (One-to-Many).
2. TotalOrders.PlantID to Plant.PlantID (One-to-Many).