# Day 04

Task 4

1. **Fact Table**

* A **fact table** stores **quantitative data** (measurable facts) about a business process.
* It usually contains **numerical values** (called **measures** or **facts**) such as **sales, profit, quantity, cost, revenue**, etc.
* It also includes **foreign keys** that link to dimension tables

For this assignment: Fact Table is Total Orders

1. **Dimension Table**

* A **dimension table** stores **descriptive information** (attributes) related to the data in the fact table.
* These are used to **filter, group, and label** the facts for analysis.
* Contains **text or categorical data** like names, categories, dates, locations, etc.

For this assignment: Dimension Tables include Customers and Plant.

Relationship type in Star schema:

|  |  |  |
| --- | --- | --- |
| Relationship | Type | Direction |
| Customers [Customer ID] → Total Orders [Customer ID] | One to Many | Single Direction |
| Plant [Plant ID] → Total Orders [Plant ID] | One to Many | Single Direction |