**Fact Tables**

1. Fact\_Sales

* **Type**: Transaction fact table
* **Measures**:
  + item\_quantity (additive)
  + sales\_amount (additive)
* **Granularity**: captures the quantity and dollar amount for each item sold together
* **Dimensions**:
  + Date (date\_id)
  + Customer (cust\_id)
  + Order Type (order\_type\_id)

2. Fact\_Staff\_Cost

* **Type**: Transactional fact table
* **Measures**:
  + worked\_hours (additive)
  + sal\_per\_hour (non-additive)
  + cost (additive)
* **Granularity**: records each work session’s hours and resulting labor cost for every staff–shift occurrence.
* **Dimensions**:
  + Staff (staff\_id)
  + Shift (shift\_id)
  + Date (date\_id)

3. Fact\_Recipe

* **Type**: Transactional fact table
* **Measures**:
  + item\_price (additive)
  + total\_cost (additive)
  + profit (additive)
* **Granularity**: logs the cost and profit contribution of each ingredient used in a given recipe.
* **Dimensions**:
  + Recipe (recipe\_id)
  + Item (item\_id)

4. Fact\_Customer\_Visits\_Monthly

* **Type**: Periodic snapshot fact table
* **Measures**:
  + visit\_count (semi-additive)
  + total\_spent (semi-additive)
* **Granularity**: provides a monthly snapshot of how many times each customer visited and how much they spent.
* **Dimensions**:
  + Customer (customer\_id)
  + Time (month\_name, year)

**Dimension Tables**

1. Recipe\_Dim

* **Type**: Denormalized

2. Item\_Dim

* **Type**: Slowly Changing (type 1)

3. Order\_Type\_Dim

* **Type**: Slowly Changing (type 1)

4. Staff\_Dim

* **Type**: Slowly Changing (type 2)

5. Shift\_Dim

* **Type**: Shrunken

6. Dim\_Date

* **Type**: Conformed, Role Playing dimension

7. Dim\_Customer

* **Type**: Conformed, Slowly Changing (type 2)