**2. Dimensional Model**

**Business Process**: Sales Transactions

**Business Questions**

1. What are the trends that are relative to sales for each branch?
2. How does Dining options and payment methods affect sales?
3. What are the most ordered menu items at each branch?
4. How can Fufu republic effectively optimize stock levels using the existing sales trends?
5. How does the Customer types affect the sales trends and choice of order\_items paid for using a payment method for each branch?

* **Fact Table**: Sales\_Fact
  + Grain: Each row represents a single order item in a particular order.
  + Measures: Total Sales (Quantity \* Unit\_Price), Quantity\_Sold

**Schema**

* **Sales\_Fact**
  + Fact\_ID (Primary Key)
  + Date\_ID (Foreign Key)
  + Branch\_ID (Foreign Key)
  + Customer\_ID (Foreign Key)
  + Menu\_Item\_ID (Foreign Key)
  + Payment\_Method\_ID (Foreign Key)
  + Dining\_Option\_ID (Foreign Key)
  + Total\_Sales
  + Quantity\_Sold
* **Dimensions**:
  + **Menu Item Dimension**:
* Attributes: Menu\_Item\_ID, Menu\_Item\_Name, Category, Price
  + **Time Dimension**:
* Attributes: Date\_ID, Date, Month, Quarter, Year, Weekday
  + **Branch Dimension**:
* Attributes: Branch\_ID, Branch\_Name, Branch\_Address, City, State, Zip\_Code
  + **Payment Method Dimension**:
* Attributes: Payment\_Method\_ID, Payment\_Type
  + **Customer Dimension**:
* Attributes: Customer\_ID, Customer\_Name, Phone\_Number, Email, Customer\_Type
  + **Dining Option Dimension**:
* Attributes: Dining\_Option\_ID, Dining Option (e.g., Dine-In, Take-Out, Online)