

#### Dimensions & Facts (Measures)



### Fact & Dimension tables

- Data models generally contain two types of tables:
  - Facts -> data
  - Dimensions -> Lookup
  - ☐ <u>Fact tables</u> contain **numerical** values or metrics used for summarization (sales, orders, transactions, salary, creditAmount, DebitAmount etc.)
  - □ <u>Dimension tables</u> contain **descriptive** attributes used for filtering or grouping (products, customers, dates, stores, etc.)





## Example

date 🔻	product_id ✓	quantity -
1/1/1997	869	5
1/1/1997	1472	3
1/1/1997	76	4
1/1/1997	320	3
1/1/1997	4	4
1/1/1997	952	4
1/1/1997	1222	4
1/1/1997	517	4
1/1/1997	1359	4
1/1/1997	357	4
1/1/1997	1426	5
1/1/1997	190	4
1/1/1997	367	4
1/1/1997	250	5
1/1/1997	600	4
1/1/1997	702	5



#### **Calendar Lookup table**



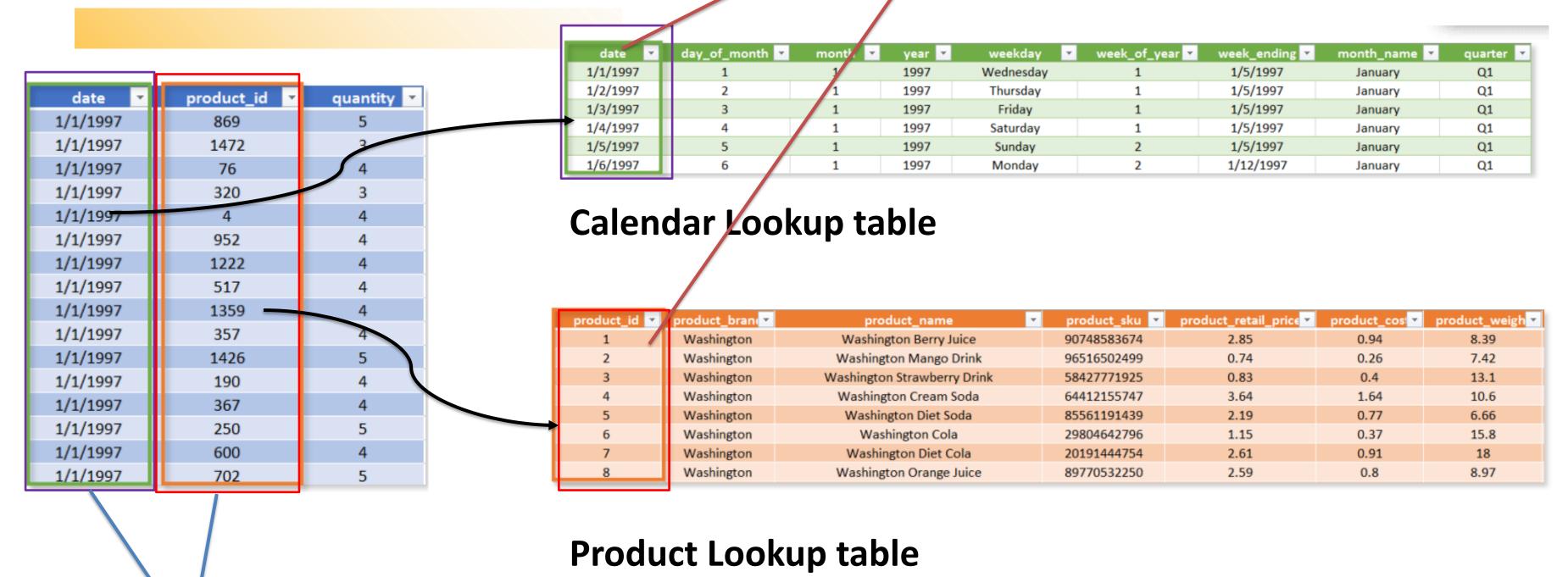
**Fact Table** 

**Product Lookup table** 





# Primary Keys & Foreign Keys



**Foreign Keys** 

