



Multidimensional Data and Warehouse Schemas

- Data in warehouses can usually be divided into
 - **Fact tables**, which are large
 - E.g *sales(item_id, store_id, customer_id, date, number, price)*
 - **Dimension tables**, which are relatively small
 - Store extra information about stores, items, etc
- Attributes of fact tables can be usually viewed as
 - **Measure attributes**
 - measure some value, and can be aggregated upon
 - e.g., the attributes *number* or *price* of the *sales* relation
 - **Dimension attributes**
 - dimensions on which measure attributes are viewed
 - e.g., attributes *item_id*, *color*, and *size* of the *sales* relation
 - Usually small ids that are foreign keys to dimension tables