

# Database Normalization

- First Normal Form - 1NF
  1. Order of the rows does not matter
  2. Data in a column should not have mixed types
  3. The table must have a primary key
  4. Data in a column must have a single value
- Second Normal Form (2NF)

Each non-key attribute must be dependent on the entire primary key
- Third Normal Form (3NF)

Each non-key attribute must depend on the key, the whole key, and nothing by the key
- Boyce-Codd Normal Form (BCNF)

Each attribute must depend on the key, the whole key, and nothing by the key
- Fourth Normal Form (4NF)

The only multivalued dependency allowed in a table are multivalued dependencies on the key