1. A person may have multiple magazine subscriptions. A magazine has multiple subscribers. For each subscription, it is important to track the date and amount of each payment as well as the current expiration date. [1]
2. An undirected graph consists of a set of vertices and a set of edges. Edges connect pairs of vertices. [1]
3. Consider a car ownership system. Each car has an owner. Every owner can own multiple cars. An owner could be a person or a company. A person can work for multiple companies and a company can hire multiple persons. Each owner has a name and each car has a chassis number, model, make, and license number. Every person has a CNIC number and birth date and every company has an NTN.
4. Consider a graphical document editor that supports grouping. A document consists of several sheets. Each sheet contains drawing objects including text, geometrical objects, and groups. A group is simply a set of drawing objects, possibly including other groups. A group must contain at least two drawing objects. A drawing object can be a direct member of at most one group. Geometrical objects include circles, ellipses, rectangles, lines, and squares. [1]

**Reference**

1. Object-Oriented Modeling and Design with UML, Michael R. Blaha and James R. Rumbaugh, 2nd Edition, Pearson, 2005.