# ENTITY RELATIONSHIP DIAGRAM:

The most important consideration in designing the database is how the information will be used. The various applications and procedures that will use the database introduce the requirements upon the structure of data.

Relational database representation of data is defined as the collection of tables. Each table has one or more columns. The first step in creating a database is designing it. First plan is how much tables we require and what data they will contain. It also determines how the tables are related. That is a very important step and deserves careful considerations. It should determine what things we want to store i.e., (entities) and how these things are related i.e., (relationship).

**Symbols used in E.R. Diagram:**

1. **Represents entity set.**

2. **Represents attributes.**

3. **Represents relationship set.**

1. **Links attributes to entity sets and entity sets to relationship sets. (One to One Relationship)**
2. **Links attributes to entity sets and entity sets to relationship sets. (One to Many Relationship)**

1. **Links attributes to entity sets and entity sets to relationship sets. (Many to Many Relationship)**