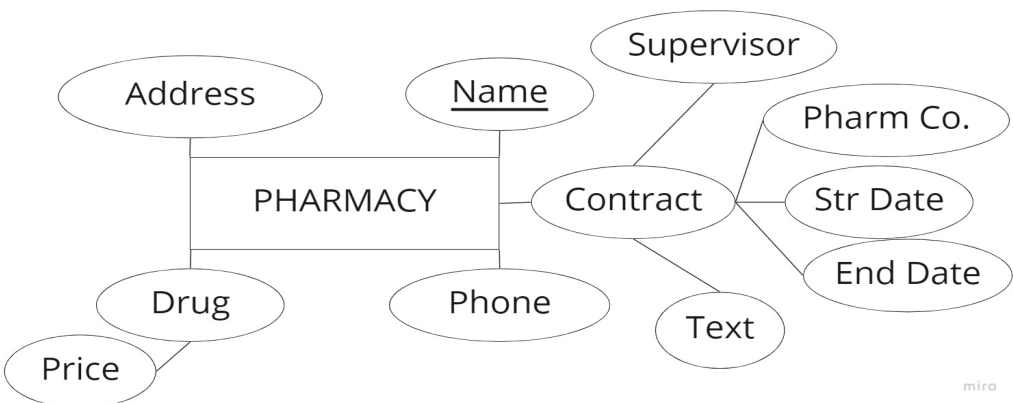
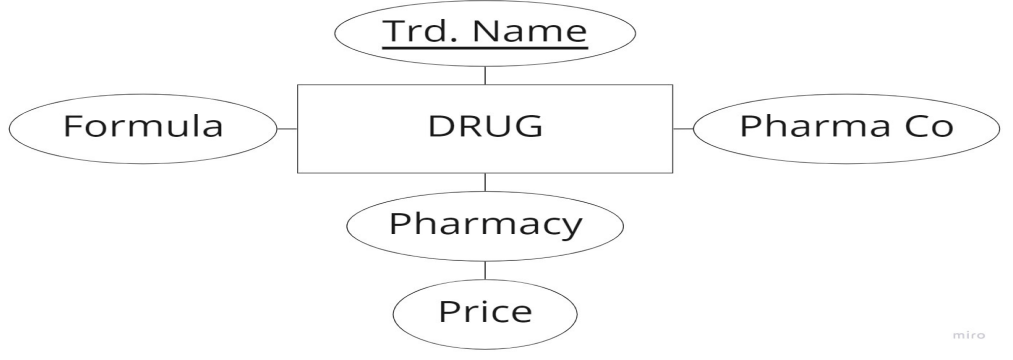
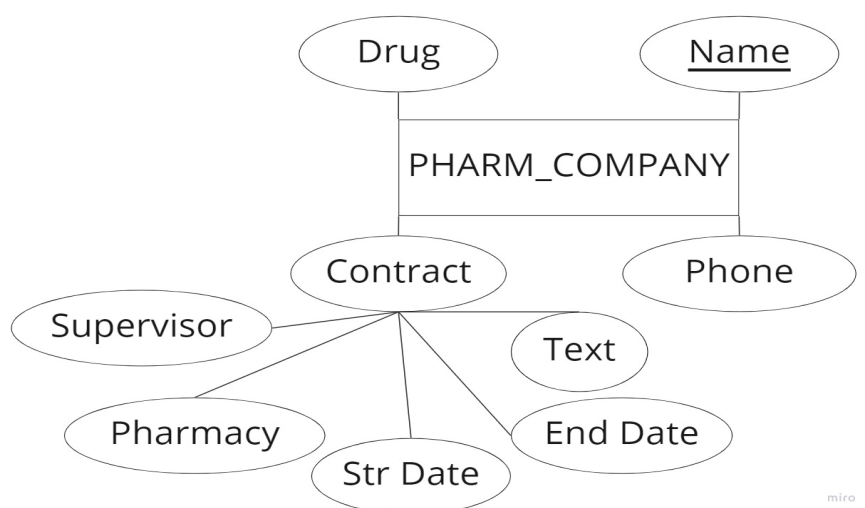


**Part 1 - Define the following terms:**

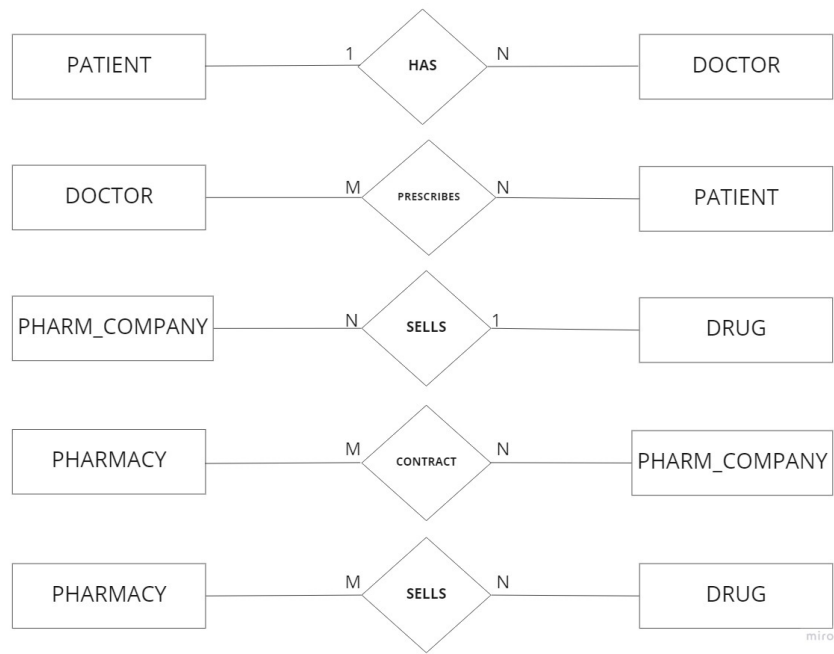
- Entity: represents a real-world object or concept with an independent existence.
- Weak Entity: an entity that does not have a key attribute of its own.
- Attribute: represents some particular property of interest of an Entity.
- Attribute Value: data that further describes each entity.
- Relationship Instance: the set of tuples of a relation at a particular time.
- Composite Attribute: an attribute that can be divided into subparts, or basic attributes, with independent meaning.
- Multivalued Attribute: an attribute that may have a range of values for each individual entity.
- Derived Attribute: an attribute which value can be derived, determine, from other attributes.
- Key Attribute: an attribute which value is unique for each individual entity in the entity set.
- Value Set (Domain): set of values allow to be assigned to a specific attribute for each individual entity.

**Part 2 – Draw the following:**

a) PATIENT entity	Attribute and Type
	<ul style="list-style-type: none"> <li>• Name: Atomic</li> <li>• SSN: Key</li> <li>• Address: Multivalued</li> <li>• Prescription: Composite</li> <li>• Age: Atomic</li> </ul>
b) DOCTOR entity	Attribute and Type
	<ul style="list-style-type: none"> <li>• Name: Atomic</li> <li>• SSN: Key</li> <li>• Specialty: Atomic</li> <li>• Prescription: Composite</li> <li>• Years of Experience (YofE): Atomic</li> </ul>

<p>c) PHARMACY entity</p> 	<p>Attribute and Type</p> <ul style="list-style-type: none"> <li>• Name: Key</li> <li>• Contract: Composite</li> <li>• Phone: Atomic</li> <li>• Drug: Composite</li> <li>• Address: Atomic</li> </ul>
<p>d) DRUG entity</p> 	<p>Attribute and Type</p> <ul style="list-style-type: none"> <li>• Trade Name: Key</li> <li>• Pharma Co: Atomic</li> <li>• Formula: Atomic</li> <li>• Pharmacy: Composite</li> </ul>
<p>e) PHARM_COMPANY entity</p> 	<p>Attribute and Type</p> <ul style="list-style-type: none"> <li>• Name: Key</li> <li>• Phone: Atomic</li> <li>• Drug: Atomic</li> <li>• Contract: Atomic</li> </ul>

f) Draw the names of all relationships and its constraints.



**Part 3 – Design and draw the ER diagram for that.**

