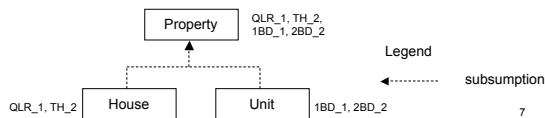




## Classification

- Mary either rents a house or unit.
- What is a broader term for the house or unit?
- Property in terms of real estate is regarded as the broader term.
- In Ontology
  - Property is a *super-class* of the house or unit.
  - The House and unit are *subclasses/specialisations* of the property.



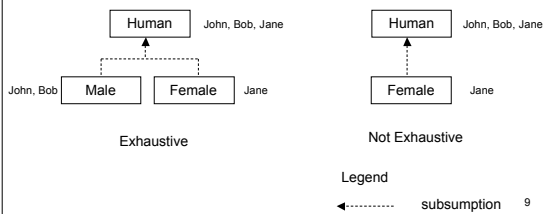
## Classification Types

- Exhaustive Classification
- Disjoint Classification

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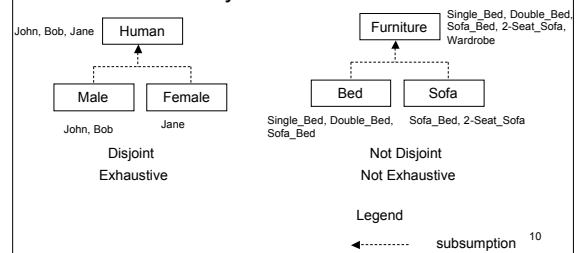
## Exhaustive Classification

- Any instance from a super-class must be in at least one subclass.



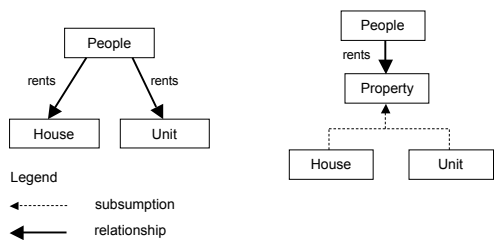
## Disjoint Classification

- Any instance from a superclass must be in one and only one of its subclasses.

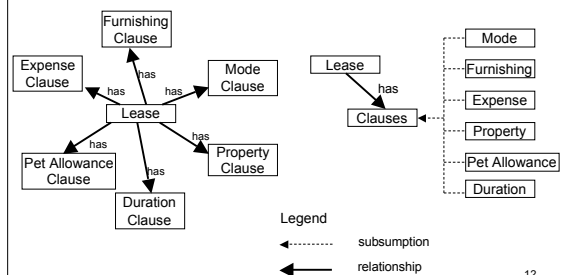


## Developing Accommodation Ontology (1a1)

- People want to rent accommodation. They can either rent an entire unit or house.

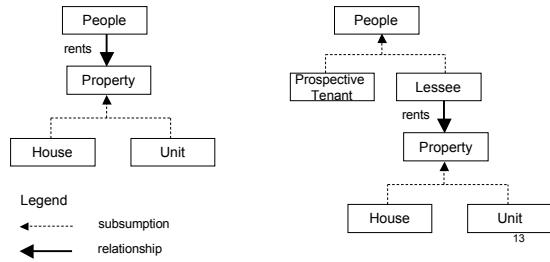


## Developing Accommodation Ontology (1a2)



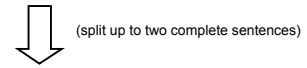
### Developing Accommodation Ontology (1b)

- People want to rent accommodation. They can either rent an entire unit/house.



### Developing Accommodation Ontology (2a)

Owners of units or houses place them for rent with an estate agent, who manages the leases, looks after bonds and collects rent.



Owners of units or houses place them for rent with an estate agent.

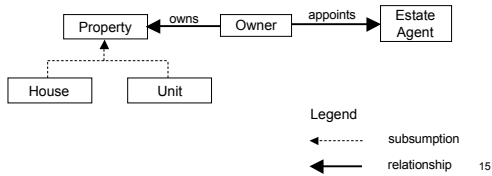
AND

The real estate manages the leases, looks after bonds and collects rent.

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### Developing Accommodation Ontology (2b)

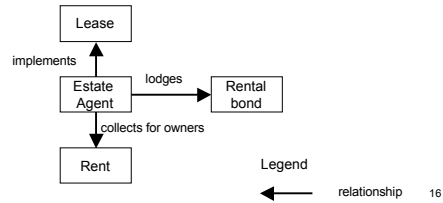
- Owners of units or houses place them for rent with an estate agent. (= Owners of units or houses appoints an estate agent for leasing their houses or units)



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### Developing Accommodation Ontology (2c)

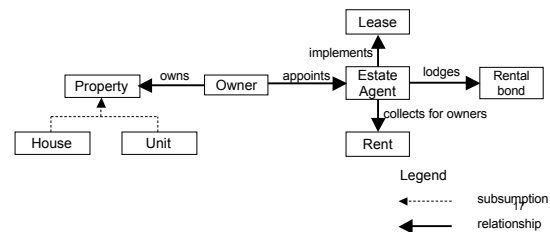
- The real estate manages (implements) the leases, looks after (lodges) bonds and collects (for owners) rent.



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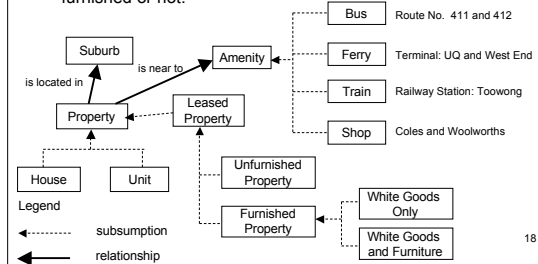
### Developing Accommodation Ontology (2d)

- Owners of units or houses place them for rent with an estate agent, who manages the leases, looks after bonds and collects rent.



### Developing Accommodation Ontology (3a)

- A unit/house is described by type of building (unit or house), suburb, nearness to shops, rail, busses, ferry, whether furnished or not.



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