COSC 471/571 hw0314   Distributed: 3/15/19   Due: 3/19/2019
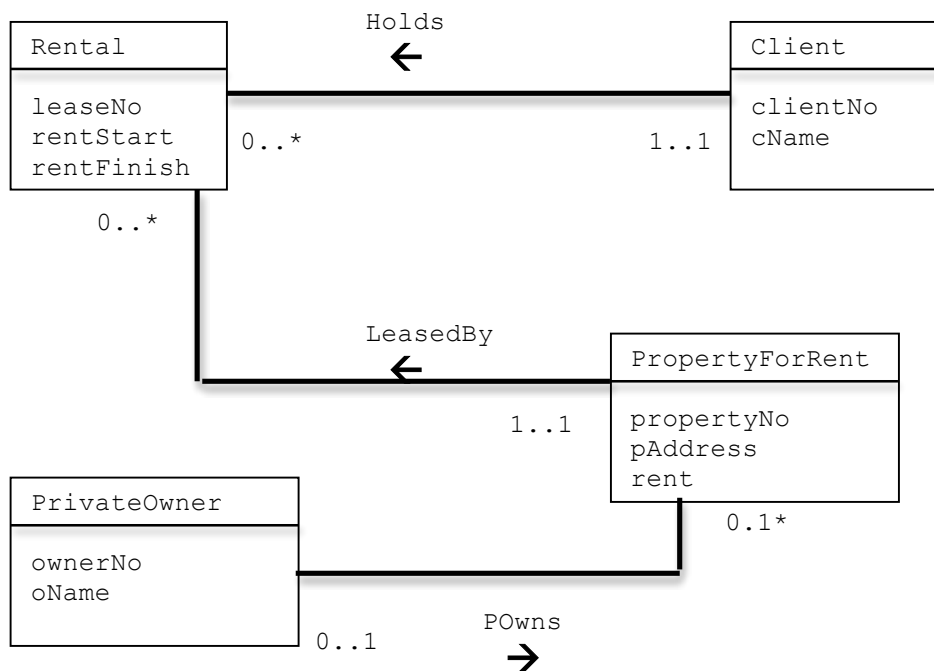
Consider this subset of the ER diagram given in Figure 12.1 (p 407) for the Branch view of *DreamHome.*

Notice: Entity "Lease" is given the name "Rental",
        Entity "Rental" is given the additional attributes rentStart and rentFinish (as used in Figure 14.12, p 469)
        Entity "PropertyForRent" is given the additional attributes pAddress and rent (as used in Figure 14.12)
        Entity "PrivateOwner " is given the additional attribute oName (as used in Figure 14.12)

```
                          Holds
  ┌─────────────┐                          ┌─────────────┐
  │ Rental      │          ←               │ Client      │
  ├─────────────┤                          ├─────────────┤
  │ leaseNo     │                          │ clientNo    │
  │ rentStart   │  0..*              1..1  │ cName       │
  │ rentFinish  │                          │             │
  └─────────────┘                          └─────────────┘
       0..*

                     LeasedBy
                              ←            ┌─────────────────┐
                                          │ PropertyForRent │
                                          ├─────────────────┤
                              1..1        │ propertyNo      │
                                          │ pAddress        │
  ┌─────────────┐                         │ rent            │
  │ PrivateOwner│                         └─────────────────┘
  ├─────────────┤                              0.1*
  │ ownerNo     │
  │ oName       │
  └─────────────┘
              0..1        POwns
                              →
```

The step-wise normalization from 1NF to 3NF is given in Figure 14.12 (1NF), Example 14.10 (2NF), Example 14. 11 (3NF).

For each of the proposed database designs, give the entities from the ER diagram that are modeled by the indicated schema (from Fig 14.12, Ex 14.10, Ex 14.11)

Design to 1NF	ER Entity(ies) modeled by schema
ClientRental	

==

Design to 2NF	ER Entity(es) modeled by schema
Client	
Rental	
PropertyOwner	

==

Design to 3NF	ER Entity(es) modeled by schema
Client	
Rental	
PropertyRorRent	
Owner	

==

1NF has this schema:
```
ClientRental (clientNo, propertyNo, cName, pAddress, rentStart,
              rentFinish, rent, ownerNo, oName)
```

2NF has this schema:
```
Client        (clientNo, cName)
Rental        (clientNo, propertyNo, rentStart, rentFinish)
PropertyOwner (propertyNo, pAddress, rent, ownerNo, oName)
```

3NF has his schema:
```
Client        (clientNo, cName)
Rental        (clientNo, propertyNo, rentStart, rentFinish)
PropertyForRent(propertyNo, pAddress, rent, ownerNo)
Owner         (ownerNo, oName)
```