

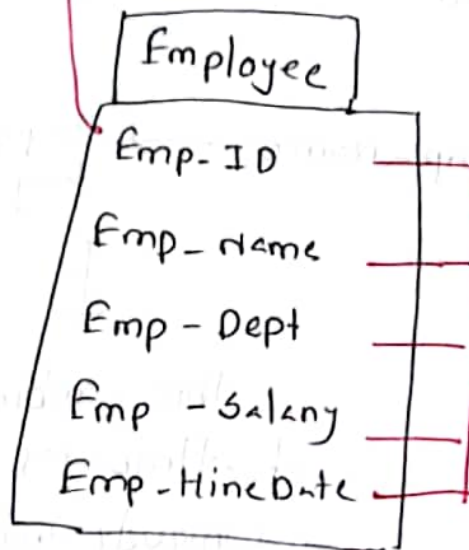
## Types keys

Primary key is always  
candidate key

→ only one  
primary key

Primary  
key

→ is a  
selected  
candidate  
key that  
is used to  
uniquely  
identify  
each entity  
in the  
entity sets



→ specify  
important  
attributes of  
relation

→ cannot contain  
NULL value

→ candidate keys  
not always  
primary key

→ more than  
one candi. key

## candidate key

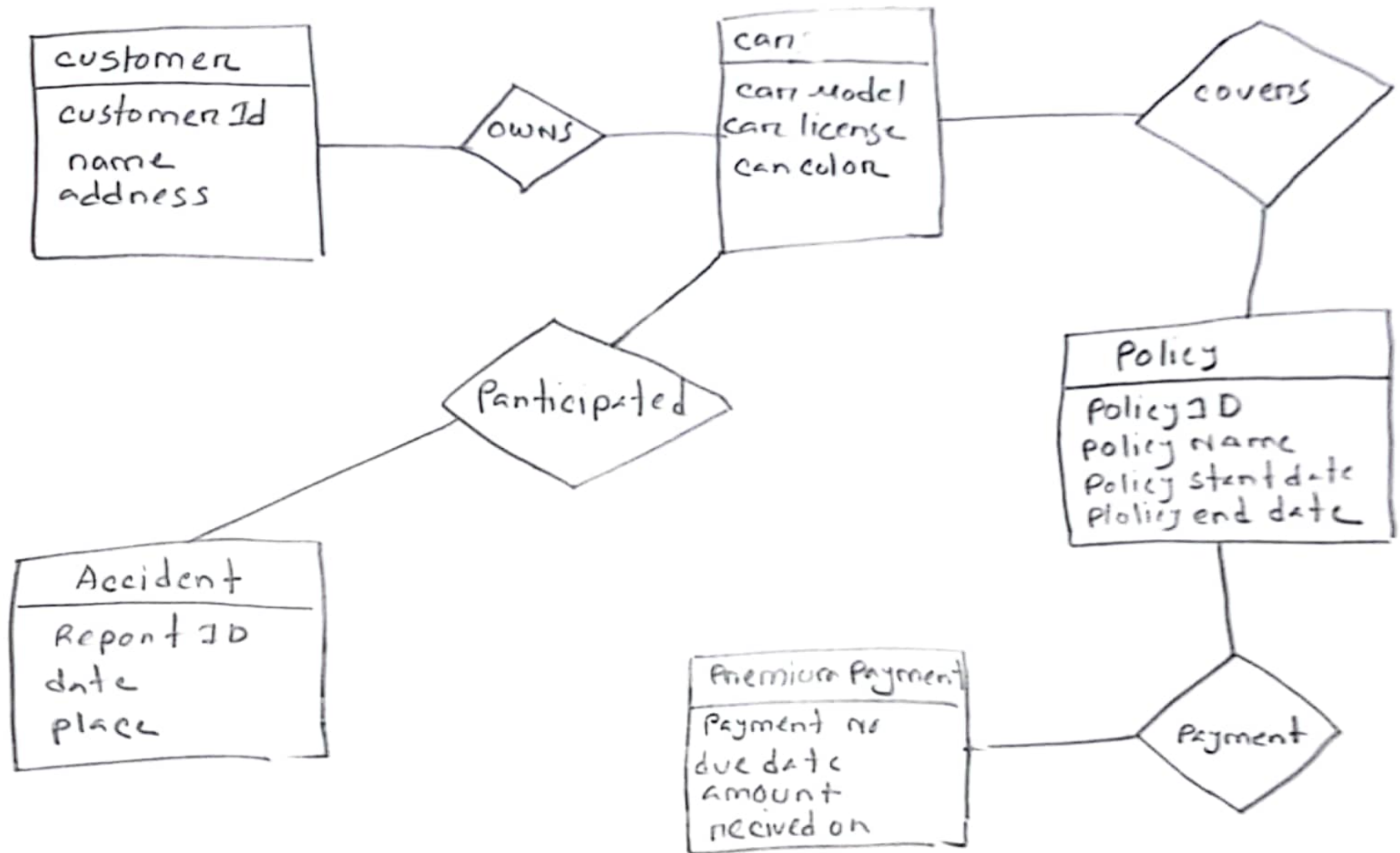
→ a candidate  
key is a  
minimal super keys  
without redundant  
attributes

→ combinations  
of keys that  
could potentially  
serve a primary  
key

→ specify  
the keys  
which can  
qualify for  
primary key

→ cannot contain  
NULL value

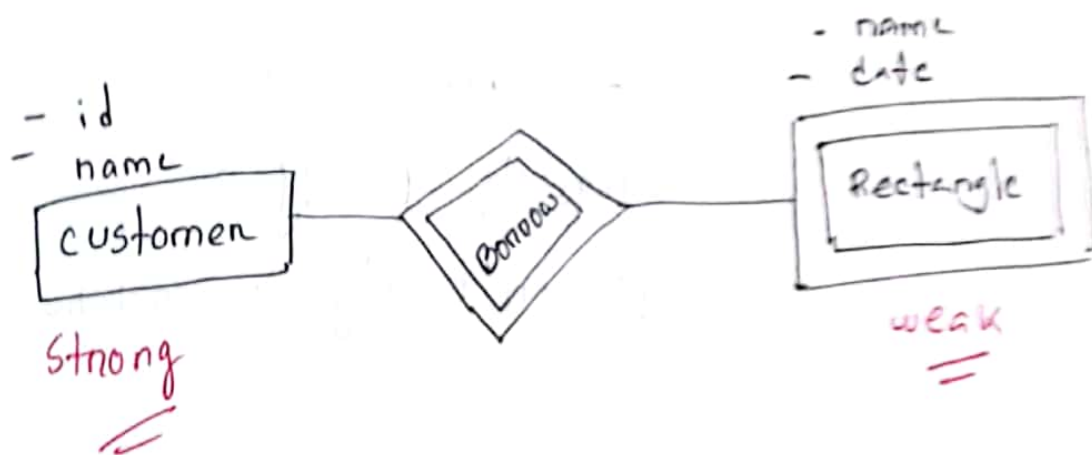
# ER diagram Car Insurance Company



weak entity have  
a foreign key referencing  
a primary key of strong  
entity

represented by  
single rectangle

represented by  
double rectangle



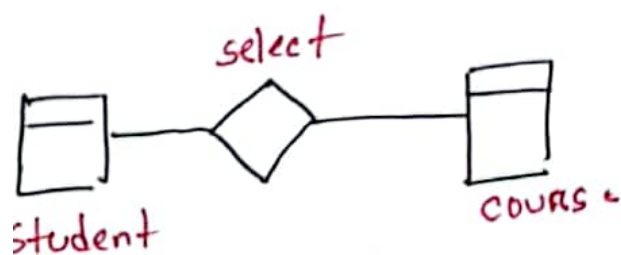
## Strong Entity

① a strong entity is an entity that is not dependent on any other entity.  
(Independent)

② It has a primary key

③ It is independent in nature

④ The connection between two strong entities is shown by a solid diamond



## Weak Entity

① a weak entity is not independent as it is reliant on another strong entity. It has to rely on another entity to ensure its existence

② It doesn't have a primary key

③ It is dependent in nature

④ weak entity dual solid diamond

