

Assumptions:

- “Sometimes one fire event may spark further fire events”: Unary relationship within the FIRE_EVENT entity. It is unreasonable to create another entity & linking it to the FIRE_EVENT entity.
- Since an address is a Multi-valued attribute, it is wise to create a separate ADDRESS entity & linking it to the PROPERTY entity.
- “These building numbers are reused for each property”: We cannot use BUILDING_NO. as a Primary Key, since a Primary Key must be unique & different for each value in an entity.
- “The total dollar cost of the damage to the building is recorded”: It will be wise to create a Composite Entity called DAMAGE to better explain the relationship between INSURANCE_ASSESSORS & BUILDING.
- Since a PROPERTY is owned by an OWNER, it will be wise to include the owner_name attribute in the PROPERTY entity. Likewise, insurer_name & assessor_name were included in the BUILDING and DAMAGE entities respectively.