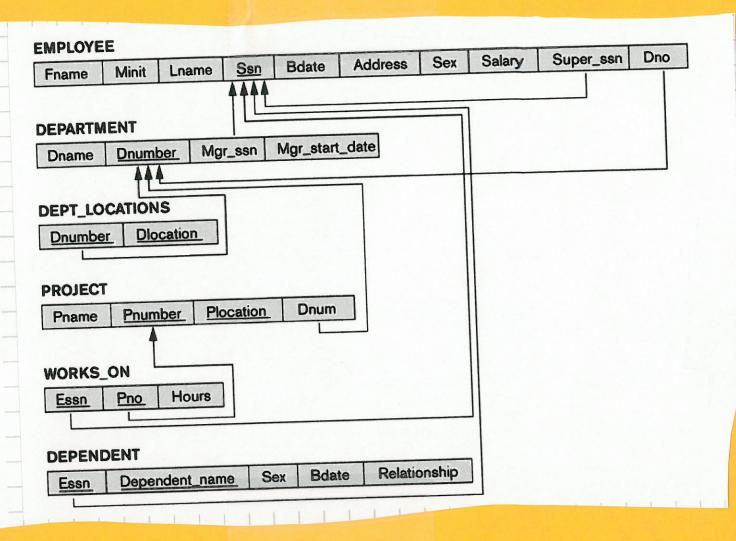


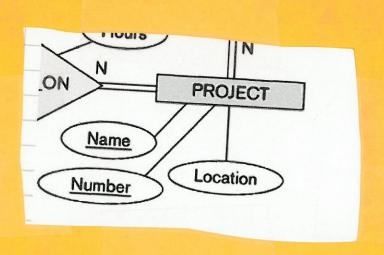
Goal:



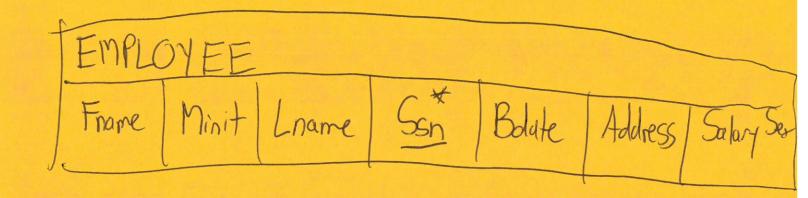
- tables by Single valued attributes
 primary Reys (other keys)
 refferential integrety constraints
- refferential integrety constraints between relations

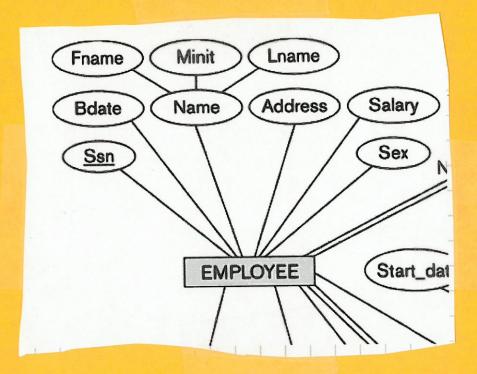
Step 1: Strong entity types for each strong entity type E create a relation R for E add all simple attributes of E to R for each composite attribute C flatten and add, C to R
attributes of Choose key attribute of E and set as primary key of R For remaining key of E add addithonal keys

Eg.



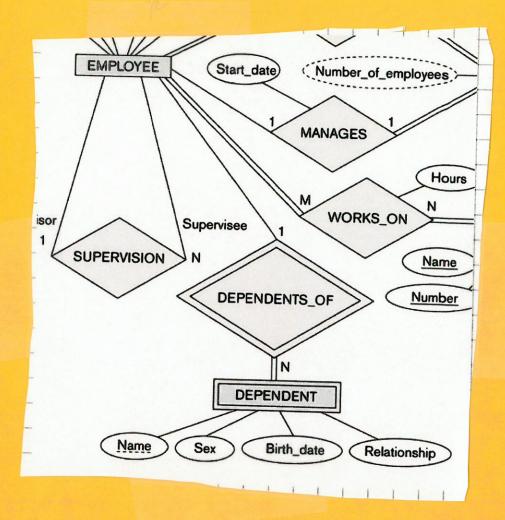
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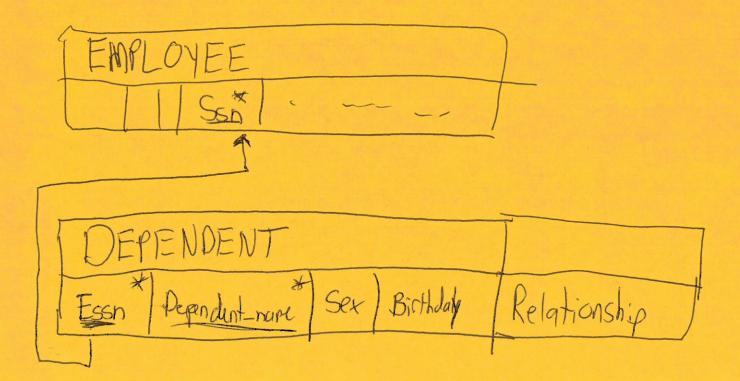




Step 2: Weak entities

For each Weak entity type W E is the owner entity of W (if E is weak type and process later) create a relation R fow W (add attibutes as before) add foreingn key attribute to R from primary key attribute of W Set primary key of \$ as primary key of owner and partial key of w





Step 3; Mapping 1:1 relationships tor each 1:1 relationship R identify relations S and T for entity types participating in R pick approach and perform: - foreign key (most common) - merged relationship - Cross reference

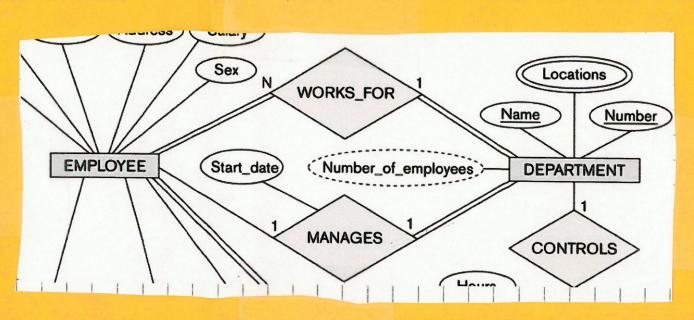
Foreign Key

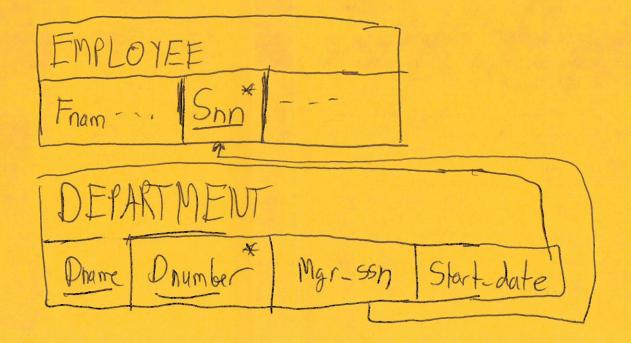
choose one as foreign bey of other

(e.g. S is will have a foreign key to t)

(often choose S wy total participation)

add foreign key and attribute





Merged relation (useful if both entity
types have total participation)

- merge two relations into 1