

Mapping

- Entity
 - Strong: become a table
 - Weak: become a table

PK

ID

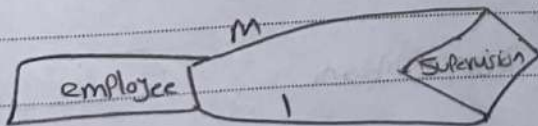
Choose an attribute like ID to be PK

PK for weak → Primary key = Partial key + Primary key of related strong Entity
 ↳ "Composite key"

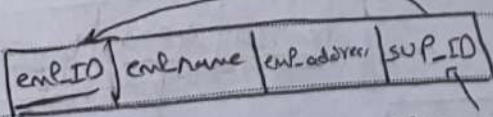
- attributes
 - Simple: Direct columns
 - Composite: broken into sub-columns
 - Multi-Value: make a new table
 - * insert PK from original table to the new table
 - * PK in new table is FK
 - * PK for new table is Composite key
 - Complex: Composite + Multi-value
 - * Create new table
 - * insert PKs from original table to be a FK in the new table
 - * PK in the new table is Composite key
 - Derived: not stored directly "calculated when needed"

- Relationships:

Self (Unary)

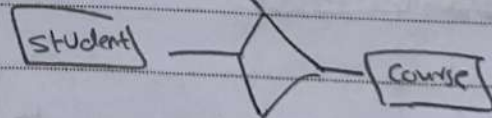


* PK → FK



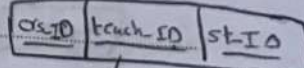
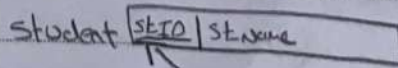
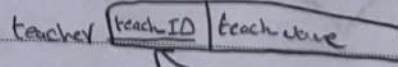
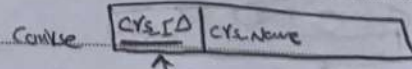
ID for the supervisor

ternary



create new table

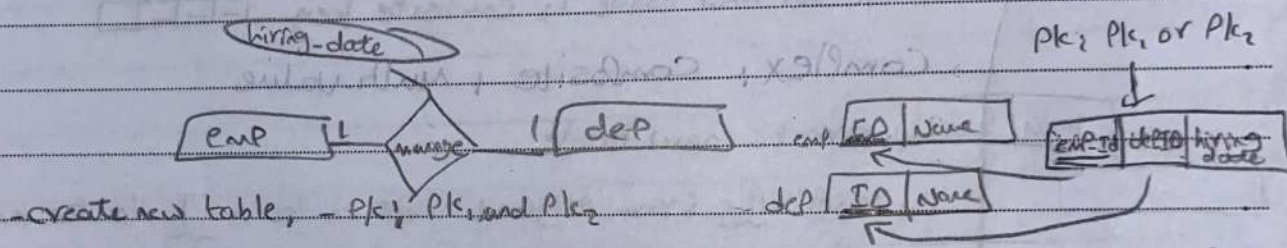
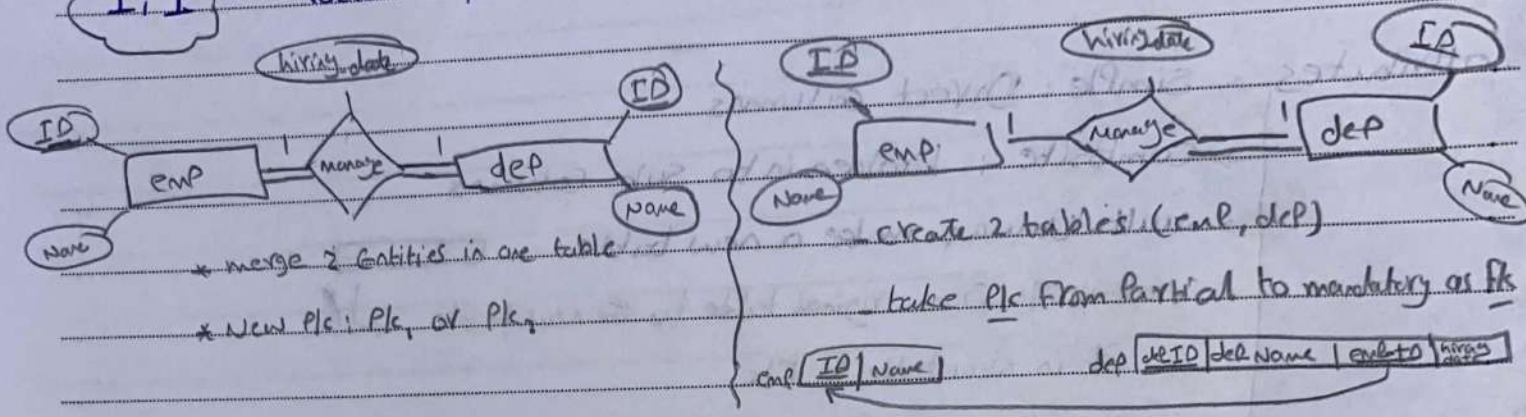
insert the PK for the three tables to the new table



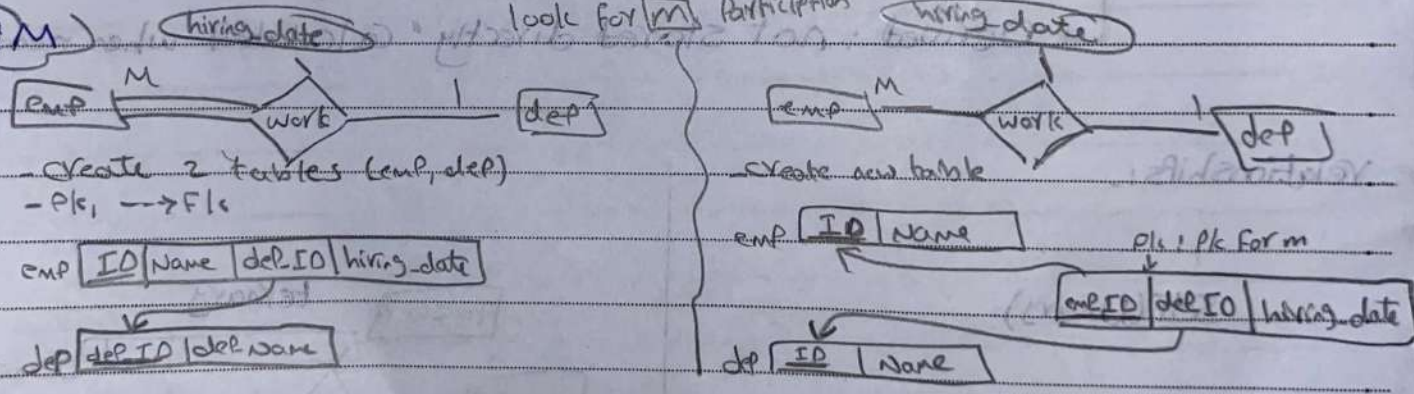
look to Cardinality & Participation

Binary
 1:1
 1:M
 M:M

1:1 look to Participation
 mandatory Partial



1:M look for M Participation



M:M

do not look at Participation

