

---

---

---

---

---



## Lec-8

\* Transformation from ER model to Relational model.

Loan  $\rightarrow$ 

Loan-number	amount
-------------	--------

weak Entity Payment  $\Rightarrow$

P.K.

P.K.

Loan-number	payment no.	payment-date	payment-amount
-------------	-------------	--------------	----------------

\* Composite attribute  $\rightarrow \rightarrow$  sep. attribute for each component.

Customer table

customer-name	address-city	address-state	address-pincode	address-streetno.
				address-streetname

\* Multi-value attribute

F.K



emp-id	dname.
--------	--------

dependent-name - new relation.

{ emp-id, dname }



P.K ..

\* Generalization

Method 1

\* Aggregation →

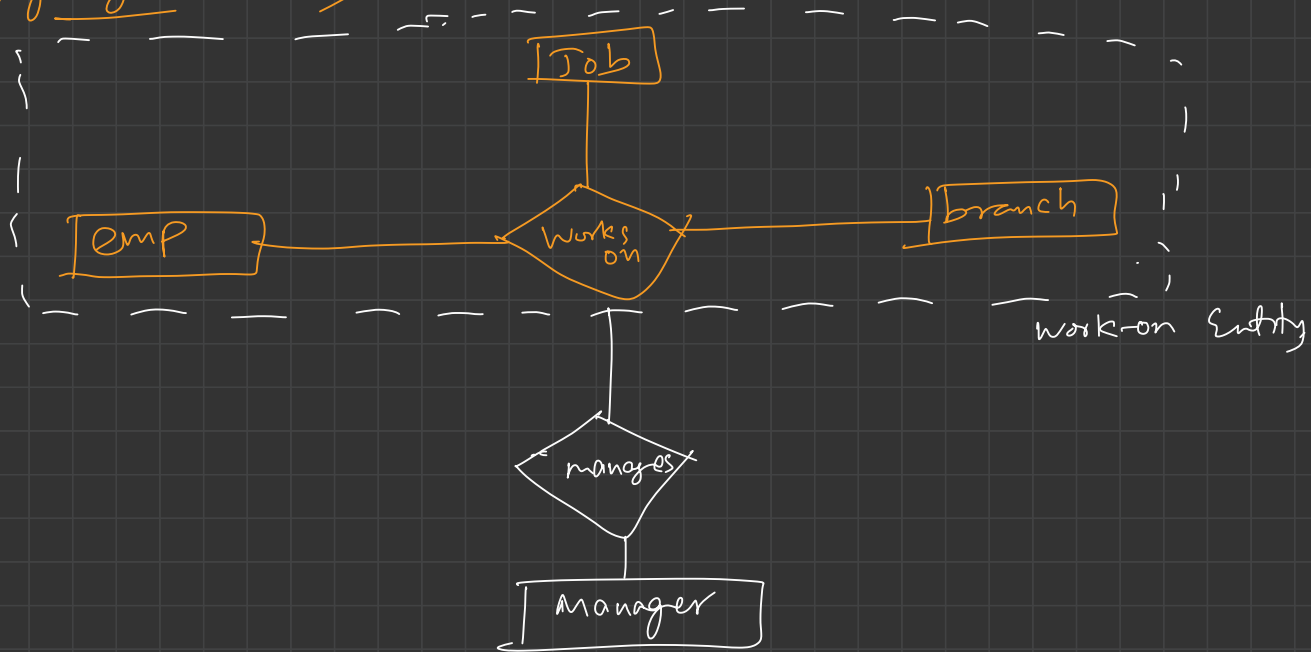
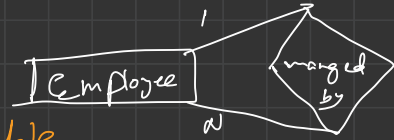


Table: manages ( mgr-id, emp-id, job-id, branch-id ) P.K.

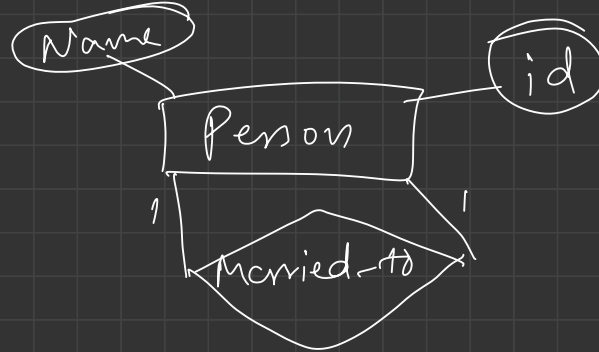
# \* Unary Relationship :-

we will add another attribute in Employee table,  
which will be F.K.



Emp-id	name	joining date	Emp_mgr_id
201	---	---	205
202	---	---	205
205	---	---	Null.

\* 1:1 →



Person(id, Name, spouse\_id)  
{ F.K }

\* M:N  $\rightarrow$

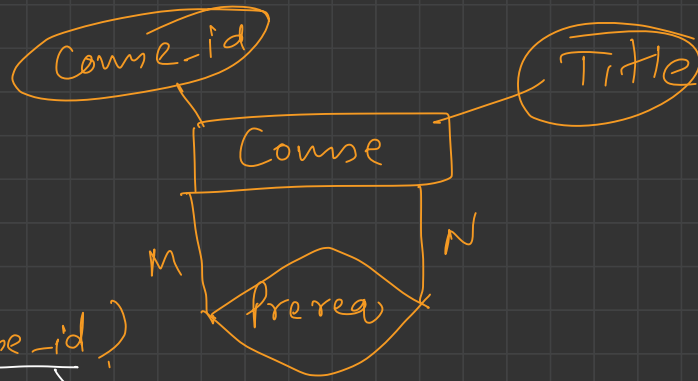
① Course ( id  $\rightarrow$  Title )

② prereq ( id, prereq, -course-id )

$\downarrow$   
{FK}

$\downarrow$   
{FK}

$\rightarrow$  P.K



## \* FB Relational Model

- (1) user\_profile ( username, name-first, name-last, password, DOB )
- (2) user-profile-email ( username {F.K}, email )
- (3) user-profile-contact ( username {f.k}, contact-number )
- (4) friendship ( profile\_req {f.k}, profile\_accept {f.k} )  $\longrightarrow$  Compound key
- (5) post-like ( post-like-id, timestamp, post-id {f.k}, username {f.k} )
- (6) user-post ( post-id, created-timestamp, modified-timestamp, text-content, username {f.k} )
- (7) user-post-image ( post-id {f.k}, image-url )
- (8) user-post-video ( post-id {f.k}, video-url )
- (9) post-comment ( post-comment-id, text-content, timestamp, post-id {f.k}, username {f.k} )