A set of four horizontal lines for writing, with a small pen icon at the end of the bottom line.

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 →

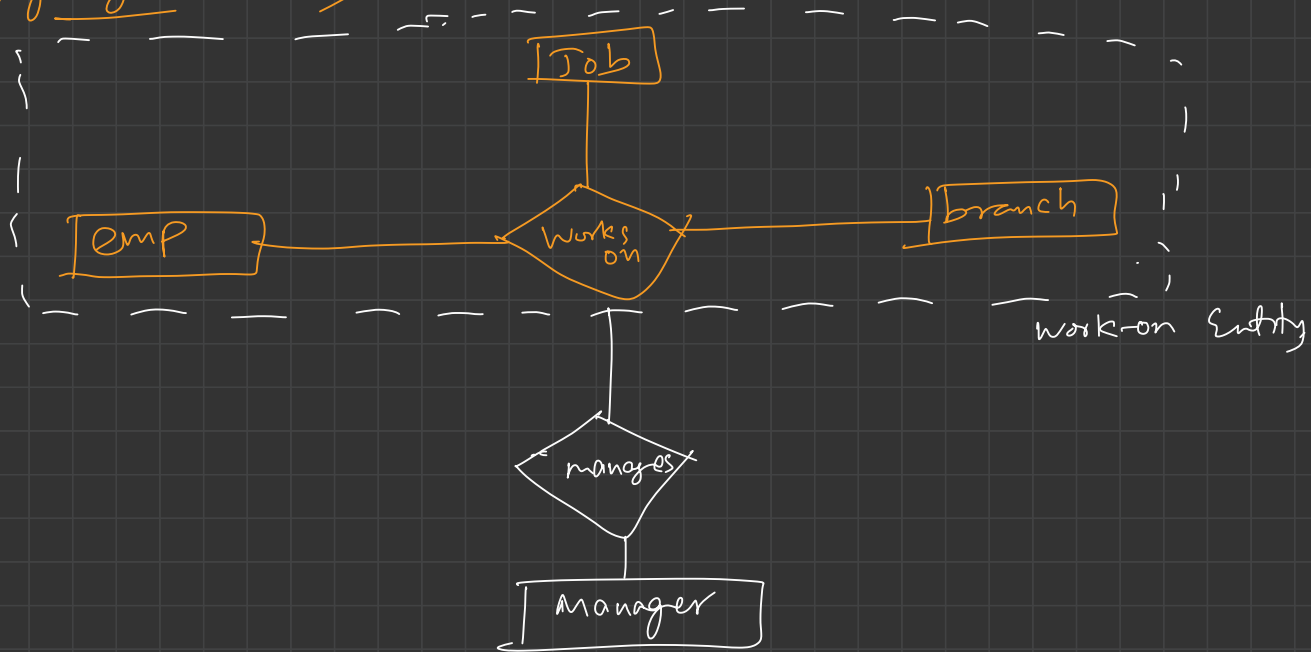
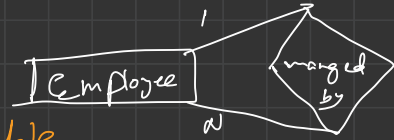


Table: manages (mgr-id, emp-id, job-id, branch-id) P.K.

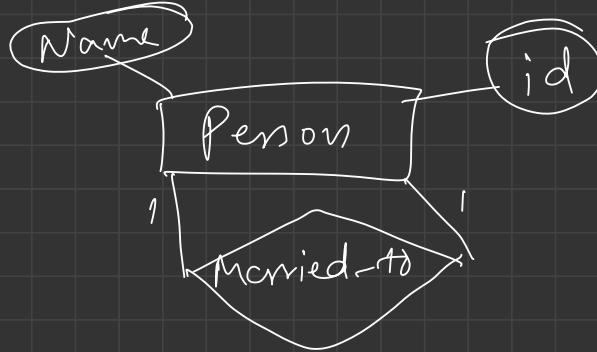
* Unary Relationship :-

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 →



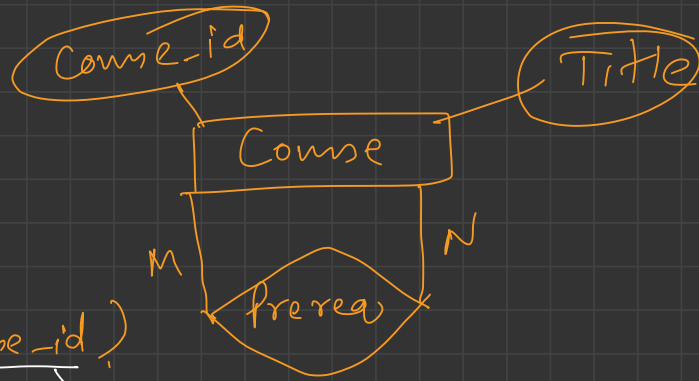
Person(id, Name, spouse_id)
{ F.K }

* M:N \rightarrow

① Course (id \rightarrow Title)

② prereq (id, prereq, -course-id)

\downarrow \downarrow \rightarrow
{FK} {FK} 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})