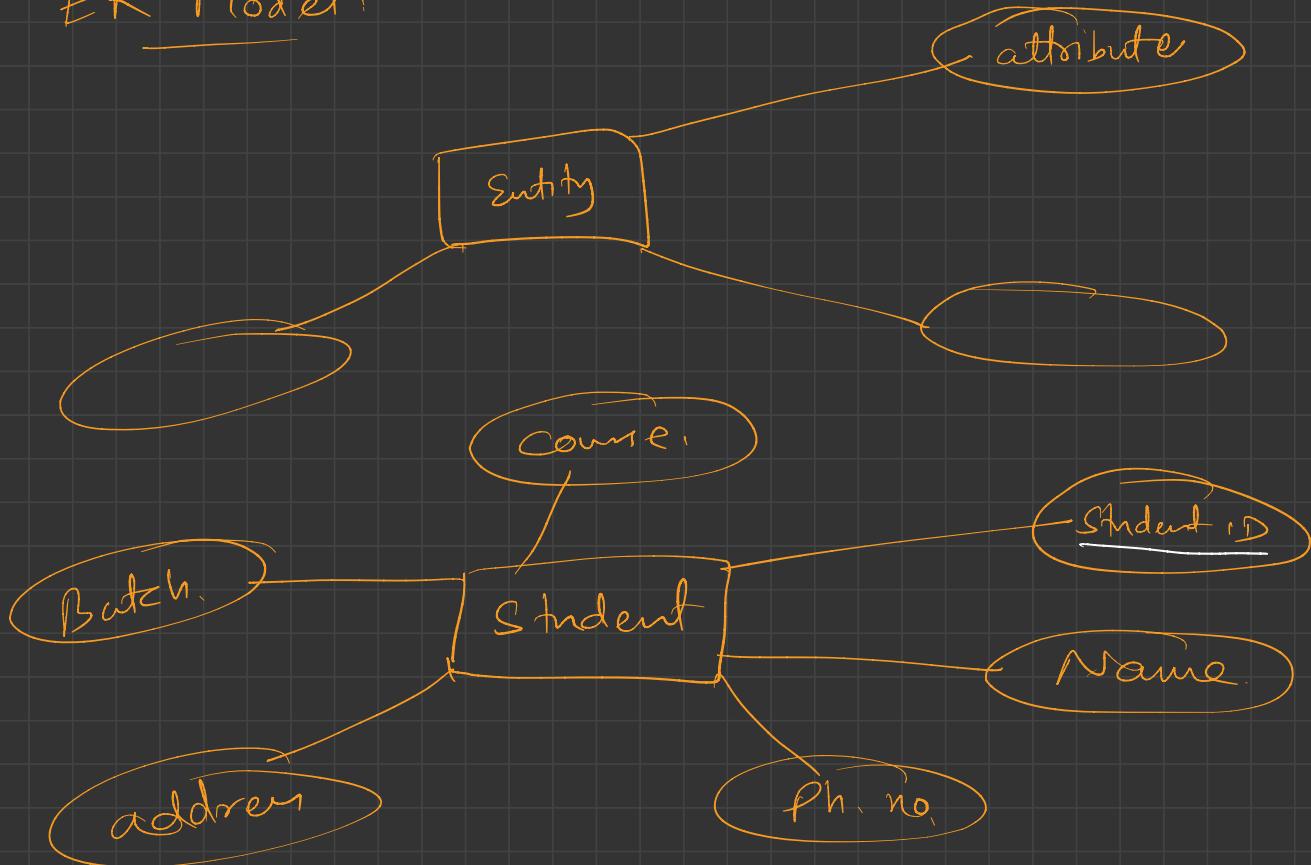
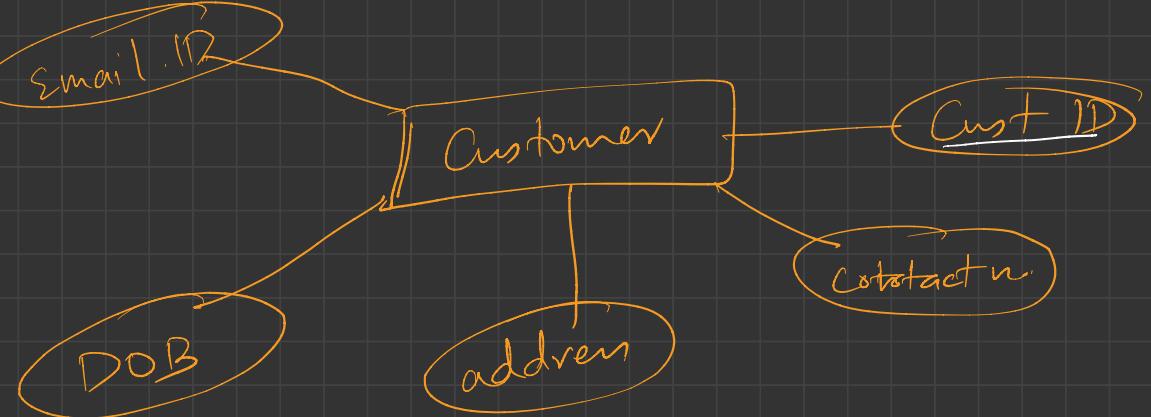



Lec - 3

ER Model:





→ Unique attribute → Primary Key

Entity Set →



Attributes

Relationships :-

Banking.

Customer , Loan , Account.

① Customer borrow Loan.

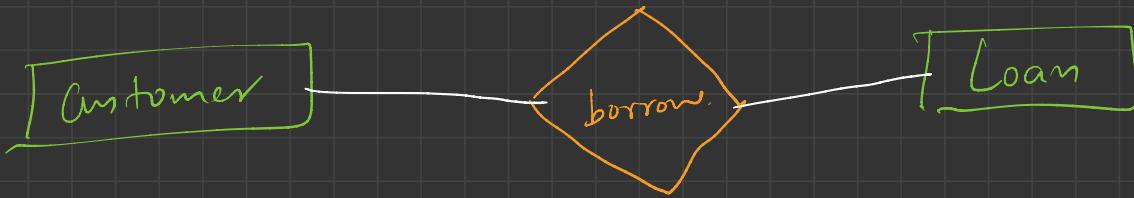
② Customer deposit Account.

→ Customer places Order.

→ Professor takes Course.

→ Student enroll Course.

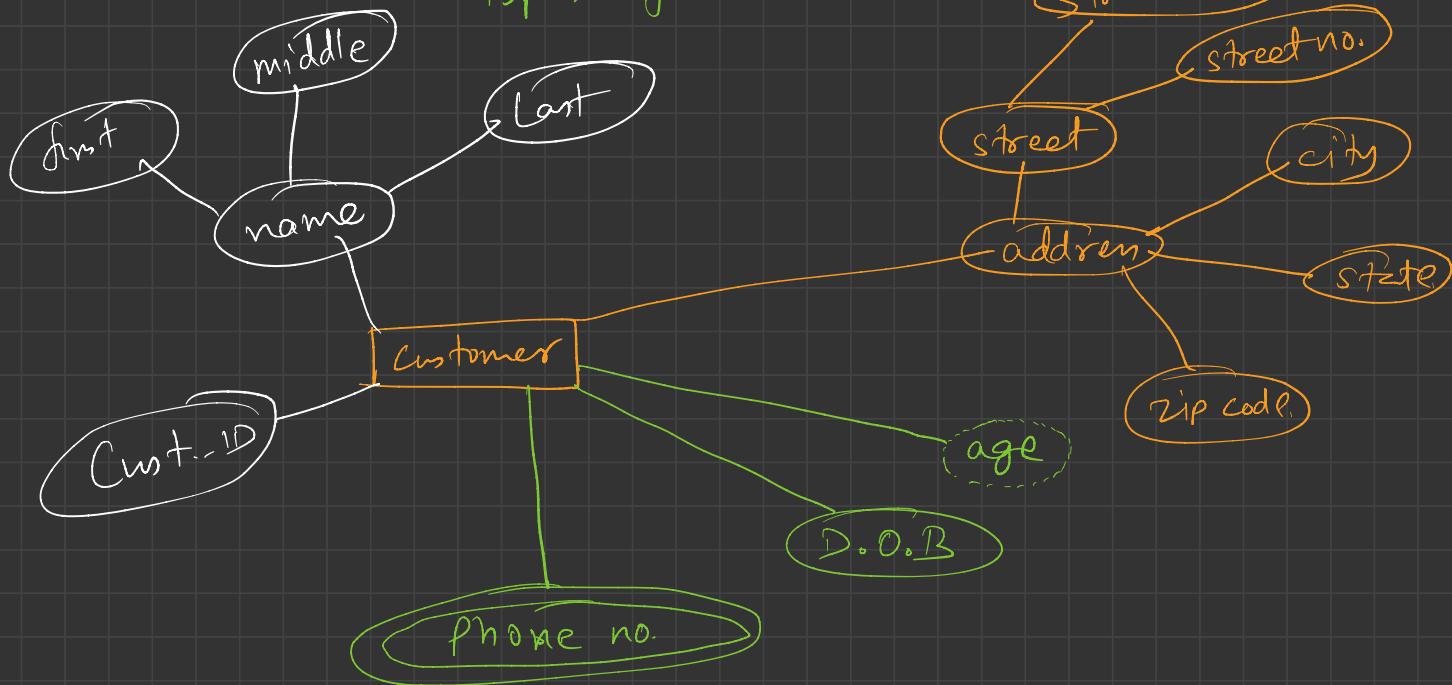
→ Citizen has Vehicle.



* Attributes



Types of attributes



* NULL value

Relationships 1 — association among 2 or more entities



Strong Relationship

Weak Relationship

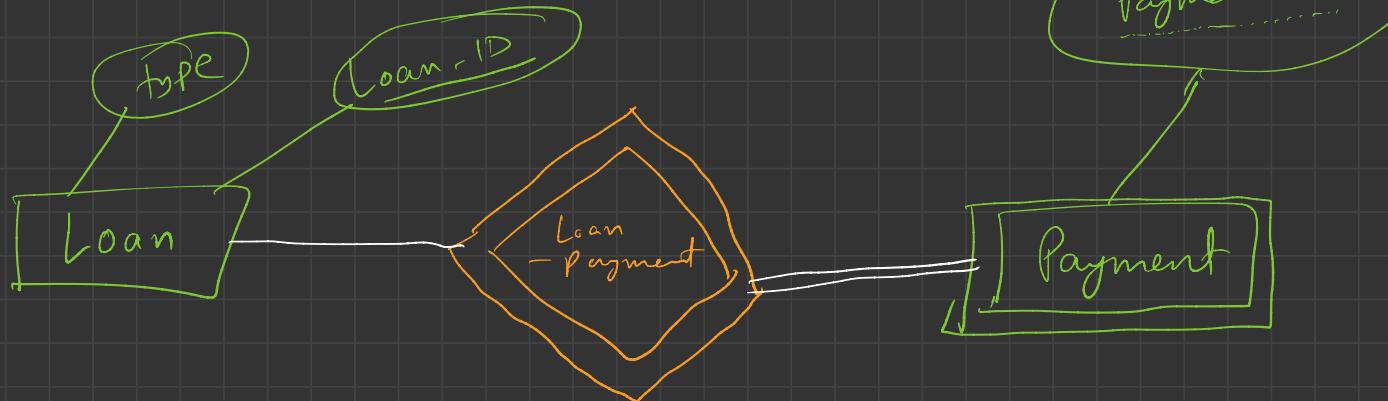
University system



strong entity

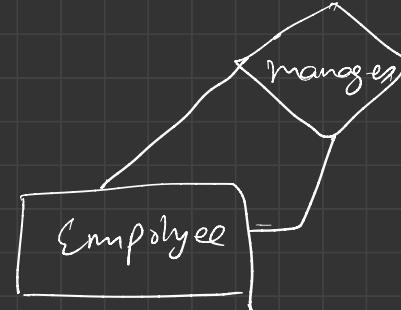
Weak Entity

weak Entity & weak relation



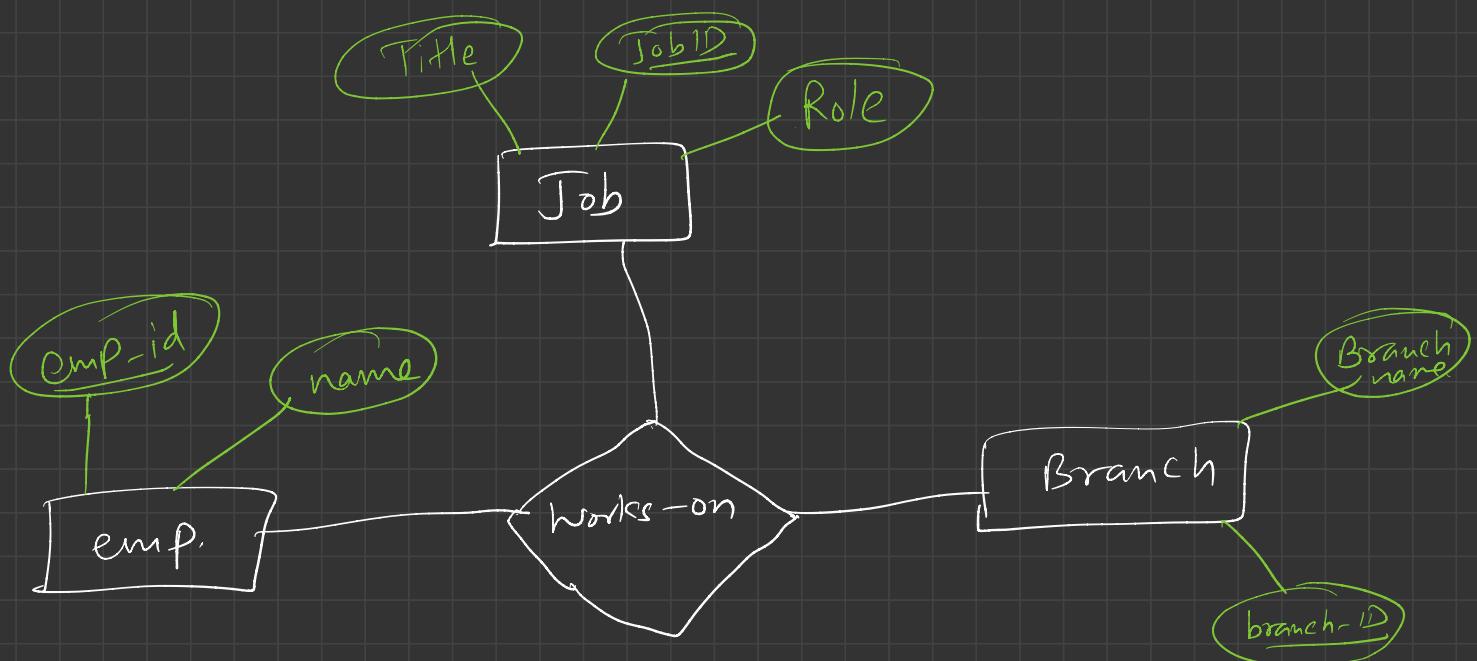
Degree of relⁿ ↗

① Unary ↗



② Binary relⁿ ↗

③ Ternary relⁿ ↗

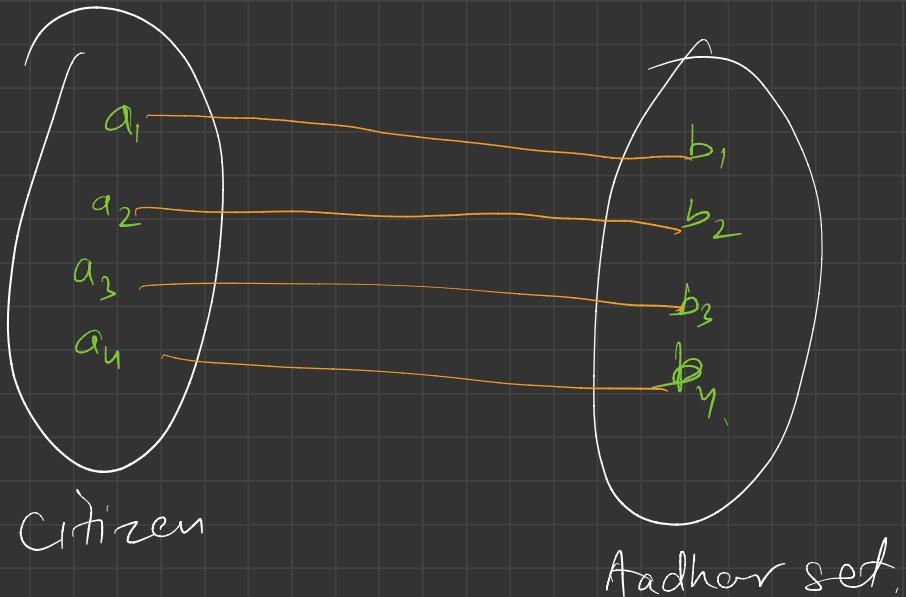


Ternary Relⁿ

→ Relationship constraints

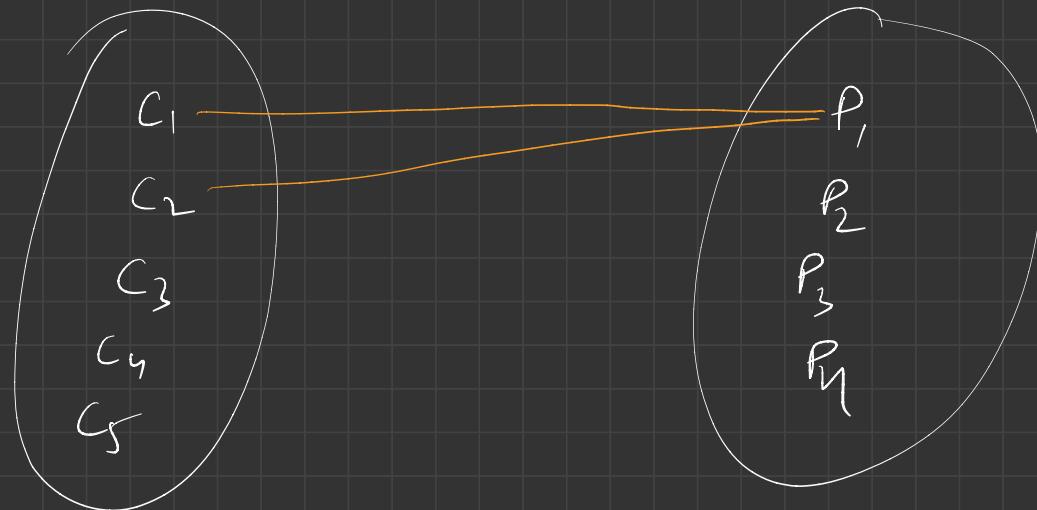
① Mapping cardinality

① 1 : 1



(3)

N : 1

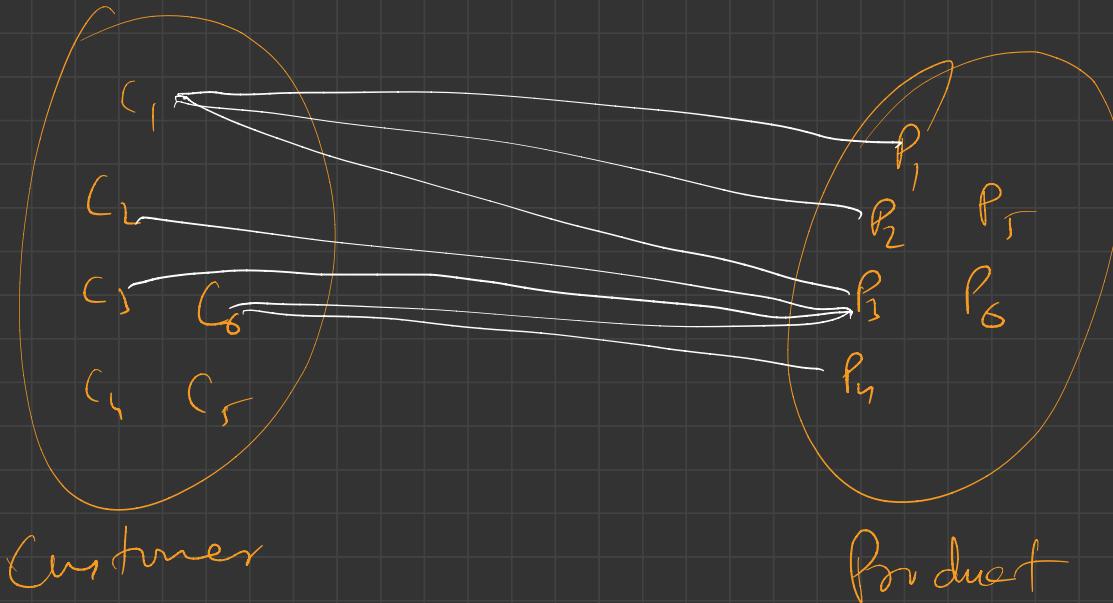


Course

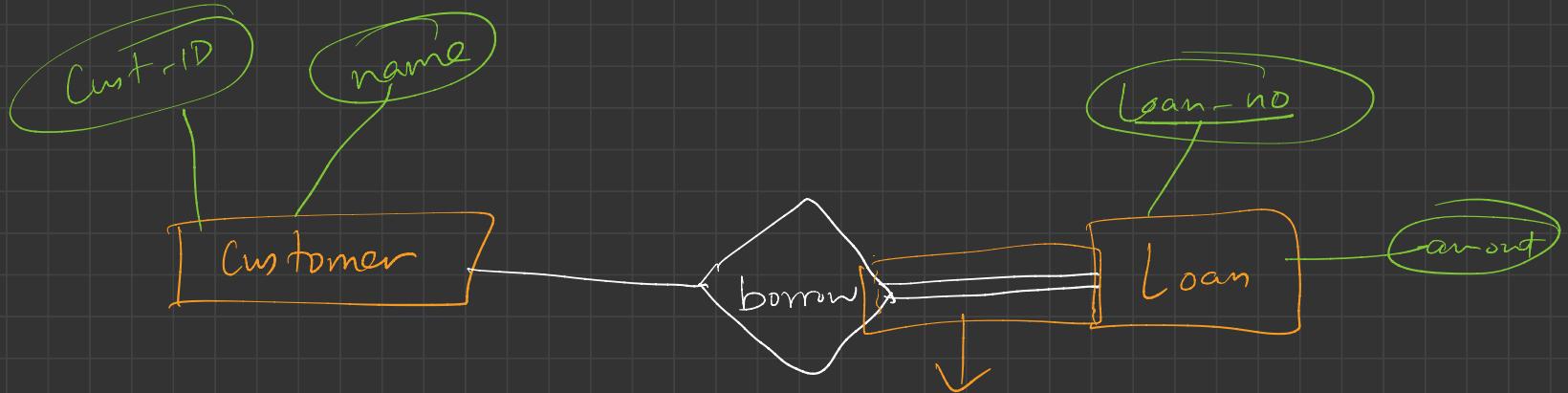
Professor



N : M



* Participation Constraint



total participation.

Cust → Loan → Partial Participation.

Loan → customer → Total "