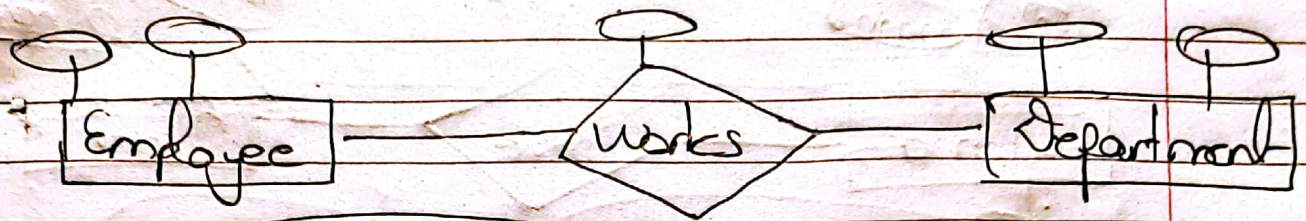


# Degree of Relationship (Cardinality)

① One to One.



<u>Eid</u>	<u>Ename</u>	<u>age</u>	<u>Eid</u>	<u>Dname</u>	<u>Dept</u>	<u>Dept</u>	<u>Dept</u>
E <sub>1</sub>	A	20	E <sub>1</sub>	D <sub>1</sub>	D <sub>1</sub>	IT	Hebbar
E <sub>2</sub>	B	21	E <sub>3</sub>	D <sub>2</sub>	D <sub>2</sub>	Prod	Kbm
E <sub>3</sub>	C	28	E <sub>2</sub>	D <sub>3</sub>	D <sub>3</sub>	HR	Blus
E <sub>4</sub>	A	24					Jand
E <sub>5</sub>	B	25					

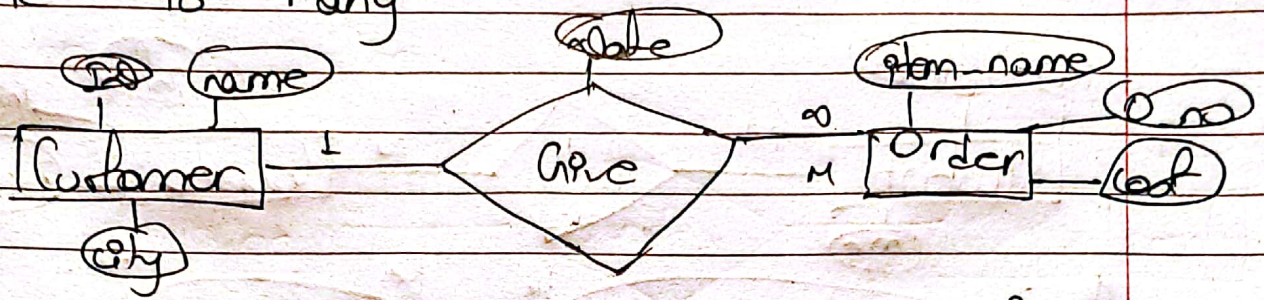
PK = either E<sub>1</sub> or D<sub>1</sub>.

→ Combined table :-

<u>Eid</u>	<u>Ename</u>	<u>age</u>	<u>Dname</u>
E <sub>1</sub>	A	20	D <sub>1</sub>
E <sub>2</sub>	B	21	D <sub>3</sub>
E <sub>3</sub>	C	28	D <sub>2</sub>
E <sub>4</sub>	A	24	-
E <sub>5</sub>	B	25	-



② Many to One  
One to Many



PK.				fk.	fk.		fk.		
ID	name	city		ID	O.no.	Date.	O.no.	Item name	cat
C <sub>1</sub>	Rohan	bk.		C <sub>1</sub>	O <sub>1</sub>		O <sub>1</sub>	Bagab	bk
C <sub>2</sub>	ram	KM		C <sub>1</sub>	O <sub>2</sub>		O <sub>2</sub>	short	bk
C <sub>3</sub>	shyam	dhara		C <sub>2</sub>	O <sub>3</sub>		O <sub>3</sub>	Shoes	bk
C <sub>4</sub>	hans	bet.		C <sub>2</sub>	O <sub>4</sub>		O <sub>4</sub>	Jeans	bk

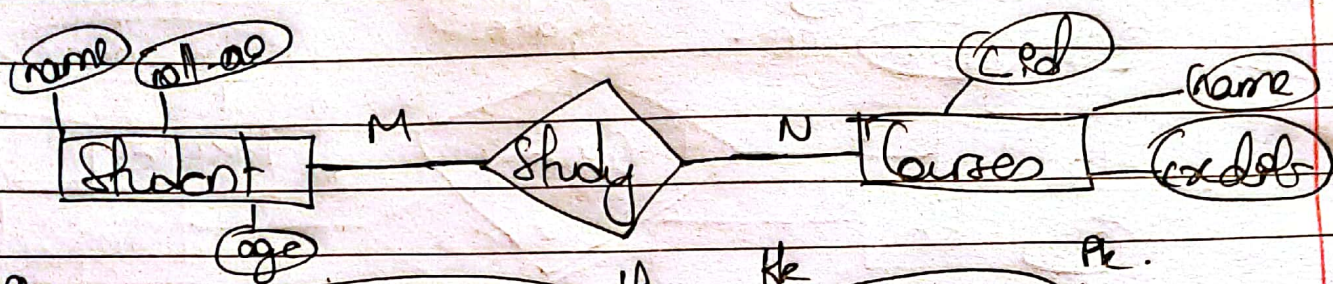
PK :- (O.no).

Combined table :-

ID	O.no	Item name	cat	Date
C <sub>1</sub>	O <sub>1</sub>			
C <sub>1</sub>	O <sub>2</sub>			
C <sub>2</sub>	O <sub>3</sub>			
C <sub>2</sub>	O <sub>4</sub>			



### ③ Many to Many.



Pk			Pk		Pk		
Roll no	name	age	Roll no	Cid	Cid	name	credits
1	A	16	1	C <sub>1</sub>	C <sub>1</sub>	maths	4
2	B	17	2	C <sub>2</sub>	C <sub>2</sub>	phy	4
3	A	16	1	C <sub>2</sub>	C <sub>3</sub>	chem	4
4	C	17	2	C <sub>1</sub>	C <sub>4</sub>	hindi	4
5	D	15	3	C <sub>2</sub>			

Composite key = Roll-no, Cid.

No table reduction.