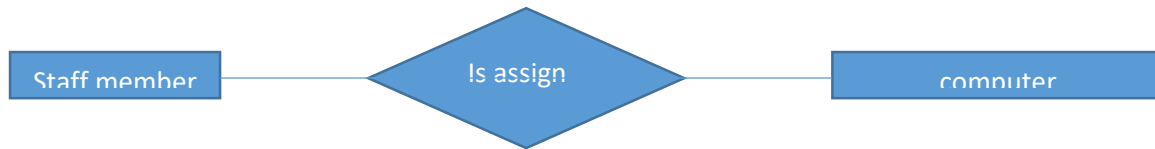


Normalization is be decomposing unsatisfactory bad relations by breaking into small relations.



1. Explain why the above table design is not suitable for ABC company

<u>Staff no</u>	<u>Com_no</u>	manufacture	cost
100	C1,c2	Dell ,HP	1lks,2lks
200	C3	HP	4lks

Table have multi value attribute


1NF

Computer

<u>Staff.no</u>	<u>Com.no</u>	manufacture	cost
100	C1	Dell	1lks
100	C2	HP	2lks
200	C3	HP	4lks

Full functional

- The attribute B is functionally dependent on attribute A if each rule in column



<u>Staff no</u>	<u>Com_no</u>	manufacture	cost
100	C1,c2	Dell ,HP	1lks,2lks
200	C3	HP	4lks

Partial dependency

-

Transitive dependency

- Non prime decide another non prime its called transitive.

2NF

HasComputer

<u>Computer no</u>	Manufacture	Cost
C1	DELL	1lks
C2	HP	2lks
C3	HP	4lks

Staff

<u>Staff no</u>	<u>Computer no</u>
100	C1
100	C2
200	C3

3NF

Has Computer (staff.no, computer.no)

computer (computer.NO, manufacture, cost)

NIN	contractno	hours	ename	h.no	hLoc
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Employeecontract (NIN, contract no, hours,ename,hno,hloc)

(NIN, Ename) partial

(NIN, contractno, hours) full

(Hno,Hloc) transitive

(contractno,hno) partial

2NF

Contarct (Contract no, h no, hloc)

employee (Nin, Ename)

employee contract(Nin,Contarctno,hours)

3NF

Contract (Contract no, h no)

hotel (hno, hloc)

employee (NIN, E name)

employee contract (nin,contactno,hours)