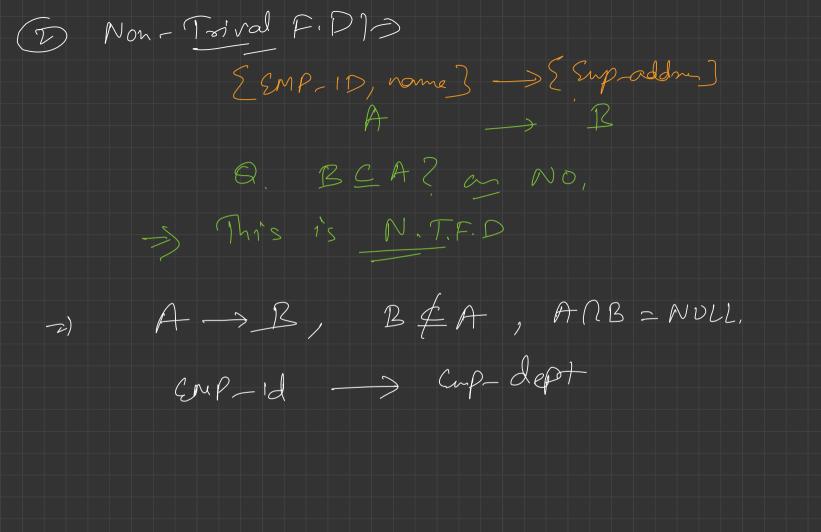


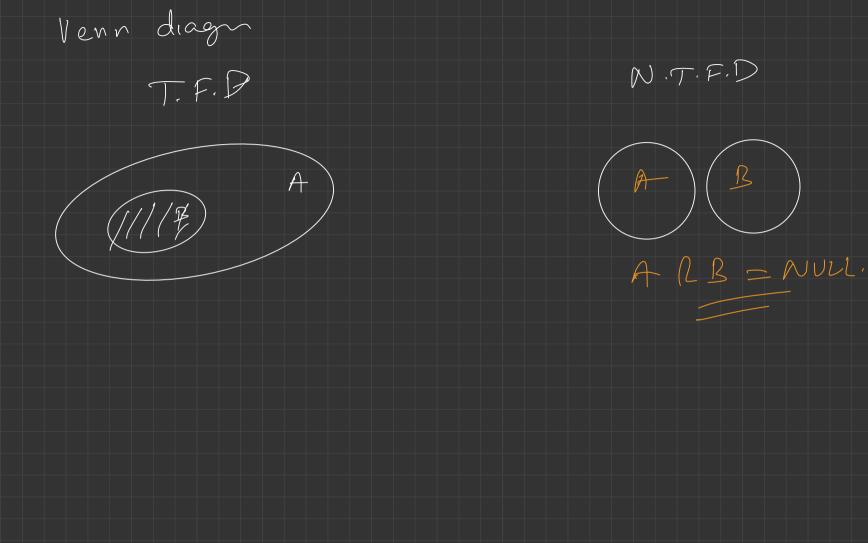
Normalization ?

Table

Determinant

eg. Smp = nane dept. oddnen. Emp id Sup-id -> Emp-name. Empid -> dept (1) Trivial F.Dr (A > B), Bis a subset of A. eg. SEMP-1D, Name 3 -> Sup-12 eg. ASA, ASA BORBER





1) Restenive $X = \{a,b,c,d,e\}$ Substet 7=5a,6,63 y is a subset X, X > Y. 2) Augmutahn R(XY,Z) $\times \rightarrow \lambda$

 $BD \rightarrow CD \Rightarrow B \rightarrow C?? \times \checkmark$

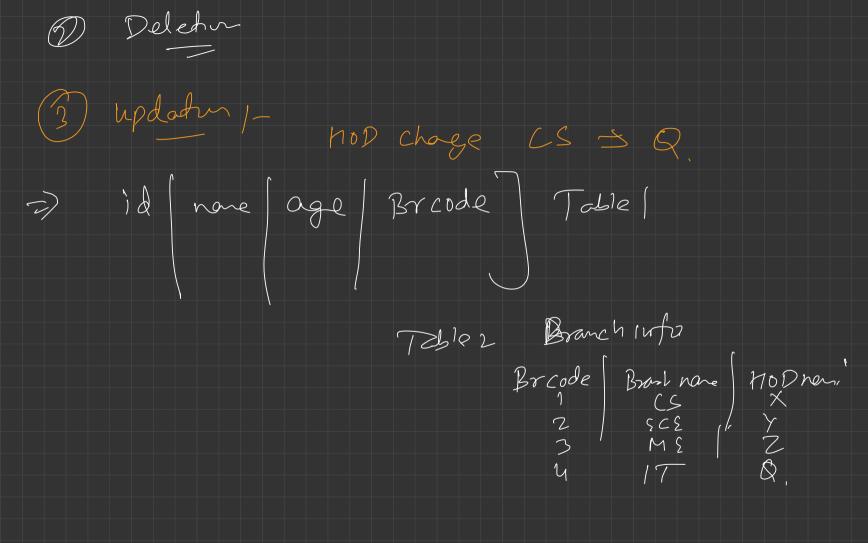
Q
$$R(A, B, C, D, E)$$

 $FD:-A \to C$
 $CD \to E$
 $CD \to ACC$?
 $C = CD \to C$
 $C = CD \to C$

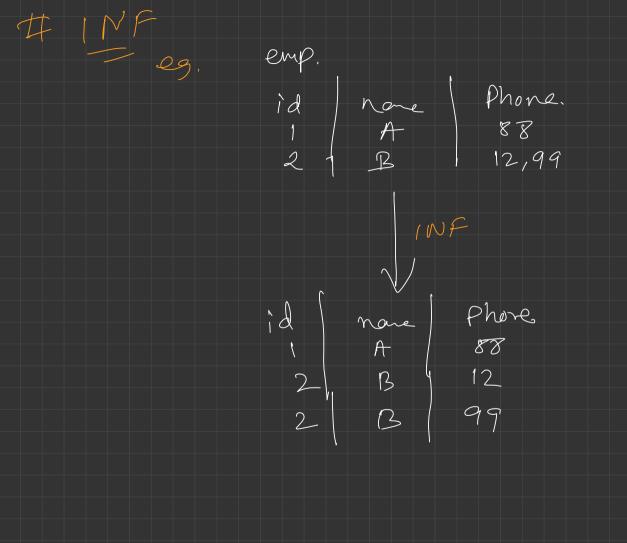
My Normalisation 2) What if we have redundant data? -> Introduces 3 anomalies -> abnormalities 2) (Insertion 2 deleton 3) Updation / modificat

Student id name Branch_code Branch. MOD Branch_name age 18 SCE 20 M. 2 Z New student

2) university 3 1T/



what we do in normalmeter -> decompose -> into multiple 2) Table SRP > Single resposibility principle.



2NF R(ABCD) 2) EAB3 -> P.K A,B > prome attributes, C,D -> Non-pome. =) FD=(B>C) S- Portal dependen $a \rightarrow C$ AB -> D

2NF Table (student project) Project nane, student 1D Boj ID Student Nana heo 589 dvia Jacob Chites 57-6 PO3 556 107 P05 Cloud. Alex 92 P.1c . Student 1D, Proj ID 3 Student Nane FP:3 Student ID -> Project Name. Project ID ->

2NF frm Shdert			
Shdert	Shident ID		Stident Name.
	589	Project ID	0/19
	576 556	POT PO2	Jacob Ava
	592	PUST	alex
Project			
	Vooject ID	Porject Name.	
	P07 P03	Chite 10T	
	P05	Clond,	

- 3NF R(ABC) PK & A3 2 RF Y/ B X 2 スタソ Prme, Nompm. 3 Z Z

B > C - F.D (Transhire dependen) 2) decompose 3NF R2(BC) RI (AB) B C 7 7 2 7 2 .

BCNF 09. Profesor Strd-ID Subject PJ Tava 101 CPP PC 1 D1 Jana P12 102 C.# PC# 103 Tava 104 - one Student can enroll in multiple subjects
- for each subject, a profesior is assigned to a student
- multiple profesion can treach a single suject
- one profesion can treach only one subject.

P.K = ? {Stud-1D}, Subject? (1) Estud_ID, subjet 3 -> Proferm. Profesor -> Subject

Convens Student P-id. Profere subject Java CPP.

