DBMS LAB Assignment-6 NORMALISATION:

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1) The table is not in INF, because the addition to courses contains more than I value for eq: I.D - I courses -> 'OS, DBHS', so as it is, not in INF, it can't be in ZVF2.

Converted table:

		•		
10	Name	Age	location	Courses
1	Sachin	22	Delhi	20
1	Sachin	22	Delhi	DBMS
2.	Kam	22	Janishapur	DAA
2	Ram	22	Jamshedpur	DBHS
3	Mike	23	Chennai	HL
3	Mike	23	chennai	0.5
4	Samler	21	kanglole	DAA
4	Sameer	21	Barglere.	ML
-5	Vijay	22	Humbai.	ML
5	Vijay	22	Humbai	DBMS

The above table is in INF
wine attributes -> ID & Name
Non-prime attributes -> Age, Location, Courses

FP -> 10 -> Age, to cation, Courses					
The second table mentioned in the					
The second table mentioned in the question is in INF.	e constitution de la constitutio				
2) a) This is not in ZNF, because there is					
proctial dependency of Duty-Shift-ID3- Dute	phift				
For a table to be in 2NF, all the non	nkey				
attendates should be functionally depende	nt				
on the entire primary key					
The Priemary tray is Emp-10, Duty	y-sheft				
- ID's But & Duty-Shift-ID's -> Duty-shirt					
Hence partial dependency exists aNF would ke primary key!					
would ke prinary key!					
	7				
Name activisa 11/10	nge				
are non-prime	26				
attributes 3000 1 1 1 Bobby	28				
Storesh	32				
104 Sota	24				
Prindry key					
Duty-shift-ID Duty-shift					
Puty-shice					
y non-mine 2					
attribute promp = 3 for Night					

(b) This is not in 2NF because there enists partial dependency

& project Tp3 -> {proj-Name}

The perinary key is [Emp 1D, project-10]. All the non prime attendets Name, hug. Name, No of hours should completely depend on respectively key that I bloke it dette 2NF would be in the

Her W.

Emp-101	project-14 Name No ofhours
123	Prj-21 Ajay 101
321	Prj-245 charu 15
546	Prj-24 rigest 23
765	Prij -11 , Abhishek 16
{ Enip-10, proj	ect-103 -> primary Key
project -10	691
Prj-21	Speech-system
Prj-45	HR System
11-6-9 Horson	Automatic tickils NLP
E project	-10} -> primary key.

a) Not in 3NF, those exists transitive dendency between fourt-address of & fourt-lock on a non-perimany key, which is fourt-postcode of

3NF would be

cust - 10	Cust Name	Cust-post co de
25	bell	560037
45	Lenono	560046
89 90	Sansung	210067 4500078

E cust - 103 - primary Key

Cust - post code	Cust-Address	Cust-Coz
- wind		1) < 12
560637	white field	Burglore
entractor, las	I - hay hours	C
560046	Marathahalli	Barglore
	at later big	
210067	Bandra	Mumbaie
4500078	, Dethi Central	Delhi

East-postcode? -> privary ky.

Wiscoke 1 450,996

b) Here, there exists transitive denendency so it {contractory = 7 {Fee} There should be no townsitive dependincy in 3NF. Ebuilding 3 -> prûmary key { Contractor, Builler Fee} -> Non-prime 3NF would be 210067 Contractor | Builder Building Prestige Tayer sq. B-2156 B-8765 Sandeep Hisanandani B-4567 Vishaka Tata B-4567 white file broken prinary Key - & contractor, Fee} Contractor Fee Tayor 2567891 Mass | Sanderp | 3567356 30020 Vishaka | 4567990 for 1-10100 } -- > M. want pay