DBMs Assignment-6

X.V.S. Bharadway

the attribute courses contains more

than value for exi ID-1, courses -) The, os'

it is not in 2NF it can't be in 2NF & 3NF

converted table

#D	Name	Age	Location	Courses	
1 10	Sachin	22	Delhi	os	-
1	Sachin	22	Delhi	DBIYS	
2	Ram	22	Jamshedpur	DAA	
2	Ram	22	Jamshedpur	DBNS	
3	Mike-	23	chennai	MI	
3	Mike	23	Chennai	es	
u	Sameer	21	Bengaluru	OAA	
4	Sameer		Bengaluru	ML	
5	visay	. 1	Mumbai	142	
5	vijay	22	Mumbai	DBMS	
			•	1	

- -) The above table is in int
- Non-prime Attributes: 205 name

 Non-prime Attributes: Age & (occation, courses
- => FD -) ID Age, location, courses
- The second table mentioned in the question is in INf
- 2) This is not in 2Nf because there
 is partial dependency { Duty-shift-Idy-)
 Duty-shift for a table to be in
 2Nf all the non-key attributes should
 be functionally dependent on entire
 primary key
- The primary key is & Emp-ID, Outy-shift-IDY

 But & Duty-shift-IDY Duty-shift,

 Hence partial dependency exists

 2NF could be primary key

	Emp-ID1	Duty-shift-JD	Name	Age
•	101	1	Arun	26
	102	2	80664	22
	103	3	suresh	32
	104	1	sita	24
	\$)	

Name, age are non-prime attributes

Duty-shift

Duty-shift

Morning

Afternoon

Night

Duty-shift is non prime attribute.

6) This is not in 2Nf because there exists partial dependency

{ project-IDY -> { proj-Namey

The primary key is { EmpID, project-IDY

All the non-prime attributes Name,

proj-Name, No-ef-hoours should be completely depend on primary key

Emp-ID,	Aroject-ID	Name	No-of-hours	
123 321 546 765	Prj-21 Prj-45 Prj-24 Prj-11	Anay chane Rajesh Abhishek	16	
Etmp-ID, project-Iny -) primary fey				
Project	-ID Proj	-Name		
Prj-21	3 22 7 20 6			
Prj - 45		ech-system	1	
Prj - 24		system	56	
Prj - 11	4	omatic ticke		
[Project-ID] -> primary key				
		in the state of	120002	
515126		AND APDIDO		
		5. b. 1. 23	+ 5 5 -	
		1 1 1		

3) Not in 3Nf there exists transitive
a) dependency between {cust-address}

& Soust-locy on a non-primary

Ley which is { cust-post code }.

310f could se

Cust_ID	Cust-Wane	cust-Postcode
25	Dell	560037
45	Ienovo	560046
89	Acer	210067
90	Sansung	450078

Scust-IDY -) primary key

cust-postco de	Cust_Address	Cust_loc
560037	whitefield	Bangalore
560046	Marathahia((i	Bangalore
210067	Bandra	rumbai
450076	belhi Central	neihi

{ cust-pastrodey -) primary key

b) Here there exists transitive
dependency so it is not in 30f

{ Contractory - Affeey

There should be

There should be no transitive dependency in 310+

& Buildingy -> primary key

{ contractor, Builder, fee} - non-prime attributes

3Nf could se

Building	Contractor	Builder
8-2156	Taylor	Prestige
0-8765	sandeep	Hiranandani
3-4567	vishaka	Tata

primary key - { Contractor, fee }			
contractor	fee		
Taylor	2567891		
sandeep	3567356		
	4567990	7 きんしょうな	
	3	2): 11-02 Full	
· · · · · · · · · · · · · · · · · · ·	10 - 1-1-1-1-	Probable.	
	1 1	22.2	
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