06/04/2	L	at Lab-6 a	*	Pag Dat	ge No.	
	* Assignment - Normalization *					
	Name - Parami D. Mane					
	Name - Param D. Mane R.No 19BCS 121.					
		3.9/1	3 1 COO	are adt as	bI l	
1) 1)	This table is not in Inf because in the 'Course' column has multiple values, but for a table to be in Inf it must contain only atomic value at each row & column. Here the attribute 'Id' is the primary key and condidate key. The attributes					
"Name", Age', Location, course, are non-prime att						
	Id' is H	he prime attr	ribute.			
	The Inf	be,	<u> </u>	Ped 1/2 Ped	Filmo	
		Name Age	Emp. 1D,	: estadietta :	moird	
	Iq	Name	Age	Location.		
	1	Sachin	1-122	Delhi	-not	
	2	Ram	22	Jamsheo	pur	
	3	Mike	23 ,	d sldd Chennai	103 2.1.	
	4	Sameod	21	Bengalu	ru	
	5	VijayoA	224	Mymb		
		36	Anna	tal		
	Id	Course	Pe bby			
	-1	OS CS	1 des mus.	{ Id, Coursely	is the	
	1	DBMS	- ptie	primary k	ey	
	2	DAA		, 0	0	
	2	DBMS	(aI-qm)	1) L-T		
	3	ML	-			
	3	OS			AND THE REAL PROPERTY.	
	4	DAA		1		
	4	ML		100		
	5	ML	100000			
	5	D&MS.				

	Date
ii)	This table is already in 1 nf because here are,
	no multivalued attributes, here Id' is the primary
	key and 'Name', 'Phone', 'State', 'Country' are not
2)	
i)	This is not in 2nf because there is partial
\	dependency of Duty-shift-ID3 -> Duty-shift. For a table to be in 2nf all the non key attributes should be
\ 'zeved.	to be in 2nf all the non key attributes should be
	functionally dependent on the entire primary key. Here the primary key is of Emp-ID, Duty-shift-ID?
	Here the primary key is of Emp-ID, Duty-shift-ID?
	but { Duty-shift_ID} -> Duty-shift
	Hopes Out I I I I I I I I I I I I I I I I I I I
	Hence, Partial dependency exists => Not in 2nf.
	2nd bel, small at torior aligned
	2nd bel, p.K.
	Emp_ID Outy_shift_ID Name Age
	101 1 1 1 1 Aryn 26
	2 102 Jedendo 2 11 1 Bobby 28
	103 3 Suresh 32
	104 1049 -1 Sar page 8ita 24
	[Name Age] are non-prime attributes
	P.K
	Duty-shift-ID Duty-chift Hore Duty-shift
	Morning ic non-prime
	2 9101 Afternoon attribute.
	3 Night
	(x(9) just promise for thispert to

ii)	This is not in 2nt because, the partial dependency						
luc.	mexists! of the and estudiates lesular land						
U	f Project_ID} -> { Proj_Name}						
Los	The primary key is & Emp-ID, Project-ID & All						
ed lalu	the non-prime attributes, 'Name', 'Proj-Name', 'No-of-hours'						
	functionally dependent on the entire primary key.						
- (should completely depend on entire primary key.						
	thinks what a fat thinks what I tank						
	2nf be,						
	Hence, Portial dependency exists X.9 Not in 2.9t						
	Emp_ID Project-ID Name No_of_hours						
	123 Prj-21 Ajay 10						
	301 301 Prj-45thin Huacharu al-gm315						
	546 Roj-24 Rajesh 23						
	765 Prj-11 Abhishek 16						
	30 Surech 32						
	{ Emp-ID, Project-ID} -> P.Key.						
	Project_ID Proj-Name Prj-21 Speech_system						
	Prj-21 Speech_system						
thids of	HRI system						
acuted - 1	Poj-24 Actomate Tickets						
5/4	Prj-III						
	tapies 8						
	{ Project_ID} -> Primary key (P.K.)						

3) i)	This table is not in 3nt because, there exists transitive dependency between { Cust-address } & { Cust-bc}, on a non-primary key which is { Cust-postcode}.					
Tak w	3nf be,					
	P.K west proming of paibling }					
	Cust_ID Cust_name Cust_postcode					
	25 Dell 100 - 5600137					
	45 Lenovo 560046					
	89 Aces 4 210067					
	90 Samsung 4500078					
	Soot to Fredoritas 2					
	: {Cust_ID} -> P.Key.					
	P.K for no ton sldet					
	Cust-postcode Cust-address de Cust-loc.					
	HOR THE					
	560637 Whitefield Banglore					
	5000 46 Marathahalli Banglore					
	3 1 210067 Bandra Bandra Mumbai					
	4500078 Delhi Central Delhi.					
	ptof polodoiv field A					
	{ (ust-postcode}) Primary key (P.K.).					

ii)	This table is not in 3nf because, there exists					
	transitive dependency					
	il doids pol page and and tool ?					
	{ contractor} > { fee }					
	but there should not be transitive dependency in 3 nf.					
	ad das					
	{ Building } -> Primary key.					
	{ Contractor, Builder, fee } -> Non-prime att.					
	{Building } -> {contractor}					
	f Building } — { Buildor?					
	of balang —) of balang					
	{ contractor} -> {fee}					
	(cut In) - PKey					
	Table not in 3nf.					
	is all and be, subspited ghosting this					
	Primary					
	prolphod key biodotald & Fearal					
	related Building latertone Contractor Builder					
1	Amul B-2156 based Taylor Prestige					
	intel B-8765 Sandeep & Hisanandani					
	B- 4567 Vishaka Tata					
	(24) was prompt - Salvetag too ?					

		Page No.
PK		Date
Contractor	fee	
Taylor	2567891	
Sandeep	3567356	
Vishaka	4567990	
Poimary	Key -) { Contractor?	
U	J	