DBMS LAB ASSTGINMENT-6

QI.									
1.	15/14	W. soon	R.		33 (50)				
9)	The	table i	s not	in INF	becau	se the			
	course attribute is non-scalar.								
	Table - 1				Table - 2				
	Id	Name	Age	Location	Id	Kining Course			
	1	sachin	22	Deihi	1	05			
	2	Ram	22	Jamshedpur	1	DBMS			
	3	Mike	23	chennai	2	DAA			
	4	Sameer	21	Bengalunu	2	OBMS			
	S	Vijay	22	Mumbai	3	ML			
					3	OS			
					4	DAA			
					4	ML			
					5	ML			
					5	DBMS			

Primary key is Id : Name, Age, tocation, se course are candidate keys; Id is the prime attribute wheras others are non-prime.

Dependencies: {Id} -> {course}

{Id} -> {course}

{Id} -> {name, Age, Location}

{name} -> {age, Location}

No transitive dependencies because a tuple can be extracted by using just 'Id' attribute.

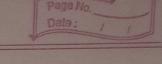
a) The table is already in INF.

b) Primary key is Id candidate key is It all name, Phone & state is prime attribute and name, phone and state are non-prime attribute. c) { Warre Id 3 -> { Name, phone, state, country] 3 Name 3 - & phone, state, country 3 Estate 3 - 3 Country 3. + No transitive dependency present. 1. a) The table is not in 2 NF because "Duty shift" attribute doesn't belong to any key and is not dependent on Fmp_ID & it contains 2 primary keyon.

Table - 1

Fmp_TD vame Age =D Duty_shift_ID Duty_shift 101 + Arun 26 101 1 Morning 102 2 Bobby 162 2 Affermoon 103 3 Night 103 3 suresh 32 104 1 Mosning 104 + Sita 24 Primary key is Emp-ID & Puty-shift-ID, Emp-ID ware, Age & Duty-shift are composite keys, Emp-ID & puty-shift. ID are prime attributes and others are non-prime attributes. e) SEMP_IO3 -> { Outy_shift-ID, Name, Age 3 { Duty-shift-ID} + { Duty-shift} { Name } > { Age }

@2.								
2.	a) The table is not in 2Nf because							
	No of hours is not dependent on Emp_ID							
	Table-1 Table-2							
	DI COLTO P- LO NOT							
	123 Pri-2/1 Ajay Prj-21 Speech Sys. 10							
	321 Prjy45 charu Prj-45 HR System 15							
	546 Pr 24 Rajesh Prj-24 Automate tickets 23							
	765 Prj-N Abhishek Prj-11 NLP 16							
	Emp-ID							
	123							
	321							
	546							
	765							
(4	Emp_ID is Primary key, candidate keys are							
	Emp_ID & Project_ID, prime attributes							
	are Emp_ID & Project-TD Name,							
	Project Name & No. of hours are non-prime							
	attributes.							
	Project-Ip.							
0	Emp-ID3 → EName3							
	{Project-ID3 -> Elrogect Name, No-of-hours}							
	(or nours)							
02								
Q3.	VII . 1 . 2016							
4	a) It is not in 3 NF because fee is transitively dependent on building							
	transitively dependent or builderig							



b)	Primary k	ey is Buildi	ing , Candi	idate Keye	at is	
	non - prime	e attributes	are Contra			
		Table-1		Table - 2		
	Building	Builder	Contractor	1	tor fee	
	B-2156	Prestige	Taylor	Taylor		
	B_8765	Hiranandani	Sandeep	sandee		
	B-4567	Tata	Vishaka	Vishak	a 4567996	
()	Capila	2 0	1	1 1		

- c) & Building 3 -> & Builder, contractor 3 {contractor 3 -> {fee 3}
- 1. a) It is not in 3NF because "Cust-address" & "Cust-loc" is transitively dependent on Cust-postcode.
 - b) Primary key is Cust-ID, prime attributes

 is Cust-ID and non-prime attributes are

 is Cust-Name, Cust-postcode, Cust-address

 Cust-loc

Table-1

(ust-TD (ust-Name (ust-Postcode)

25 Dell 560037

45 lenovo 560046

89 Acer 210067

90 Samsung 4500078

Acer 21006)

90 Samsung 4500078

Cust-Post code Cust-Address Cust-loc

Table-2 560037 white field Bangalore

560046 Marathahali Bangalore

210067 Bandra Mumbai

4500078 Delhi (entral Delhi

e) {Cust-Name, Cust-Postcode}

{cust_Postcode} -) { cust_Address, cust_loc}