Name:syed afeef hasan kazmi, rollno. 19bcs106

The table is not in INF Because the attribute courses contains more than value for egi-ID-1 · courses -) 'OS, DBMS' · SO ON it is not in INF it can't be in 2NI,3KF. converted table (000000. Location Name | Age D 05 Sachin 22 Delhi DBMS Delni 22 Sachin

DAA Janshedpos. 72 2 Row BDBMS Jamshedpur 22 2 Roum ML Chennai 33 7755 23 Mike 05 Chennal mike 23

Bengalusv DAA 21 Sameon Bengaluru ML Samcer 21 ML Mumbai Vijay 22

BBMS. Mumbal Vijay 22

.) The above Table is in INF

) prime Attributes -> # IP & Name.

Non prime -> Age, Location, courges.

7 FD -> ID -> Age, location, courses.

Across The table 2.1 is not in 2NF Because it
is not fully functionally independent as:

Emp-ID > Name, Age.

Emp- ID, Duty-shift - ID -> Duty-shift

Primary Keys -> Emp ID

Candidate Keys -> Emp ID

Prime attributes -> Emp ID Duty Snit ID

honprime -> Name, Age, Duty-shift.

Convented Table: Table 1 (Emp-ID)

Emp-ID	Nam C.	Age.
101	Don	26
102	Bobby	24
103	Suresh	32
104	Sita	24

Table 2:- (Duty Shift - 70)

[EMP-70	Duty Shift. 10	Duty-Shift.
101	1	troming
103	L	Afrennoon.
103	3	Night
104		wornid

Table 2.2 is not is 2NF Benause It is not fully functionally Independent as:-

Emp-ID, Project-ID > Project-Name, no. of hours.

Primary key 3 Emp-ID

cardidate Keys -> Emp-ID, Project-ID

Prime attributes > -11-Nonprime > Nounc, Proj-name, no. of hours.

Converted teble: -

Emp-ID	Name.
123	Ajay :
321	Chani.
546	Rojesh
765	Abhishek

(mato	Project-ID	Proj-Name	no. of house
12.3	pri-21	Speech-System	10
321	P81 -45	HR System	15
546	Prj-24	Rutomate Tickets	73
765	LR7-11	NIP.	16
HARDER CONTRACTOR OF THE PROPERTY OF THE PROPE			

(3) (6) Here there exist transitive dependency, so it is not in 3,NF.

contractor -> fee

There should be no transitive dependency in 3NF. There should.

Building -> primary key.

Contractor, Builder, Fee -> non prime
attributes.

Building J. contractor Building -> Builder. contractor -> Fee.

transitive dependency on Building ID So not in 3NF.

	1 - Landra C	Roilden
Building	contractor	
	Taylor	Prestige
B-2156		<i>miranandani</i>
P,-8765	Sondeep	Milliand
	• • • • • • • •	tada.
B-4567	Vishaka	

Contractor	fee
Taylor	2567891
sundeep	3567356
Vichaka	4567990

(a) Not in 3NF, there exists transitive dependency
hetween fort-address & { cost-loc} on a
non-primary key which is { ost-postcode}.

3NF would be

rast-ID	Cust Name	(ust-portede.
25	DeH	5.600S7
45	Jenor	560046
89	aces	2,0067.
90	Jansung	45 00078.
	70-1031 9	

-

(ust-20-) Primary Key.

Cust - post code	Cust-Address	(USA-Jo
5 60037	whitefield.	Barglosp.
560046	Movathahall;	Bounglose
210067	B ain dra	Mankai
4500078.	Delhi central.	Delhi.

(US+-POSTWODE -> poinary key.