ASSIGNMENT-6

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Branch: CSE

- Convext table to first normal form.
- a) This table is not in INF because course column has multiple attributes. For a table to be in INF it should contain only atomic values.

Here id is the primary key.

Prime Attribute - Id

Non-Prime Attributes - Name, Age, Location-

Functional dependency:

Id -> course, name, age, location. 191

	14		11/19/1	121
Conv	exted Table	3	Kacas)	Course
Id	Name	Age	Location	os
	Sachin	22	Delhi	DBMS
- 1	Sachin	22	Jamshedpur	DAA
+tist2.	1 blu Ram	22	Jamshedpu	DBMS
20/11	Ram	22	chennai	ML
10300	Mike	23	chennai	13705
3/1	Mike	23	Bengaluru	DAA
4	Sameer	21	Bengalur	a ML
	Samee	8 21	Mumbo	: ML
4	Vijay	2.2		
5	Vijay	22	Mumb	al
10050	1111	The link		Para CIN

b) This is already in 1st Normal form (INF) No need to convert as it doesn't have any multiple attributes & unique column names.

2. Convert table to 2NF

a) It is not in 2NF because it is not functionally independent [Here it is Partial Dependency]

Duty-shift-id -> Duty-shift

Primary key - Emp-IA

Prime Attributes - Emp-ID, Duty-shift-ID

Non-Prime Attributes - Name, Age, duty-shift Candidate Keys - EmpID, Duty-Shift_ID

Converted Table :

Table 1 -

Emp-ID	Name	Age
101	Asun	26
102	Bobby	28
103	Suresh	32
104	sita	24

Table 2 -

		;
Emp-ID	Duty-Shift-ID	Duty-Shift
7	(Y)	Morning
tol	,	Afternoon
102		Night
103	3	•
104	12	Morning.
	1	

b) This is also not in 2NF as it is not fully functionally independent. [Partial Dependency here]

Project_ID -> Project_Name, No_of_hours

Emp_ID -> Name

Primary key - Emp-ID

Candidate Keys - Emp-ID, Project_ID

Prime Attributes - Emp-ID, Project_ID

Non-Prime Attributes - Name, Proj-Name,
No-of-hours

Converted Table:

Emp_ID	Name
123	Ajay
3/21	Charu
546	Rajesh
7.65	Abhishe

EMP-10	Project_ID	Proj-Name	No-of-hours
123 321 546 765	Prj-21 Prj-45 Prj-24 Prj-11	Speech-System HR System AutomateTicketic NLP	15

3. a) Here there exist transitive dependency. So it is not in 3 MF.

Transitive dependency:

Cust-postcode -> Cust_loc, Cust_address.

Primary key - Eust_ID

cust-postcode	cust_name	cust_ID
560046	Dell	25
210067	Lenovo	45
4500078	Acex	89
1 82/18/340	Samsung	90

cust-postcode 560037 560046 210067 4500078	Cust-address Whitefield Marathahall Bandra Delhicentral	Cust-loc Banglore Banglore Mumbai Delhi
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Here transitive dependency exists. There should be no transitive dependency for table to be 6) in third Normal form.

building -> contractor, builder contractor -> fee.

Primary key - building

Prime Attributes - building

Non-Prime Attributes - contractor, builder,

fee.

building is transitively dependent on fee. Converted:

Building B-2156 B-8765 B-4567	Contractor Taylor Sandeep Vishaka	Builder Prestige Hiranandani Tata
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contractor	fee
Taylor	2567891
Sandeep	3567356
Vishaka	4567990

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