## I 8t Normal Form

DOCNO > Nome, DOCNO > Address, DOCNO > Phone DOCNO > Department ld, DOCNO > Designation, Designation > charges, Name > Phone

Patient NO > Potient Nome, Patient NO > CNIC, Patient NO > Phone Patient NO > DOC no.

For first normal form each cell to be single uclued but here those, Patient No. Patient Name, Phone, Bed No all hove multiplied

so, we break the table.

## Table 1: Doctor-Porto

DOC	sme	Address	Department	Designation	bex bex
D1	Dr. Nodeen	Abc 123	Neurology	Dedfer802	5000
D2	Dr. Noderm	Kb13	Orthopedie	6xdf8780x	2000
<b>D</b> 4	Dr. Erum	AK123	ENT Neurology	USA- 6204	2000
D5	Do Hyfelz	Nd123	skin losthopedic	Aste-Ped	3000

			ste 31:			1		
Table 2: [Doctor_phone]	Pa	Patient NO	Policut	ENIC	Phone	Room	type type	Bed
NORTH DOC NO	Phono						-	-
	0333-123 21	PI	Kanid	13312-1	042-1	22	Houng	81
D1 D2	0334-124	P1	Kahid	123/184	042-1	R5	special	88
D1 P2 D4	0300-123	P5	Ahmed	12345-2	042-2			
25	0321-124	67	Anum	12345-3	142-3	LIEN		NIL
Toble 2: 13 Only 2 columns Docno -> phono So, 8+ is in 1st normal No portiol departences No transitiv dependences No transitiv dependence Zrd Normal torm any super key determine	A so it is in your		•					*

but DOC, Designation -> Name DOC, Designation -> Address DOC, Designation -> Deportment

Designation -> charge Perhour.

table I: - Doctor-info.

	Dr. Hofes Dr. Eenn Dr. Yogesh Yows	Abc123 Kb13 AK123	Departmentic	Designation Professor Professor Astt. Prof Astt. Prof
--	---	-------------------------	--------------	---

Table I charge table

perignation	charge perhour.
brokerson	8000
Professor	6000
USA- brof	3000
ArA-bed	3000

In this Partial dependency wails occor so I break the table because

DOC, Designation is condicte key.

Designation etself determines Non prime attr.

Table 3 [Potient-into

Patient NO > Patient Name Patient NO > Patient DONIC Patient No > Phone

DOC, Patient NO -> ROOM no DOC, Patient NO > Room type DOC, Patient NO > Bed no.

Here is the Portial dependiency so I break the table

1825		
1025	-	0.0
	1	10 Dec
		20.00
1000		1000

noticud	patient Name	CHIC	Phone-
P1 P5 P7	Mahied Arum	12345-1	1

DOC	Patient NO	Room	ROOM	Red
DI	P1	R2	Normal	BI
BI	64	lika	lorenol	
2	Py	R2	Normal	81
D2	P7	Ru	two bed	BS
22	Pa	RY	Two bed	137
<b>D</b> 4	PI	RS	special	B8
D5	P13	RG	special	89

3rd Normal born.

In Doctor-into table is in Bed Normal form and in BENF also because all the fields are determined only by adoptive keep i.e Doc no determined all the

This table also in [BCNF]

boytient into terple is ongo in 3rd young form peconse there is no only transative dependency.

Patient\_into table is also in BCNF because patient\_no determine all field.

Patiend-indo-room is also in 3 NF because their is no transitue dependency

Polies.

Patient\_info-room is also in BCNF beause. all the field depend upon (DOCNO, Potient No)