

BCNF(Boyce Code Normal Form)

- Introduced to overcome the limitations of 3NF.
- 3NF is inadequate (insufficient) in the situation
 - When a table has multiple candidate keys
 - When candidate keys are composite in nature
 - When candidate keys are overlapping

Decomposition of table using BCNF

Patient Details

Patient No	Patient Name	Appointment Id	Time	Doctor
1	A	0	9:00	D1
2	B	0	9:00	D2
3	C	1	10:00	D3
4	D	0	13:00	D4
5	E	1	14:00	D5

Patient Details 1

Patient No	Time	Doctor
1	9:00	D1
2	9:00	D2
3	10:00	D3
4	13:00	D4
5	14:00	D5

Patient Details 2

Patient No	Patient Name	Appointment Id
1	A	0
2	B	0
3	C	1
4	D	0
5	E	1