

Normalization

Table Patient

Attributes are

P-ID P-Name - P-Age - P-gender P-area P-phone P-PcrResult
P-oxygen P-selfquarntined P-quarantinedays H-ID
P-heart P-oxygen P-Ventilator P-appount- D-ID

1-NF form

This table is in 1-NF form already
as

- Atomic value
- No repeating groups.

2-NF form.

H-ID & D-ID not dependent on
P-ID (Primary key)

We will remove them from patient table
and create separate tables of
Doctor and Hospital.

Table 2	
P-ID	H-ID

Table 1	
P-ID	P-Name

Table 3

P-ID

D-ID

3-NF form.

- No transitive dependencies.

So Already in 3-NF form.

Table Hospital

Attributes are .

H-ID , H-Name , H-doctor-num .

H-ventilatorium H-oxygen H-area .

1-NF form .

- Atomic Values .
- No repeating groups .

Already in 1-NF form .

2-NF form .

H-area not dependent on H-ID
Remove H-area from Table 1 .

Table 2

H-ID

H-area

Table 1

H-ID, H-Name

3-NF form

No transitive dependencies.

Already in 3-NF form.

Table Doctor

Attributes are.

D-ID , D-name , D-age , D-grade

D-phone . D-per-sonal D-per-date H-ID

1-NF form.

Already in 1-NF

- Atomic values
- No repeating groups

2-WF form.

H-ID doesn't depend on primary
key D-ID

so split into two tables.

Table 2	
H-ID	D-ID

Table 1	
D-ID	Docume

3-NF

no transitive dependencies

so already in 3-NF