

Q: 4

Functional dependency: -

is a relationship b/w two attributes typically b/w PK and other non-key attributes within a table.

$A \rightarrow B$

B is functionally dependent on attribute A.

In the given figure if we look at

Drug.no, Name, Description, Dosage

Drug.no \rightarrow Name \rightarrow Description \rightarrow Dosage
having values repeated.

So As,

(Drug.no) is candidate key

Drug.no = (Name, Description, Dosage)

So the value repetition in these columns are

(partial relations.)

Drug no	Name	Description	Dosage
10 223	morphine	Pain killer	10mg/ml
10 334	Tetracycline	Antibiotic	0.5mg/ml
10 223	Morphine	Pain killer	10mg/m

\rightarrow Partial relations

So this is partial function dependency.

full function dependency
is actually 2nd Normal form.
~~So divide it~~

So there should be no
partial dependency in
the relation.

for this we divide table.

