



Patient (p-id, p-name, age, weight, gender, blood-group, total-charges, p-contact, p-address)

Doctor (d-id, d-name, dept-id, d-contact, salary, booked)

* Appointment (p-id, d-id, A-id, blood-pressure, emergency-level, Initial-visit-date, last-visit-date, disease-name)

Medication (Aid, Medicine-Name, dosage, price)

Diagnostic-test (A-id, Test-Name, lab-No, Time, result)

Laboatory (lab No, Booked)

Disease (Disease-Name, Dept-id)

Department (Dept-Id, Dept-Name)

Availability (d-id, start-time, end-time)

* Admit (Ward-No, discharge-date, admit-date, bed-no, p-id)

Ward (Ward-No, Max-capacity, Remaining-capacity)

Note : '*' denotes relation

'_' denotes primary Key

Patient Diagnostic-Test

Aid \rightarrow Test-Name

Test-Name \rightarrow lab No.

But CK is (Aid, Test-Name)

because there can be multiple instances of test-name for the same appointment-id.

Decomposed
Tables

DT1 (Aid, Test-Name)

DT2 (Test-Name, lab No.)

\leftarrow (Not in BCNF)

Admit

2 possible candidate Keys (discharge-date, pid)

& (admit-date, pid)

Medication

Aid \rightarrow Medicine-Name

Medicine-Name \rightarrow Price

Aid \rightarrow Dosage

Decomposed Tables

M1 (Aid, Medicine-Name, ~~Price~~ Dosage)

M2 (Medicine-Name, Price)