HOSPITAL MANAGEMENT SYSTEM

FUNCTIONAL DEPENDENCIES

1) **Employee:**   **BCNF**
   EID → Ename
   EID → DOB
   EID → DOJ
   EID → Salary
   EID → Qualification

2) **Contact:**   **BCNF**
   EID → Contact

3) **Doctor_Type:**   **BCNF**
   Type_name → Fee

4) **Stay_charges:**   **BCNF**
   (PID, Ward_No) → Stay_charges
   (PID , Ward_No) → Bill_No

5) **Appointment_With: BCNF**
   Appointment_No → DID

6) **Appointment:**   **BCNF**
   Appointment_No → Appointment_Date

7) **Doctor:**   **BCNF**
   DID → EID
   DID → Type
   DID → Operation_AdvisoryID

8) **Ward:**   **BCNF**
   Ward_Number → Ward_Capacity
   Ward_Number → Charges

9) **Available_Medicine: BCNF**
   Medicine_ID → M_Rate
   Medicine_ID → M_Name

10) Available_Tests: **BCNF**

$$TID \rightarrow T\_Rate$$
$$TID \rightarrow T\_Name$$

11) Available_Operations: **BCNF**

$$OP\text{-}ID \rightarrow OP\_Name$$
$$OP\_ID \rightarrow OP\_Rate$$

12) Patient: **BCNF**

$$PID \rightarrow Patient\_Type$$
$$PID \rightarrow P\_Name$$
$$PID \rightarrow Ward\_No$$
$$PID \rightarrow Gender$$
$$PID \rightarrow Admit\_Form$$
$$PID \rightarrow Admit\_To$$
$$PID \rightarrow Age$$

13) Visitors: **BCNF**

$$Visitor\text{-}ID \rightarrow Visitor\_Name$$
$$Visitor\text{-}ID \rightarrow Stay\_To$$
$$Visitor\text{-}ID \rightarrow Stay\_From$$

14) Reports: **BCNF**

$$(Report\_Date, PID, DID) \rightarrow Remarks$$
$$(Report\_Date, PID, DID) \rightarrow Operation\_AdvisoryID$$

15) Test_Bill: **BCNF**

$$(Test\_Date, PID) \rightarrow Test\_Amount$$
$$(Test\_Date, PID) \rightarrow Bill\_no$$

16) Medicine_Bill: **BCNF**

$$(Prescription\_Date, PID) \rightarrow Medicine\_Amount$$
$$(Prescription\_Date, PID) \rightarrow Bill\_No$$

17) Bill: **BCNF**

$$Bill\_No \rightarrow Bill\_Date$$
$$Bill\_No \rightarrow Amount$$

18) Test_Advisory: **BCNF**

$$\{Test\_Date, TID, PID\} \rightarrow DID$$

{Test_Date, TID, PID} -> Test_Report

19) Medicine_Advisory: BCNF

{Prescription_Date, MID, PID} -> DID

{Prescription_Date, MID, PID} -> Med_Qty

20) Operations_Advisory: BCNF

{Operations_AdvisoryID} -> PID

{Operations_AdvisoryID} -> OID

{Operations_AdvisoryID} -> Ops_Date

21) Operation_Bill: BCNF

{Operations_AdvisoryID} -> PID

{Operations_AdvisoryID} -> Bill_No

{Operations_AdvisoryID} -> Operations_Bill_Date