

ADMISSION PROCEDURE

UNF

ADMISSION_PROCEDURE (patientID, patientName, admissionDate, doctorID, doctorName, {procCode, procName, procCharge, reqDoctorID, reqDoctorName, perfDoctorID, perfDoctorName, procDate, {itemCode, itemDesc, itemQuant, itemPrice, itemTotalCharge}, extraTotalCharge})

1NF

ADMISSION (patientID, admissionDate, patientName, doctorID, doctorName)

PROCEDURE (patientID, procDate, procCode, procName, procCharge, reqDoctorID, reqDoctorName, perfDoctorID, perfDoctorName, extraTotalCharge)

ITEM (patientID, procDate, itemCode, itemDesc, itemQuant, itemPrice, itemTotalCharge)

Dependency Diagrams

patientID, admissionDate → doctorID (FULL)

patientID → patientName (PARTIAL)

doctorID → doctorName (TRANSITIVE)

patientID, procDate → procCode, reqDoctorID, perfDoctorID, extraTotalCharge (FULL)

procCode → procName, procCharge (TRANSITIVE)

reqDoctorID → reqDoctorName (TRANSITIVE)

perfDoctorID → perfDoctorName (TRANSITIVE)

patientID, procDate, itemCode → itemQuant, itemTotalCharge (FULL)

itemCode → itemDesc, itemPrice (PARTIAL)

2NF

PATIENT (patientID, patientName)

ADMISSION (patientID, admissionDate, doctorID, doctorName)

PROCEDURE (patientID, procDate, procCode, procName, procCharge, reqDoctorID, reqDoctorName, perfDoctorID, perfDoctorName, extraTotalCharge)

ITEM (itemCode, itemDesc, itemPrice)

EXTRA ITEM (patientID, procDate, itemCode, itemQuant, itemTotalCharge)

3NF

PATIENT (patientID, patientName)

DOCTOR (doctorID, doctorName)

ADMISSION (patientID, admissionDate, doctorID)

PROCEDURE INFORMATION (procCode, procName, procCharge)

PROCEDURE (patientID, procDate, procCode, reqDoctorID, perfDoctorID, extraTotalCharge)

ITEM (itemCode, itemDesc, itemPrice)

EXTRA ITEM (patientID, procDate, itemCode, itemQuant, itemTotalCharge)

NURSE

UNF

NURSE (nurseID, nurseFName, nurseLName, nursePhone, nurseCert, {wardCode, wardName, startDate, endDate})

1NF

NURSE (nurseID, nurseFName, nurseLName, nursePhone, nurseCert)

ALLOCATION (nurseID, startDate, endDate, wardCode, wardName)

Dependency Diagrams

nurseID → nurseFName, nurseLName, nursePhone, nurseCert (FULL)

nurseID, startDate → endDate, wardCode (FULL)

wardCode → wardName (PARTIAL)

2NF

NURSE (nurseID, nurseFName, nurseLName, nursePhone, nurseCert)

ALLOCATION (nurseID, startDate, endDate, wardCode, wardName)

WARD (wardCode, wardName)

3NF

NURSE (nurseID, nurseFName, nurseLName, nursePhone, nurseCert)

ALLOCATION (nurseID, startDate, endDate, wardCode, wardName)

WARD (wardCode, wardName)

COLLECTED 3NF RELATIONS

PATIENT (patientID, patientName)

DOCTOR (doctorID, doctorName)

ADMISSION (patientID, admissionDate, doctorID, doctorName)

PROCEDURE INFORMATION (procCode, procName, procCharge)

PROCEDURE (patientID, procDate, reqDoctorID, perfDoctorID, extraTotalCharge)

ITEM (itemCode, itemDesc, itemPrice)

EXTRA ITEM (patientID, procDate, itemCode, itemQuant, itemTotalCharge)

NURSE (nurseID, nurseFName, nurseLName, nursePhone, nurseCert)

ALLOCATION (nurseID, startDate, endDate, wardCode, wardName)

WARD (wardCode, wardName)