

UNF

ADMISSION: (patient_id, date of admission, time_of_admission, patient_name, sup_doctor_id, sup_doctor_name, (procedure_code, procedure_name, Req_id, req_name, carri_id, carri_name, carri_date, carri_time, procedure_charge), (item_code, item_descri, item_quan, item_charge))

1NF

ADMISSION: (patient_id, date of admission, time_of_admission, patient_name, sup_doctor_id, sup_doctor_name)

PROCEDURE: (carri_date, carri_time, procedure_code, procedure_name, req_id, req_name, carri_id, carri_name, procedure_charge, patient_id)

ADDITIONAL ITEM: (procedure_code, item_code, item_descri, item_quan, item_charge)

Dependency diagram:

patient_id → patient_name (PRATIAL)

procedure_code → procedure_name (PARTIAL)

item_code → item_descri, item_charge (PARTIAL)

patient_id, date_of_admission, time_of_admission → patient_name, sup_doctor_id, sup_doctor_id, sup_doctor_name (FULL)

patient_id, procedure_code → procedure_name, req_id, req_name, carri_id, carri_name, carri_date, carri_time, procedure_charge (FULL)

procedure_code, item_code → item_descri, item_quan, item_charge (FULL)

sup_doctor_id → sup_doctor_name (TRANSITIVE)

req_id → req_name (TRANSITIVE)

carri_id → carri_name (TRANSITIVE)

2NF:

ADMISSION: (patient_id, date of admission, time_of_admission, sup_doctor_id, sup_docotor_name)

PROCEDURE: (carri_date, carri_time, procedure_code, req_id, req_name, carri_id, carri_name, patient_id, procedure_charge)

ADDITIONAL ITEM: (procedure_code, item_code, item_quan)

PATIENT: (patient_id, patient_name)

PROCEDURE DETAILS: (procedure_code, procedure_name)

ITEM DERAELS: (item_code, item_descri, item_charge)

3NF:

ADMISSION: (patient_id, date_of_admission, time_of_admission, sup_doctor_id)

PROCEDURE: (patient_id, procedure_code, req_id, carri_id, carri_date, carri_time, procedure_charge)

ADDITIONAL ITEM: (procedure_code, item_code, item_quan)

PATIENT: (patient_id, patient_name)

PROCEDURE DETAILS: (procedure_code, procedure_name)

ITEM DETAILS: (item_code, item_descri, item_charge)

SUPERVISING DOCTOR: (sup_doctor_id, sup_doctor_name)

REQUESTED DOCTOR: (req_id, req_name)

CARRIED OUT DOCTOR: (carri_id, carri_name)

UNF

NURSE (nurse_id, first_name, last_name, contact_phone, certified, (ward_code, ward_name, data_assigned, data_completed))

1NF

NERSE: (nurse_id, first_name, last_name, contact_phone, certified)

WARD_ASSIGN: (nurse_id, ward_code, date_assigned, ward_name, date_completed)

Dependency diagram:

nurse_id → first_name, last_name, contact_phone, certified (FULL)

nurse_id, ward_code, date_assigned → ward_name, date_completed (FULL)

ward_code → ward_name (PARTIAL)

2NF

NERSE: (nurse_id, first_name, last_name, contact_phone, certified)

WARD_ASSIGN: (nurse_id, ward_code, date_assigned, date_completed)