

2Q) Relation mapping

Patients (Patient_ID, name, phone_num, address, nurse_id, medication_name, medication_amount, room_number, num_nights)

Primary key : {Patient_ID}

Foreign key : { nurse_id REFERENCES NURSES(nurse_id) , room_number REFERENCES ROOMS(room_number) }

Health_records(health_id, disease,status, date, description, patient_id)

primary key : {health_id}

Foreign key : { patient_id REFERENCES PATIENTS(patient_id)}

Invoices(invoice_id, instruction_fee, room_fee, patient_id)

primary key : {invoice_id}

Foreign key :{ patient_id REFERENCES PATIENTS(patient_id) }

Payments(payment_id, amount, date, patient_id)

primary key : {payment_id}

Foreign key : { patient_id REFERENCES PATIENTS(patient_id) }

Physicians(physician_id, name, phone_num, field, address, certification_num)

Primary key : { physician_id }

Instructions(Instruction_code, description, fee)

Primary key : { Instruction_code }

Nurses(nurse_id, address, name, phone_num, certification_num)

Primary key : { nurse_id }

Rooms(room_number, capacity, fee)

Primary key :{ room_number }

Invoice_payments(patient_id, invoice_id, payment_id)

Primary key : {patient_id, invoice_id, payment_id }

Foreign key : { patient_id REFERENCES PATIENTS(patient_id), invoice_id
REFERENCES INVOICES(invoice_id), payment_id REFERENCES
PAYMENTS(payment_id) }

Monitored(patient_id, physician_id, duration)

Primary key : { patient_id, physician_id}

Foreign key : { patient_id REFERENCES PATIENTS(patient_id), physician_id
REFERENCES PHYSICIANS(physician_id) }

Orders(patient_id, instruction_code, physician_id, order_date)

Primary key : { patient_id, instruction_code, physician_id }

Foreign key : { patient_id REFERENCES PATIENTS(patient_id), instruction_code
REFERENCES INSTRUCTIONS(instruction_code), physician_id REFERENCES
PHYSICIANS(physician_id) }

Executed(instruction_code, nurse_id, date)

Primary key : { instruction_code,nurse_id }

Foreign key : { instruction_code REFERENCES INSTRUCTIONS(instruction_code),
nurse_id REFERENCES NURSES(nurse_id) }