PHASE 3: Database Logical Design & SQL

SECD2523 - 08 Database

SEMESTER I, SESSION 2023/2024

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Group name: 6G

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1.0 Introduction

A physiotherapy clinic system serves as a comprehensive online platform that allows people to access services, online medical resources and databases to know more about their health conditions and treatments from anywhere with internet connectivity. It has made our lives easier and more convenient than in the past by eliminating the need for physical presence. This includes booking appointments for consultants, treatment, and supplements.

One of the primary benefits of this system lies in its capability to facilitate various essential tasks online. Patients can seamlessly book appointments for consultations, treatments, and supplements without needing to visit the clinic physically. This convenience significantly improves the overall patient experience, especially for individuals facing challenges in traveling to the clinic due to distance or physical limitations.

However, despite the system's considerable advancements, there exist several persistent issues that hinder its optimal functionality. The current system encounters occasional slowdowns, impacting its overall efficiency. Moreover, while the system does offer online booking services, it lacks friendly reminders and digital feedback forms, essential for enhancing patient engagement and service improvement.

Understanding these deficiencies, our team has embarked on an in-depth study focused on enhancing the existing physiotherapy clinic system at PKU UTM. Our objective is to address these challenges comprehensively, aiming to revamp the clinic's operations and optimize patient experiences. We aspire to bridge the existing gaps by proposing significant enhancements across various aspects of the healthcare system at PKU UTM. These enhancements include but are not limited to, simplifying appointment booking, introducing friendly reminders, implementing digital feedback mechanisms, and addressing system slowdowns.

Our strategy prioritizes aligning the system with modern healthcare demands and using the most recent technological breakthroughs. By optimizing system functionality, automating essential processes, and placing a strong emphasis on patient-centric care, our goal is to create a more efficient, accessible, and patient-friendly healthcare environment at PKU UTM. This initiative aims to cater to the diverse needs of patients while facilitating a seamless and satisfactory healthcare experience for all.

2.0 Overview of project

In phase 3 of the project, the focus will be on updating the business rule and data dictionary, as well as enhancing the conceptual ERD to improve the efficiency and effectiveness of the physiotherapy clinic's database system. The reviewing and improving ensure the system align with the objectives of the proposed system. The logical ERD builds upon the conceptual design by translating it into a more detailed schema and developed based on the existing data processes, business rules, and transaction requirements identified in the previous phases. Both of the conceptual and logical ERD will be updated to correct any identified issues or inefficiencies in the current database structure.

Relational DB Schemas are essential for organizing data into tables, defining relationships between tables, and enforcing data integrity through constraints. It presents the finalized schemas after the normalization process. The organized tables display their relationships, keys, and dependencies, reflecting the improved structure resulting from the normalization process.

Additionally, we will also explore the possibility of integrating new features and functionalities into the system, such as online appointment booking, automated reminders, and digital feedback forms. It will not just improve the patient's experience but also optimize administrative procedures and enhance overall effectiveness. Normalization is a process aimed at eliminating data redundancy in databases by organizing and structuring the data into well-structured tables. It ensures that data is stored in a consistent and logical manner, reducing data redundancy and improving the overall performance of the database system.
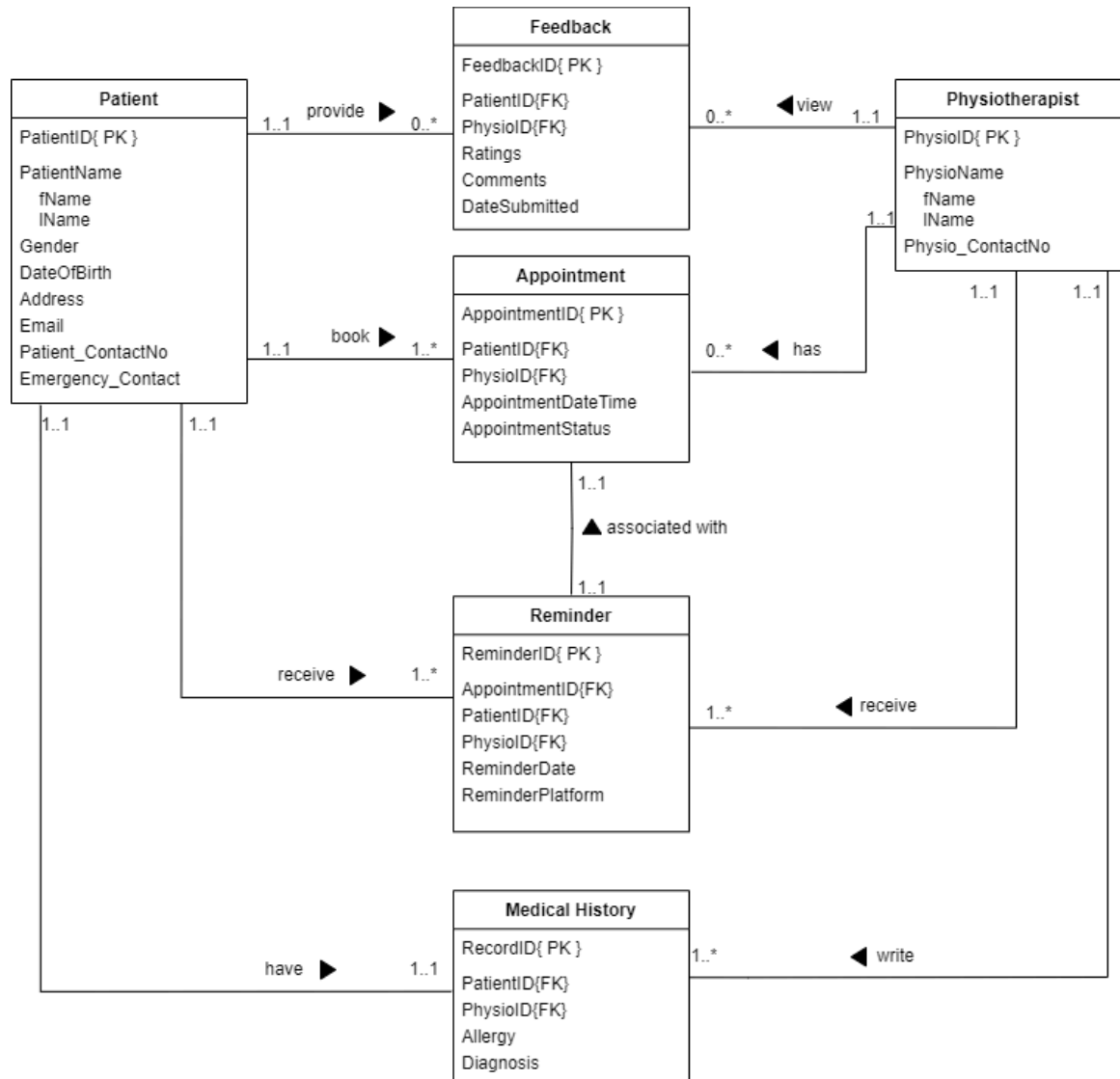
Lastly, the implementation stage is important in this project, involving the hands-on use of SQL commands to build and control the database. This stage includes using Data Definition Language (DDL) commands to create tables, define indexes, and set up database structures, as well as Data Manipulation Language (DML) commands for tasks such as inserting, updating, and deleting data. It is a critical step in the project, as it involves translating the conceptual and logical designs into an actual functioning database system.

3.0 Database conceptual design

3.1 Updated business rule

1. The system should automatically send appointment reminders to patients via email or SMS before the appointment within 3 days prior to the scheduled date and time.

2. The system identifies cases for the receptionist to proactively contact and reschedule if a patient misses two consecutive appointments, ensuring proactive patient engagement.

3. Patient records are stored securely for a minimum of 7 years after the last appointment in compliance with healthcare regulations, after which they are anonymized or securely deleted.

4. Each physiotherapist can manage up to three appointments per hour, ensuring sufficient time for personalized care and preventing practitioner overload.

5. A physiotherapist must create a treatment plan for each patient within 48 hours of the initial consultation.

6. Invoices for services rendered are generated within 24 hours of the appointment, with a 15-day payment window. Unpaid bills result in automatic reminders at 7-day intervals.

7. Users with administrative privileges can access compiled feedback reports, enabling the clinic to assess overall patient satisfaction and individual practitioner performance regularly.

8. The physiotherapists are able to view the feedback to follow up with the concerned patient regarding their experience or concerns.

9. Each patient can schedule multiple appointments.

10. Patients should have control over their data privacy and can choose to share or withhold specific information.

3.2 Conceptual ERD

Feedback
FeedbackID{ PK }
PatientID{FK}
PhysioID{FK}
Ratings
Comments
DateSubmitted

Patient
PatientID{ PK }
PatientName
  fName
  lName
Gender
DateOfBirth
Address
Email
Patient_ContactNo
Emergency_Contact

Physiotherapist
PhysioID{ PK }
PhysioName
  fName
  lName
Physio_ContactNo

Appointment
AppointmentID{ PK }
PatientID{FK}
PhysioID{FK}
AppointmentDateTime
AppointmentStatus

Reminder
ReminderID{ PK }
AppointmentID{FK}
PatientID{FK}
PhysioID{FK}
ReminderDate
ReminderPlatform

Medical History
RecordID{ PK }
PatientID{FK}
PhysioID{FK}
Allergy
Diagnosis

provide — 1..1 / 0..*
view — 0..* / 1..1
book — 1..1 / 1..*
has — 0..*
associated with — 1..1 / 1..1
receive — 1..1 / 1..*
receive — 1..*
have — 1..1 / 1..1
write — 1..*

4.0 DB logical design

4.1 Logical ERD

Step 1: Strong Entity

1. Guest (**GuestID**, fName, lName, ContactNo)
2. Appointment (**AppointmentID**, PatientID, PhysioID, AppointmentDateTime, AppointmentStatus)
3. Reminder (**ReminderID**, AppointmentID, PatientID, PhysioID, ReminderDate, ReminderPlatform)
4. MedicalHistory (**RecordID**, PatientID, PhysioID, Allergy, Diagnosis)
5. Feedback (**FeedbackID**, PatientID, PhysioID, Ratings, Comments, DateSubmitted)

Step 2: Weak Entity

1. Patient *(PatientID)*, Gender, DateOfBirth, Address, Email, Emergency_Contact, fName, lName, ContactNo)
2. Physiotherapist (*PhysioID*, fName, lName, ContactNo)

Step 3: One-to-many (1:*) binary relationship

1. Relationship: Patient book appointment

    Parent → Patient   Child → Appointment

    Patient (*PatientID*, Gender, DateOfBirth, Address, Email, Emergency_Contact, fName, lName, ContactNo)

    Appointment (**AppointmentID**, *PatientID, PhysioID*, AppointmentDateTime, AppointmentStatus)

2. Relationship: Patient receive reminder

    Parent → Patient   Child → Reminder

    Patient (*PatientID*, Gender, DateOfBirth, Address, Email, Emergency_Contact, fName, lName, ContactNo)

    Reminder (**ReminderID**, *AppointmentID, PatientID, PhysioID,* ReminderDate, ReminderPlatform)

3. Relationship: Patient provide feedback

    Parent → Patient   Child → Feedback

    Patient (*PatientID*, Gender, DateOfBirth, Address, Email, Emergency_Contact)

Feedback (**FeedbackID**, *PatientID, PhysioID*, Ratings, Comments, DateSubmitted)

4. Relationship: Physiotherapist has appointment

Parent → Physiotherapist   Child → Appointment

Physiotherapist (*PhysioID*, fName, lName, ContactNo)

Appointment (**AppointmentID**, *PatientID, PhysioID*, AppointmentDateTime, AppointmentStatus)

5. Relationship: Physiotherapist receive reminder

Parent → Physiotherapist   Child → Reminder

Physiotherapist (*PhysioID*, fName, lName, ContactNo)

Reminder (**ReminderID**, *AppointmentID, PatientID, PhysioID,* ReminderDate, ReminderPlatform)

6. Relationship: Physiotherapist view feedback

Parent → Physiotherapist   Child → Feedback

Physiotherapist (*PhysioID*, fName, lName, ContactNo)

Feedback (**FeedbackID**, *PatientID, PhysioID*, Ratings, Comments, DateSubmitted)

7. Relationship: Physiotherapist write MedicalHistory

Parent → Physiotherapist   Child → MedicalHistory

Physiotherapist (*PhysioID*, fName, lName, ContactNo)

MedicalHistory (**RecordID**, PatientID, PhysioID, Allergy, Diagnosis)

Step 4: One-to-one (1:1) binary relationship

1. Relationship: Patient have medical history

Mandatory participation on both sides

Patient_MHistory (**RecordID**, *PhysioID*, Allergy, Diagnosis, *PatientID*, Gender, DateOfBirth, Address, Email, Emergency_Contact, fName, lName, ContactNo,)

*Relation MedicalHistory no longer exist

*Relation Patient is renamed as **Patient_MHistory**

2. Relationship: Reminder associated with appointment

Mandatory participation on both sides

Appointment_Reminder **(AppointmentID**, *PatientID, PhysioID*, AppointmentDateTime, AppointmentStatus, ReminderID, *AppointmentID, PatientID, PhysioID,* ReminderDate, ReminderPlatform)
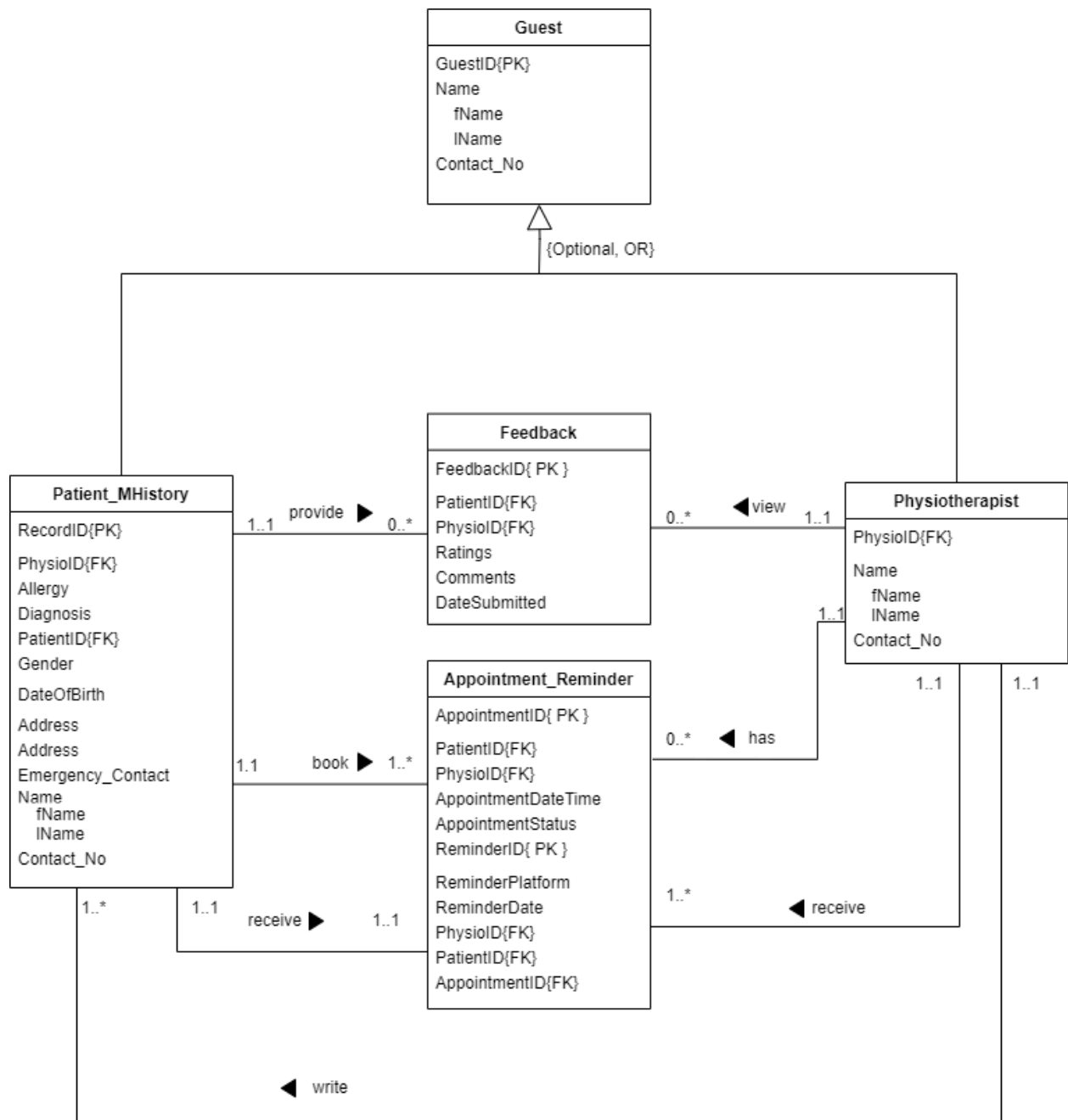
Step 5: Superclass/ subclass relationship

1. Guest (**GuestID**, fName, lName, Contact_No)

   Patient_MHistory (**PatientID**, Gender, DateOfBirth, Address, Email, Emergency_Contact, RecordID, *PhysioID*, Allergy, Diagnosis, fName, lName, Contact_No)

   Physiotherapist (**PhysioID**, fName, lName, Contact_No)

Finalize

1. Guest (**GuestID**, fName, lName, ContactNo)

2. Patient_MHistory (**PatientID**, Gender, DateOfBirth, Address, Email, Emergency_Contact, RecordID, *PhysioID*, Allergy, Diagnosis, fName, lName, Contact_No)

3. Physiotherapist (**PhysioID**, fName, lName, Contact_No)

4. Appointment_Reminder (**AppointmentID**, *PatientID, PhysioID*, AppointmentDateTime, AppointmentStatus, ReminderID, *AppointmentID, PatientID, PhysioID,* ReminderDate, ReminderPlatform)

5. Feedback (**FeedbackID**, *PatientID, PhysioID*, Ratings, Comments, DateSubmitted)

Remark: <u>Underlined with Bold**</u> words is Primary Key.

Italic words is Foreign Key.

Guest

GuestID{PK}
Name
  fName
  lName
Contact_No

{Optional, OR}

Feedback

FeedbackID{ PK }
PatientID{FK}
PhysioID{FK}
Ratings
Comments
DateSubmitted

Patient_MHistory

RecordID{PK}

PhysioID{FK}
Allergy
Diagnosis
PatientID{FK}
Gender
DateOfBirth

Address
Address
Emergency_Contact
Name
  fName
   lName
Contact_No

Physiotherapist

PhysioID{FK}
Name
  fName
  lName
Contact_No

Appointment_Reminder

AppointmentID{ PK }
PatientID{FK}
PhysioID{FK}
AppointmentDateTime
AppointmentStatus
ReminderID{ PK }
ReminderPlatform
ReminderDate
PhysioID{FK}
PatientID{FK}
AppointmentID{FK}

1..1   provide   0..*

0..*   view   1..1

1..1

0..*   has

1..1

1.1   book   1..*

1..1

1..1   receive   1..1

1..*   receive

1..*

write

10

4.2 Updated Data Dictionary

Entity	Attribute	Description	Data Type & Data Length	Constraint

Guest	Name
	  fName
	  lName
		First name of user
		Last name of user
			VARCHAR2(20)
			VARCHAR2(20)
				NOT NULL
				NOT NULL

	ContactNo	Contact number of user	VARCHAR2(15)	NOT NULL
	GuestID	Type of users	VARCHAR2(20)	PRIMARY_KEY
Patient	PatientID	Unique ID for patient	VARCHAR2(20)	FOREIGN_KEY (PatientID) REFERENCES Guest (GuestID)
	Gender	Gender of patient	VARCHAR2(20)	NOT NULL
	DateOfBirth	Date of birth of patient	DATE	NOT NULL
	Address	Address of patient	VARCHAR2(60)	NOT NULL
	Email	Email of patient	VARCHAR2(40)	NOT NULL
	Emergency_Contact	Emergency contact of patient	NUMBER(15)	NOT NULL

	Name
	  fName
	  lName
		First name of user
		Last name of user
			VARCHAR2(20)
			VARCHAR2(20)
				NONE
				NONE

	ContactNo	Contact number of user	VARCHAR2(15)	NONE
Appointment	AppointmentID	Appointment ID of an appointment	VARCHAR2(20)	PRIMARY_KEY
	PatientID	Unique ID for patient	VARCHAR2(20)	FOREIGN_KEY (PatientID) REFERENCES Guest (GuestID)
	PhysioID	Unique ID for physiotherapist	VARCHAR2(20)	FOREIGN_KEY (PhysioID) REFERENCES Guest (GuestID)
	AppointmentDateTime	The date and time of appointment made	TIMESTAMP	NONE
	AppointmentStatus	The status of current appointment	VARCHAR2(10)	NONE

Reminder	ReminderID	Unique ID for reminder	VARCHAR2(20)	PRIMARY_KEY
	AppointmentID	Unique ID for appointment	VARCHAR2(20)	FOREIGN_KEY (AppointmentID) REFERENCES Appointment (AppointmentID)
	PatientID	Unique ID for patient	VARCHAR2(20)	FOREIGN_KEY (PatientID) REFERENCES Guest (GuestID)
	PhysioID	Unique ID for physiotherapist	VARCHAR2(20)	FOREIGN_KEY (PhysioID) REFERENCES Guest (GuestID)
	ReminderDate	Date of reminder created	DATE	NONE
	ReminderPlatform	Platform of reminder	VARCHAR2(20)	NONE
MedicalHistory	RecordID	Unique ID for medical record history	VARCHAR2(20)	PRIMARY_KEY
	PatientID	Unique ID for patient	VARCHAR2(20)	FOREIGN_KEY (PatientID) REFERENCES Guest (GuestID)
	PhysioID	Unique ID for physiotherapist	VARCHAR2(20)	FOREIGN_KEY (PhysioID) REFERENCES Guest (GuestID)
	Allergy	The allergy details of patient	VARCHAR2(30)	NONE
	Diagnosis	The diagnosis results of patients	VARCHAR2(255)	NOT NULL
Physiotherapist	PhysioID	Unique ID for Physiotherapist	VARCHAR2(20)	FOREIGN_KEY (PhysioID) REFERENCES Guest (GuestID)
	Name fName lName	First name of user Last name of user	VARCHAR2(20) VARCHAR2(20)	NONE NONE
	ContactNo	Contact number of user	VARCHAR2(15)	NONE
	FeedbackID	Unique ID for feedback	VARCHAR2(20)	PRIMARY_KEY

Feedback	PatientID	Unique ID for patient	VARCHAR2(20)	FOREIGN_KEY (PatientID) REFERENCES Guest (GuestID)
	PhysioID	Unique ID for physiotherapist	VARCHAR2(20)	FOREIGN_KEY (PhysioID) REFERENCES Guest (GuestID)
	Ratings	Ratings in the feedback	NUMBER(1)	NONE
	Comments	Comments content of the feedback	VARCHAR2(255)	NONE
	DateSubmitted	Date of feedback submitted	DATE	NONE

4.3 Normalization

1. Guest (GuestID,Name,fName,lName,ContactNo)

   Fd1: GuestID → Name,fName,iName,ContactNo

   1NF&2NF&3NF&BCNF:

   Guest (<u>GuestID</u>,Name,fName,lName,ContactNo)

2. Patient(PatientID,Gender,DateOfBirth,Address,Email,Emergency_Contact,Name,fName, IName,ContactNo)

   Fd1: PatientID →Gender,DateOfBirth,Address,Email,Emergency_Contact,Name,fName, ContactNo

   1NF&2NF&3NF&BCNF:

   Patient(<u>PatientID</u>,Gender,DateOfBirth,Address,Email,Emergency_Contact,Name,fName, IName,ContactNo)

3. Appointment(AppointmentID,PatientID,PhysioID,AppointmentDateTime,AppointmentStatus)

   Fd1: Appointment→AppointmentID,PatientID,PhysioID,AppointmentDateTime,AppointmentStatus

   1NF&2NF&3NF&BCNF:

   Appointment(<u>AppointmentID</u>,PatientID,PhysioID,AppointmentDateTime,AppointmentStatus)

4. Reminder(ReminderID,AppointmentID,PatientID,PhysioID,ReminderDate,ReminderPlatform)

   Fd1: Reminder→ReminderID,AppointmentID,PatientID,PhysioID,ReminderDate,ReminderPlatform

   1NF&2NF&3NF&BCNF:

   Reminder(<u>ReminderID,</u>AppointmentID,PatientID,PhysioID,ReminderDate,ReminderPlatform)

5. MedicalHistory(RecordID,PatientID,PhysioID,Allergy,Diagnosis)

   Fd1: MedicalHistory → RecordID,PatientID,PhysioID,Allergy,Diagnosis

   1NF&2NF&3NF&BCNF:

   MedicalHistory(<u>RecordID,</u>PatientID,PhysioID,Allergy,Diagnosis)

6. Physiotherapist(PhysioID,Name,fName,IName,ContactNo)

Fd1: PhysioID → Name,fName,lName,ContactNo

1NF&2NF&3NF&BCNF:

Physiotherapist(<u>PhysioID</u>,Name,fName,lName,ContactNo)

7. Feedback(FeedbackID,PatientID,PhysioID,Rating,Comments,DateSubmitted)

   Fd1: Feedback→ FeedbackID,PatientID,PhysioID,Rating,Comments,DateSubmitted

   1NF&2NF&3NF&BCNF:

   Feedback(<u>FeedbackID</u>,PatientID,PhysioID,Rating,Comments,DateSubmitted)

5.0 Relational DB Schema (after normalization)

These are the set of relation schemas in relational database schema for 6G database.

Guest (<u>GuestID</u>,Name,fName,lName,ContactNo)

Patient(<u>PatientID</u>,Gender,DateOfBirth,Address,Email,Emergency_Contact,Name,fName,lName,

ContactNo)

Appointment(<u>AppointmentID</u>,PatientID,PhysioID,AppointmentDateTime,AppointmentStatus)

Reminder(<u>ReminderID</u>,AppointmentID,PatientID,PhysioID,ReminderDate,ReminderPlatform)

MedicalHistory(<u>RecordID</u>,PatientID,PhysioID,Allergy,Diagnosis)

Physiotherapist(<u>PhysioID</u>,Name,fName,lName,ContactNo)

Feedback(<u>FeedbackID</u>,PatientID,PhysioID,Rating,Comments,DateSubmitted)

**Remark: Underline word is Primary Key

6.0 SQL Statements (DDL & DML)

<u>CREATE TABLE</u>

```
CREATE TABLE Guest(
        GuestID VARCHAR2(20),
        fName VARCHAR2(20) NOT NULL,
        lName VARCHAR2(20) NOT NULL,
        ContactNo VARCHAR2(15) NOT NULL,
        CONSTRAINT GuestID_PK PRIMARY KEY (GuestID)
);

CREATE TABLE Patient(
        PatientID VARCHAR2(20),
        fName VARCHAR2(20),
        lName VARCHAR2(20),
        ContactNo VARCHAR2(15),
        Gender VARCHAR2(20) NOT NULL,
        DateOfBirth DATE NOT NULL,
        Address VARCHAR2(60) NOT NULL,
        Email VARCHAR2(40) NOT NULL,
        Emergency_Contact VARCHAR2(15) NOT NULL
);

CREATE TABLE Physiotherapist(
        PhysioID VARCHAR2(20),
        fName VARCHAR2(20),
        lName VARCHAR2(20),
        ContactNo VARCHAR2(15)
);

CREATE TABLE Appointment(
        AppointmentID VARCHAR2(20),
        PatientID VARCHAR2(20),
        PhysioID VARCHAR2(20),
        AppointmentDateTime TIMESTAMP,
        AppointmentStatus VARCHAR2(10),
        CONSTRAINT AppointmentID_PK PRIMARY KEY (AppointmentID)
);

CREATE TABLE Reminder(
        ReminderID VARCHAR2(20),
```

```
        AppointmentID VARCHAR2(20),
        PatientID VARCHAR2(20),
        PhysioID VARCHAR2(20),
        ReminderDate DATE,
        ReminderPlatform VARCHAR2(20),
        CONSTRAINT ReminderID_PK PRIMARY KEY (ReminderID)
);

CREATE TABLE MedicalHistory(
        RecordID VARCHAR2(20),
        PatientID VARCHAR2(20),
        PhysioID VARCHAR2(20),
        Allergy VARCHAR2(30),
        Diagnosis VARCHAR2(255) NOT NULL,
        CONSTRAINT RecordID_PK PRIMARY KEY (RecordID)
);

CREATE TABLE Feedback(
        FeedbackID VARCHAR2(20),
        PatientID VARCHAR2(20),
        PhysioID VARCHAR2(20),
        Ratings NUMBER(1),
        Comments VARCHAR2(255),
        DateSubmitted DATE,
        CONSTRAINT FeedbackID_PK PRIMARY KEY (FeedbackID)
);
```

<u>CONSTRAINT FOREIGN KEY</u>

```
ALTER TABLE Patient
ADD CONSTRAINT PatientID_FK FOREIGN KEY (PatientID)
REFERENCES Guest (GuestID);

ALTER TABLE Physiotherapist
ADD CONSTRAINT PhysioID_FK FOREIGN KEY (PhysioID)
REFERENCES Guest (GuestID);

ALTER TABLE Appointment
ADD CONSTRAINT PatientID_2_FK FOREIGN KEY (PatientID)
REFERENCES Guest (GuestID);
```

```
ALTER TABLE Appointment
ADD CONSTRAINT PhysioID_2_FK FOREIGN KEY (PhysioID)
REFERENCES Guest (GuestID);

ALTER TABLE Reminder
ADD CONSTRAINT AppointmentID_FK FOREIGN KEY (AppointmentID)
REFERENCES Appointment (AppointmentID);
ALTER TABLE Reminder
ADD CONSTRAINT PatientID_3_FK FOREIGN KEY (PatientID)
REFERENCES Guest (GuestID);

ALTER TABLE Reminder
ADD CONSTRAINT PhysioID_3_FK FOREIGN KEY (PhysioID)
REFERENCES Guest (GuestID);

ALTER TABLE MedicalHistory
ADD CONSTRAINT PatientID_4_FK FOREIGN KEY (PatientID)
REFERENCES Guest (GuestID);

ALTER TABLE MedicalHistory
ADD CONSTRAINT PhysioID_4_FK FOREIGN KEY (PhysioID)
REFERENCES Guest (GuestID);

ALTER TABLE Feedback
ADD CONSTRAINT PatientID_5_FK FOREIGN KEY (PatientID)
REFERENCES Guest (GuestID);

ALTER TABLE Feedback
ADD CONSTRAINT PhysioID_5_FK FOREIGN KEY (PhysioID)
REFERENCES Guest (GuestID);
```

INSERT DATA

GUEST

INSERT INTO GUEST
VALUES ('D01', 'Ivlyn', 'Tay', '0100125896');

INSERT INTO GUEST
VALUES ('D02', 'Yun Xi', 'Tan', '0152495233');

INSERT INTO GUEST
VALUES ('D03', 'Jolyn', 'Lin', '0178445972');

INSERT INTO GUEST
VALUES ('D04', 'Jun Cheng', 'Yap', '0124566244');

INSERT INTO GUEST
VALUES ('D05', 'Noraini', 'binti Osman', '0123456789');

INSERT INTO GUEST
VALUES ('P01', 'Muhamad Abu Bakar', 'bin Rashid', '0125689412');

INSERT INTO GUEST
VALUES ('P02', 'Wei Yang', 'Chong', '0171254689');

INSERT INTO GUEST
VALUES ('P03', 'Alvin', 'Tay', '0190125489');

INSERT INTO GUEST
VALUES ('P04', 'Winsom', 'Lim', '0156792100');

INSERT INTO GUEST
VALUES ('P05', 'Sofia', 'binti Ahmad', '0169654320');

INSERT INTO GUEST
VALUES ('P06', 'Mei Ling', 'Tan', '0108108857');

INSERT INTO GUEST
VALUES ('P07', 'Lucas', 'Wong', '0163559771');

INSERT INTO GUEST
VALUES ('P08', 'Isabella', 'Yeoh', '0122154459');

```
INSERT INTO GUEST
VALUES ('P09', 'Xin Hui', 'Lee', '0133659984');

INSERT INTO GUEST
VALUES ('P10', 'Kee Yong', 'Chuah', '0188759211');

INSERT INTO GUEST
VALUES ('P11', 'Jing Zhe', 'Tan', '0123646125');
INSERT INTO GUEST
VALUES ('P12', 'Elvis', 'Chang', '0199856421');

INSERT INTO GUEST
VALUES ('P13', 'Nur Izzati', 'binti Ali', '0166452314');

INSERT INTO GUEST
VALUES ('P14', 'Yu Ting', 'Wang', '0178112003');

INSERT INTO GUEST
VALUES ('P15', 'Ze Min', 'Lai', '0126205589');

INSERT INTO GUEST
VALUES ('P16', 'Nur Aisha', 'binti Ali', '0142251089');

INSERT INTO GUEST
VALUES ('P17', 'Siew Zhen', 'Chong', '0123840661');

INSERT INTO GUEST
VALUES ('P18', 'Muhalim', 'bin Abdullah', '0102816951');

INSERT INTO GUEST
VALUES ('P19', 'Hakimi', 'bin Ahmad', '0177526423');

INSERT INTO GUEST
VALUES ('P20', 'Aqil', 'bin Umar', '0136120556');
```

GUEST

GUESTID	FNAME	LNAME	CONTACTNO
D01	Ivlyn	Tay	0100125896
D02	Yun Xi	Tan	0152495233
D03	Jolyn	Lin	0178445972
D04	Jun Cheng	Yap	0124566244
D05	Noraini	binti Osman	0123456789
P01	Muhamad Abu Bakar	bin Rashid	0125689412
P02	Wei Yang	Chong	0171254689
P03	Alvin	Tay	0190125489
P04	Winsom	Lim	0156792100
P05	Sofia	binti Ahmad	0169654320
P06	Mei Ling	Tan	0108108857
P07	Lucas	Wong	0163559771
P08	Isabella	Yeoh	0122154459
P09	Xin Hui	Lee	0133659984
P10	Kee Yong	Chuah	0188759211
P11	Jing Zhe	Tan	0123646125
P12	Elvis	Chang	0199856421
P13	Nur Izzati	binti Ali	0166452314
P14	Yu Ting	Wang	0178112003
P15	Ze Min	Lai	0126205589
P16	Nur Aisha	binti Ali	0142251089
P17	Siew Zhen	Chong	0123840661
P18	Muhalim	bin Abdullah	0102816951
P19	Hakimi	bin Ahmad	0177526423
P20	Aqil	bin Umar	0136120556

PATIENT

INSERT INTO PATIENT
VALUES ('P01', NULL, NULL, NULL, 'Female', TO_DATE ('12 MAY 2000', 'DD MON YYYY'), '2,Jalan Amal,81200 Johor Bahru', 'abu@gmail.com', '01110746482');

INSERT INTO PATIENT
VALUES ('P02', NULL, NULL, NULL, 'Male', TO_DATE ('8 JAN 2003', 'DD MON YYYY'), '14,Jalan Seri Mangga, 81300 Johor', 'weiyang@yahoo.com', '0122717773');

INSERT INTO PATIENT
VALUES ('P03', NULL, NULL, NULL, 'Male', TO_DATE ('18 JAN 2000', 'DD MON YYYY'), '38, Jalan Kebudayaan, 80988 Johor Bahru', 'alvin@gmail.com', '01110866482');

INSERT INTO PATIENT
VALUES ('P04', NULL, NULL, NULL, 'Male', TO_DATE ('12 JUL 2002', 'DD MON YYYY'), '10, Jalan Gembira, 80100 Johor Bahru', 'winsom@hotmail.com', '0102039966');

INSERT INTO PATIENT

VALUES ('P05', NULL, NULL, NULL, 'Female', TO_DATE ('8 JAN 2003', 'DD MON YYYY'), '24, Jalan Amal, 81200 Johor Bahru', 'sofia123@yahoo.com', '0122375566');

INSERT INTO PATIENT
VALUES ('P06', NULL, NULL, NULL, 'Female', TO_DATE ('24 OCT2003', 'DD MON YYYY'), '6, Jalan Orkid, 81200 Johor Bahru', 'meiling@gmail.com', '0111678965');

INSERT INTO PATIENT
VALUES ('P07', NULL, NULL, NULL , 'Male', TO_DATE ('20 JUL 2002', 'DD MON YYYY'), '57, Jalan Gadong, 80350 Johor', 'lucas@hotmail.com', '0166654111');

INSERT INTO PATIENT
VALUES ('P08', NULL, NULL, NULL, 'Female', TO_DATE ('6 MAY 2003', 'DD MON YYYY'), '13, Jalan Ros, 80300 Johor Bahru', 'isabella456@yahoo.com', '0166452341');

INSERT INTO PATIENT
VALUES ('P09', NULL, NULL, NULL, 'Female', TO_DATE ('19 JAN 1999', 'DD MON YYYY'), '22, Jalan Mawar, 81100 Johor Bahru', 'xinhui12@gmail.com', '0133344576');

INSERT INTO PATIENT
VALUES ('P10', NULL, NULL, NULL, 'Male', TO_DATE ('25 JUN 1970', 'DD MON YYYY'), '19, Jalan Rambai, 81300 Johor', 'ck@hotmail.com', '0177768978');

INSERT INTO PATIENT
VALUES ('P11', NULL, NULL, NULL, 'Male', TO_DATE ('30 SEP 1988', 'DD MON YYYY'), '33, Jalan Murni, 81100 Johor Bahru', 'jz@yahoo.com', '01110946498');

INSERT INTO PATIENT
VALUES ('P12', NULL, NULL, NULL, 'Male', TO_DATE ('20 MAY 1965', 'DD MON YYYY'), '7, Jalan Pelangi, 80150 Johor', 'elvis@gmail.com', '0122254389');

INSERT INTO PATIENT
VALUES ('P13', NULL, NULL, NULL, 'Female', TO_DATE ('4 MAR 1993', 'DD MON YYYY'), '19, Jalan Desa, 80300 Johor Bahru', 'izzati@hotmail.com', '0164489643');

INSERT INTO PATIENT
VALUES ('P14', NULL, NULL, NULL, 'Female', TO_DATE ('17 MAY 1998', 'DD MON YYYY'), '21, Jalan Tun Razak, 80988 Johor Bahru', 'yting@yahoo.com', '0177731108');

INSERT INTO PATIENT

VALUES ('P15', NULL, NULL, NULL, 'Male', TO_DATE ('27 JUN 2001', 'DD MON YYYY'), '16, Jalan Ong Kim Wee, 80150 Johor', 'lai@gmail.com', '0133378965');

INSERT INTO PATIENT
VALUES ('P16', NULL, NULL, NULL, 'Female', TO_DATE ('3 APR 2002', 'DD MON YYYY'), '32, Jalan Tengkera, 80300 Johor Bahru', 'aisha@hotmail.com', '0127879765');

INSERT INTO PATIENT
VALUES ('P17', NULL, NULL, NULL, 'Female', TO_DATE ('24 SEP 1986', 'DD MON YYYY'), '10, Jalan Gajah Berang, 80150 Johor', 'szhen@yahoo.com', '0164537892');

INSERT INTO PATIENT
VALUES ('P18', NULL, NULL, NULL, 'Male', TO_DATE ('26 FEB 1999', 'DD MON YYYY'), '31, Jalan Bukit Cina, 81300 Johor', 'muhalim99@gmail.com', '0177745691');

INSERT INTO PATIENT
VALUES ('P19', NULL, NULL, NULL, 'Male', TO_DATE ('6 AUG 1976', 'DD MON YYYY'), '13, Jalan Seri Murni, 81300 Johor', 'hakimi@hotmail.com', '0111067896');

INSERT INTO PATIENT
VALUES ('P20', NULL, NULL, NULL, 'Male', TO_DATE ('31JUL1997', 'DD MON YYYY'), '22, Jalan Malim, 80988 Johor Bahru', 'aqil@gmail.com', '0142345789');

PATIENTID	FNAME	LNAME	CONTACTNO	GENDER	DATEOFBIRTH	ADDRESS	EMAIL	EMERGENCY_CONTACT
P01				Female	05/12/2000	2,Jalan Amal,81200 Johor Bahru	abu@gmail.com	01110746482
P02				Male	01/08/2003	14,Jalan Seri Mangga, 81300 Johor	weiyang@yahoo.com	0122717773
P03				Male	01/18/2000	38, Jalan Kebudayaan, 80988 Joh...	alvin@gmail.com	01110866482
P04				Male	07/12/2002	10, Jalan Gembira, 80100 Johor Ba...	winsom@hotmail.com	0102039966
P05				Female	01/08/2003	24, Jalan Amal, 81200 Johor Bahru	sofia123@yahoo.com	0122375566
P06				Female	10/24/2003	6, Jalan Orkid, 81200 Johor Bahru	melling@gmail.com	0111678966
P07				Male	07/20/2002	57, Jalan Gadong, 80350 Johor	lucas@hotmail.com	0166654111
P08				Female	05/06/2003	13, Jalan Ros, 80300 Johor Bahru	isabella456@yahoo.com	0166452341
P09				Female	01/19/1999	22, Jalan Mawar, 81100 Johor Bahru	xinhur12@gmail.com	0133344676
P10				Male	06/25/1970	19, Jalan Rambat, 81300 Johor	ck@hotmail.com	0177768978
P11				Male	09/30/1988	33, Jalan Murni, 81100 Johor Bahru	jz@yahoo.com	01110946498
P12				Male	05/20/1965	7, Jalan Pelangi, 80150 Johor	elvis@gmail.com	0122254389
P13				Female	03/04/1993	19, Jalan Desa, 80300 Johor Bahru	izzati@hotmail.com	0164489643
P14				Female	05/17/1998	21, Jalan Tun Razak, 80988 Johor ...	yting@yahoo.com	0177731108
P15				Male	06/27/2001	16, Jalan Ong Kim Wee, 80150 Johor	lai@gmail.com	0133378965
P16				Female	04/03/2002	32, Jalan Tengkera, 80300 Johor B...	aisha@hotmail.com	0127879765
P17				Female	09/24/1986	10, Jalan Gajah Berang, 80150 Johor	szhen@yahoo.com	0164537892
P18				Male	02/26/1999	31, Jalan Bukit Cina, 81300 Johor	muhalim99@gmail.com	0177745691
P19				Male	08/06/1976	13, Jalan Seri Murni, 81300 Johor	hakimi@hotmail.com	0111067896
P20				Male	07/31/1997	22, Jalan Malim, 80988 Johor	aqil@gmail.com	0142345789

PHYSIOTHERAPIST
INSERT INTO PHYSIOTHERAPIST
VALUES ('D01', NULL, NULL, NULL);
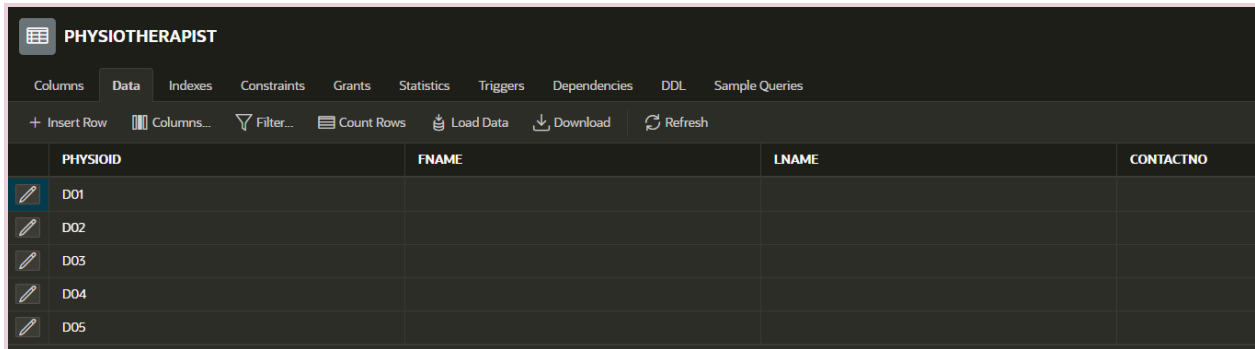
INSERT INTO PHYSIOTHERAPIST

VALUES ('D02', NULL, NULL, NULL);

INSERT INTO PHYSIOTHERAPIST
VALUES ('D03', NULL, NULL, NULL);

INSERT INTO PHYSIOTHERAPIST
VALUES ('D04', NULL, NULL, NULL);

INSERT INTO PHYSIOTHERAPIST
VALUES ('D05', NULL, NULL, NULL);

APPOINTMENT

INSERT INTO APPOINTMENT
VALUES ('A01', 'P01', 'D01', '03-FEB-2024 09:00:00 AM', 'Pending');

INSERT INTO APPOINTMENT
VALUES ('A02', 'P02', 'D02', '04-FEB-2024 10:00:00 AM', 'Pending');

INSERT INTO APPOINTMENT
VALUES ('A03', 'P03', 'D03', '06-FEB-2024 09:00:00 AM', 'Pending');

INSERT INTO APPOINTMENT
VALUES ('A04', 'P04', 'D04', '12-FEB-2024 1:00:00 PM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A05', 'P05', 'D05', '03-FEB-2024 2:00:00 PM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A06', 'P07', 'D01', '07-FEB-2024 1:00:00 PM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A07', 'P07', 'D02', '23-FEB-2024 10:00:00 AM', 'Cancelled');

INSERT INTO APPOINTMENT
VALUES ('A08', 'P08', 'D03', '05-MAR-2024 11:00:00 AM', 'Cancelled');

INSERT INTO APPOINTMENT
VALUES ('A09', 'P09', 'D04', '12-MAR-2024 4:00:00 PM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A10', 'P10', 'D05', '07-APR-2024 3:00:00 PM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A11', 'P11', 'D01', '25-MAR-2024 10:00:00 AM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A12', 'P12', 'D02', '11-MAR-2024 10:00:00 AM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A13', 'P13', 'D03', '06-MAR-2024 09:00:00 AM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A14', 'P14', 'D04', '14-MAR-2024 11:00:00 AM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A15', 'P15', 'D05', '20-MAR-2024 1:00:00 PM', 'Pending');

INSERT INTO APPOINTMENT
VALUES ('A16', 'P16', 'D01', '27-MAR-2024 10:00:00 AM', 'Pending');

INSERT INTO APPOINTMENT
VALUES ('A17', 'P17', 'D02', '03-APR-2024 09:00:00 AM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A18', 'P18', 'D03', '03-APR-2024 11:00:00 AM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A19', 'P19', 'D04', '05-APR-2024 1:00:00 PM', 'Confirmed');

INSERT INTO APPOINTMENT
VALUES ('A20', 'P20', 'D05', '10-APR-2024 10:00:00 AM', 'Confirmed');

APPOINTMENT

Columns | Data | Indexes | Constraints | Grants | Statistics | Triggers | Dependencies | DDL | Sample Queries

APPOINTMENTID	PATIENTID	PHYSIOID	APPOINTMENTDATETIME	APPOINTMENTSTATUS
A01	P01	D01	03-FEB-24 09.00.00.000000000 AM	Pending
A02	P02	D02	04-FEB-24 10.00.00.000000000 AM	Pending
A03	P03	D03	06-FEB-24 09.00.00.000000000 AM	Pending
A04	P04	D04	12-FEB-24 01.00.00.000000000 PM	Confirmed
A05	P05	D05	03-FEB-24 02.00.00.000000000 PM	Confirmed
A06	P07	D01	07-FEB-24 01.00.00.000000000 PM	Confirmed
A07	P07	D02	23-FEB-24 10.00.00.000000000 AM	Cancelled
A08	P08	D03	05-MAR-24 11.00.00.000000000 AM	Cancelled
A09	P09	D04	12-MAR-24 04.00.00.000000000 PM	Confirmed
A10	P10	D05	07-APR-24 03.00.00.000000000 PM	Confirmed
A11	P11	D01	25-MAR-24 10.00.00.000000000 AM	Confirmed
A12	P12	D02	11-MAR-24 10.00.00.000000000 AM	Confirmed
A13	P13	D03	06-MAR-24 09.00.00.000000000 AM	Confirmed
A14	P14	D04	14-MAR-24 11.00.00.000000000 AM	Confirmed
A15	P15	D05	20-MAR-24 01.00.00.000000000 PM	Pending
A16	P16	D01	27-MAR-24 10.00.00.000000000 AM	Pending
A17	P17	D02	03-APR-24 09.00.00.000000000 AM	Confirmed
A18	P18	D03	03-APR-24 11.00.00.000000000 AM	Confirmed
A19	P19	D04	05-APR-24 01.00.00.000000000 PM	Confirmed
A20	P20	D05	10-APR-24 10.00.00.000000000 AM	Confirmed

REMINDER

INSERT INTO REMINDER
VALUES ('R01', 'A01', 'P01', 'D01', TO_DATE ('31 JAN 2024', 'DD MON YYYY'), 'Whatsapp');

INSERT INTO REMINDER
VALUES ('R02', 'A02', 'P02', 'D02', TO_DATE ('01 FEB 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R03', 'A03', 'P03', 'D03', TO_DATE ('03 FEB 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R04', 'A04', 'P04', 'D04', TO_DATE ('09 FEB 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R05', 'A05', 'P05', 'D05', TO_DATE ('31 JAN 2024', 'DD MON YYYY'), 'Whatsapp');

INSERT INTO REMINDER
VALUES ('R06', 'A06', 'P06', 'D01', TO_DATE ('04 FEB 2024', 'DD MON YYYY'), 'Whatsapp');

INSERT INTO REMINDER
VALUES ('R07', 'A07', 'P07', 'D02', NULL, NULL);

INSERT INTO REMINDER
VALUES ('R08', 'A08', 'P08', 'D03', NULL, NULL);

INSERT INTO REMINDER
VALUES ('R09', 'A09', 'P09', 'D04', TO_DATE ('09 FEB 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R10', 'A10', 'P10', 'D05', TO_DATE ('04 APR 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R11', 'A11', 'P11', 'D01', TO_DATE ('22 MAR 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R12', 'A12', 'P12', 'D02', TO_DATE ('08 MAR 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R13', 'A13', 'P13', 'D03', TO_DATE ('03 MAR 2024', 'DD MON YYYY'), 'Whatsapp');

INSERT INTO REMINDER
VALUES ('R14', 'A14', 'P14', 'D04', TO_DATE ('11 MAR 2024', 'DD MON YYYY'), 'Whatsapp');

INSERT INTO REMINDER
VALUES ('R15', 'A15', 'P15', 'D05', TO_DATE ('17 MAR 2024', 'DD MON YYYY'), 'Whatsapp');

INSERT INTO REMINDER
VALUES ('R16', 'A16', 'P16', 'D01', TO_DATE ('23 MAR 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R17', 'A17', 'P17', 'D02', TO_DATE ('31 MAR 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R18', 'A18', 'P18', 'D03', TO_DATE ('31 MAR 2024', 'DD MON YYYY'), 'Email');

INSERT INTO REMINDER
VALUES ('R19', 'A19', 'P19', 'D04', TO_DATE ('02 APR 2024', 'DD MON YYYY'), 'Whatsapp');

INSERT INTO REMINDER
VALUES ('R20', 'A20', 'P20', 'D05', TO_DATE ('07 APR 2024', 'DD MON YYYY'), 'Whatsapp');

REMINDERID	APPOINTMENTID	PATIENTID	PHYSIOID	REMINDERDATE	REMINDERPLATFORM
R01	A01	P01	D01	01/31/2024	Whatsapp
R02	A02	P02	D02	02/01/2024	Email
R03	A03	P03	D03	02/03/2024	Email
R04	A04	P04	D04	02/09/2024	Email
R05	A05	P05	D05	01/31/2024	Whatsapp
R06	A06	P06	D01	02/04/2024	Whatsapp
R07	A07	P07	D02		
R08	A08	P08	D03		
R09	A09	P09	D04	02/09/2024	Email
R10	A10	P10	D05	04/04/2024	Email
R11	A11	P11	D01	03/22/2024	Email
R12	A12	P12	D02	03/08/2024	Email
R13	A13	P13	D03	03/03/2024	Whatsapp
R14	A14	P14	D04	03/11/2024	Whatsapp
R15	A15	P15	D05	03/17/2024	Whatsapp
R16	A16	P16	D01	03/23/2024	Email
R17	A17	P17	D02	03/31/2024	Email
R18	A18	P18	D03	03/31/2024	Email
R19	A19	P19	D04	04/02/2024	Whatsapp
R20	A20	P20	D05	04/07/2024	Whatsapp

MEDICALHISTORY

INSERT INTO MEDICALHISTORY
VALUES ('M01', 'P01', 'D01', NULL, 'Muscle Strain');

INSERT INTO MEDICALHISTORY
VALUES ('M02', 'P02', 'D02', NULL, 'Rotator Cuff Injuries');

INSERT INTO MEDICALHISTORY
VALUES ('M03', 'P03', 'D03', NULL, 'Neck Pain');

INSERT INTO MEDICALHISTORY
VALUES ('M04', 'P04', 'D04', NULL, 'Ankle Sprain');

INSERT INTO MEDICALHISTORY
VALUES ('M05', 'P05', 'D05', NULL, 'Osteoarthritis');

INSERT INTO MEDICALHISTORY
VALUES ('M06', 'P06', 'D01', 'Penicillin', 'Plantar Fasciitis');

INSERT INTO MEDICALHISTORY
VALUES ('M07', 'P07', 'D02', NULL, 'Knee Pain');

INSERT INTO MEDICALHISTORY
VALUES ('M08', 'P08', 'D03', 'Aspirin', 'Low Back Pain');

INSERT INTO MEDICALHISTORY

VALUES ('M09', 'P09', 'D04', 'Sulfonamides', 'Muscle Strain');

INSERT INTO MEDICALHISTORY
VALUES ('M10', 'P10', 'D05', NULL, 'Spinal Cord Injuries');

INSERT INTO MEDICALHISTORY
VALUES ('M11', 'P11', 'D01', 'Penicillin', 'Ankle Sprain');

INSERT INTO MEDICALHISTORY
VALUES ('M12', 'P12', 'D02', NULL, 'Ankle Sprain');

INSERT INTO MEDICALHISTORY
VALUES ('M13', 'P13', 'D03', 'Aspirin', 'Knee Pain');

INSERT INTO MEDICALHISTORY
VALUES ('M14', 'P14', 'D04', NULL, 'Knee Pain');

INSERT INTO MEDICALHISTORY
VALUES ('M15', 'P15', 'D05', 'Penicillin', 'Knee Pain');

INSERT INTO MEDICALHISTORY
VALUES ('M16', 'P16', 'D01', NULL, 'Low Back Pain');

INSERT INTO MEDICALHISTORY
VALUES ('M17', 'P17', 'D02', NULL, 'Muscle Strain');

INSERT INTO MEDICALHISTORY
VALUES ('M18', 'P18', 'D03', NULL, 'Muscle Strain');

INSERT INTO MEDICALHISTORY
VALUES ('M19', 'P19', 'D04', NULL, 'Plantar fasciitis');

INSERT INTO MEDICALHISTORY

VALUES ('M20', 'P20', 'D05', NULL, 'Tightness in hamstrings');

RECORDID	PATIENTID	PHYSIOID	ALLERGY	DIAGNOSIS
M01	P01	D01		Muscle Strain
M02	P02	D02		Rotator Cuff Injuries
M03	P03	D03		Neck Pain
M04	P04	D04		Ankle Sprain
M05	P05	D05		Osteoarthritis
M06	P06	D01	Penicillin	Plantar Fasciitis
M07	P07	D02		Knee Pain
M08	P08	D03	Aspirin	Low Back Pain
M09	P09	D04	Sulfonamides	Muscle Strain
M10	P10	D05		Spinal Cord Injuries
M11	P11	D01	Penicillin	Ankle Sprain
M12	P12	D02		Ankle Sprain
M13	P13	D03	Aspirin	Knee Pain
M14	P14	D04		Knee Pain
M15	P15	D05	Penicillin	Knee Pain
M16	P16	D01		Low Back Pain
M17	P17	D02		Muscle Strain
M18	P18	D03		Muscle Strain
M19	P19	D04		Plantar fasciitis
M20	P20	D05		Tightness in hamstrings

FEEDBACK

INSERT INTO FEEDBACK
VALUES ('F01', 'P01', 'D01', 5, NULL, TO_DATE ('05 FEB 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F02', 'P02', 'D02', 4, 'Compassionate and attentive care.', TO_DATE ('06 FEB 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F03', 'P03', 'D03', 5, 'Exceptional expertise and professionalism.', TO_DATE ('07 FEB 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F04', 'P04', 'D04', 3, 'Inadequate temperature control in waiting areas.', TO_DATE ('16 FEB 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F05', 'P05', 'D05', 2, 'Reduce waiting times please', TO_DATE ('04 FEB 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F06', 'P06', 'D01', NULL, 'Highly knowledgeable and approachable.', TO_DATE ('08 FEB 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F07', 'P07', 'D02', 5, 'Patient-focused and thorough approach.', TO_DATE ('26 DEC 2023', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F08', 'P08', 'D03', 4, 'Encourages and motivates during sessions.', TO_DATE ('08 MAR 2023', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F09', 'P09', 'D04', 5, 'Clean and well-maintained facilities.', TO_DATE ('13 MAR 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F10', 'P10', 'D05', 3, NULL, TO_DATE ('08 APR 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F11', 'P11', 'D01', 3, NULL, TO_DATE ('26 MAR 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F12', 'P12', 'D02', NULL, 'Provides comprehensive and insightful advice', TO_DATE ('11 MAR 2023', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F13', 'P13', 'D03', NULL, 'Exceptional expertise in therapy techniques', TO_DATE ('07 MAR 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F14', 'P14', 'D04', NULL, NULL, NULL);

INSERT INTO FEEDBACK
VALUES ('F15', 'P15', 'D05', 3, 'Provides valuable home care advice.', TO_DATE ('20 MAR 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F16', 'P16', 'D01', 2, 'Enhance waiting area comfort.', TO_DATE ('26 MAR 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F17', 'P17', 'D02', 4, NULL, TO_DATE ('03 APR 2023', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F18', 'P18', 'D03', NULL, 'Supportive and friendly staff interactions.', TO_DATE ('05 APR 2024', 'DD MON YYYY'));

INSERT INTO FEEDBACK
VALUES ('F19', 'P19', 'D04', NULL, NULL, NULL);

INSERT INTO FEEDBACK
VALUES ('F20', 'P20', 'D05', NULL, NULL, NULL);

FEEDBACKID	PATIENTID	PHYSIOID	RATINGS	COMMENTS	DATESUBMITTED
F01	P01	D01	5		02/05/2024
F02	P02	D02	4	Compassionate and attentive care.	02/06/2024
F03	P03	D03	5	Exceptional expertise and professionalism.	02/07/2024
F04	P04	D04	3	Inadequate temperature control in waiting areas.	02/16/2024
F05	P05	D05	2	Reduce waiting times please	02/04/2024
F06	P06	D01		Highly knowledgeable and approachable.	02/08/2024
F07	P07	D02	5	Patient-focused and thorough approach.	12/26/2023
F08	P08	D03	4	Encourages and motivates during sessions.	03/08/2023
F09	P09	D04	5	Clean and well-maintained facilities.	03/13/2024
F10	P10	D05	3		04/08/2024
F11	P11	D01	3		03/26/2024
F12	P12	D02		Provides comprehensive and insightful advice	03/11/2023
F13	P13	D03		Exceptional expertise in therapy techniques	03/07/2024
F14	P14	D04			
F15	P15	D05	3	Provides valuable home care advice.	03/20/2024
F16	P16	D01	2	Enhance waiting area comfort.	03/26/2024
F17	P17	D02	4		04/03/2023
F18	P18	D03		Supportive and friendly staff interactions.	04/05/2024
F19	P19	D04			
F20	P20	D05			

DML skills

UPDATE PATIENT fName, lName, ContactNo using select from where concept & AND operator

UPDATE Patient p
SET (fName, lName, ContactNo) = (
    SELECT fName, lName, ContactNo
    FROM Guest
    WHERE p.PatientID = Guest.GuestID AND Guest.GuestID LIKE 'P%'
);

Print Patient to show the update
SELECT* FROM Patient;

PATIENTID	FNAME	LNAME	CONTACTNO	GENDER	DATEOFBIRTH	ADDRESS	EMAIL	EMERGENCY_CONTACT
P01	Muhamad Abu Bakar	bin Rashid	0125689412	Female	05/12/2000	2, Jalan Amal, 81200 Johor Bahru	abu@gmail.com	01110746482
P02	Wei Yang	Chong	0171254689	Male	01/08/2003	14, Jalan Seri Mangga, 81300 Johor	weiyang@yahoo.com	0122717773
P03	Alvin	Tay	0190125489	Male	01/18/2000	38, Jalan Kebudayaan, 80988 Johor Bahru	alvin@gmail.com	01110866482
P04	Winsom	Lim	0156792100	Male	07/12/2002	10, Jalan Gembira, 80100 Johor Bahru	winsom@hotmail.com	0102059966
P05	Sofia	binti Ahmad	0169664320	Female	01/08/2003	24, Jalan Amal, 81200 Johor Bahru	sofia123@yahoo.com	0122215566
P06	Mei Ling	Tan	0108108857	Female	10/24/2005	6, Jalan Orkid, 81200 Johor Bahru	meiling@gmail.com	0116789966
P07	Lucas	Wong	0163569771	Male	07/30/2002	57, Jalan Gadong, 80350 Johor	lucas@hotmail.com	016665411
P08	Isabella	Yeoh	0122564569	Female	05/06/2003	13, Jalan Ros, 80300 Johor Bahru	isabella456@yahoo.com	0166462341
P09	Xin Hui	Lee	0133669984	Female	01/16/1999	22, Jalan Mawar, 81100 Johor Bahru	xinhui12@gmail.com	0133344676
P10	Kee Yong	Chuah	0188759211	Male	06/25/1970	19, Jalan Rambai, 81300 Johor	ck@hotmail.com	0177368978
P11	Jing Zhe	Tan	0123646125	Male	09/30/1988	33, Jalan Murni, 81100 Johor Bahru	jz@yahoo.com	01110946498
P12	Elvis	Cheng	0199856421	Male	05/20/1966	7, Jalan Pelangi, 80150 Johor	elvis@gmail.com	0122254389
P13	Nur Izzati	binti Ali	0166462314	Female	03/04/1993	19, Jalan Desa, 80300 Johor Bahru	izzati@hotmail.com	0164489643
P14	Yu Ting	Wang	0178112003	Female	05/13/1998	21, Jalan Tun Razak, 80988 Johor Bahru	yting@yahoo.com	0177731108
P15	Ze Min	Lai	0126206689	Male	06/27/2001	16, Jalan Ong Kim Wee, 80150 Johor	lai@gmail.com	0133378965
P16	Nur Aisha	binti Ali	0142251089	Female	04/03/2002	32, Jalan Tenglera, 80300 Johor Bahru	aisha@hotmail.com	0127879765
P17	Siew Zhen	Chong	0123840661	Female	09/24/1986	10, Jalan Gajah Berang, 80150 Johor	szhen@yahoo.com	0164537892
P18	Muhalim	bin Abdullah	0102816951	Male	02/26/1999	31, Jalan Bukit Cina, 81300 Johor	muhalim99@gmail.com	0177746691
P19	Hakimi	bin Ahmad	0177526423	Male	08/06/1976	13, Jalan Seri Murni, 81300 Johor	hakimi@hotmail.com	01110678916
P20	Aqil	bin Umar	0136120556	Male	07/31/1997	22, Jalan Melim, 80988 Johor Bahru	aqil@gmail.com	0142345789

20 rows returned in 0.02 seconds   Download

UPDATE PHYSIOTHERAPIST fName, lName, ContactNo using select from where concept & AND operator

UPDATE Physiotherapist d
SET (fName, lName, ContactNo) = (
    SELECT fName, lName, ContactNo
    FROM Guest
    WHERE d.PhysioID = Guest.GuestID AND Guest.GuestID LIKE 'D%'
);

Print Physiotherapist table to show the update

SELECT* FROM Physiotherapist;

PHYSIOID	FNAME	LNAME	CONTACTNO
D01	Ivlyn	Tay	0100125896
D02	Yun Xi	Tan	0152495233
D03	Jolyn	Lin	0178445972
D04	Jun Cheng	Yap	0124566244
D05	Noraini	binti Osman	0123456789

5 rows returned in 0.01 seconds   Download

Combine Patient fName, lName with Alias Name (Patient Name) and other patient information

SELECT patientID, fName || ' '|| lName AS "Patient Name", gender, dateofbirth, address, email, emergency_contact, contactno

FROM Patient

PATIENTID	Patient Name	GENDER	DATEOFBIRTH	ADDRESS	EMAIL	EMERGENCY_CONTACT	CONTACTNO
P01	Muhamad Abu Bakar bin Rashid	Female	05/12/2000	2, Jalan Amal, 81200 Johor Bahru	abu@gmail.com	01110746492	0125689412
P02	Wei Yang Chong	Male	01/08/2003	14, Jalan Seri Mangga, 81300 Johor	weiyang@yahoo.com	0122717773	0171254689
P03	Alvin Tay	Male	01/18/2000	58, Jalan Kebudayaan, 80988 Johor Bahru	alvin@gmail.com	01110866482	0190126489
P04	Winsom Lim	Male	07/12/2002	10, Jalan Gembira, 80100 Johor Bahru	winsom@hotmail.com	0102039966	0156792100
P05	Sofia binti Ahmad	Female	01/08/2003	24, Jalan Amal, 81200 Johor Bahru	sofia123@yahoo.com	0122375666	0169664320
P06	Mel Ling Tan	Female	10/24/2003	6, Jalan Orkid, 81200 Johor Bahru	melling@gmail.com	0116789965	0108108857
P07	Lucas Wong	Male	07/20/2002	57, Jalan Gadong, 80160 Johor	lucas@hotmail.com	0166464111	0168567771
P08	Isabella Yeoh	Female	05/04/2003	13, Jalan Ros, 80300 Johor Bahru	isabella456@yahoo.com	0166462541	0122164469
P09	Xin Hui Lee	Female	01/19/1999	22, Jalan Mawar, 81100 Johor Bahru	xinhui12@gmail.com	0133344676	0133669984
P10	Kee Yong Chuah	Male	06/25/1970	19, Jalan Rambai, 81300 Johor	ck@hotmail.com	0177768978	0188759211
P11	Jing Zhe Tan	Male	09/30/1988	33, Jalan Murni, 81100 Johor Bahru	jz@yahoo.com	01110946498	0123646125
P12	Elvis Chang	Male	05/20/1965	7, Jalan Pelangi, 80160 Johor	elvis@gmail.com	0122254389	0199866421
P13	Nur Izzati binti Ali	Female	03/04/1993	19, Jalan Desa, 80300 Johor Bahru	izzati@hotmail.com	0166489643	0166462334
P14	Yu Ting Wang	Female	05/17/1998	21, Jalan Tun Razak, 80988 Johor Bahru	yting@yahoo.com	0177737108	0178112003
P15	Ze Min Lai	Male	06/27/2001	16, Jalan Ong Kim Wee, 80160 Johor	lai@gmail.com	0133378966	0126206589
P16	Nur Aisha binti Ali	Female	04/03/2002	32, Jalan Tengkera, 80300 Johor Bahru	aisha@hotmail.com	0127879765	0142351089
P17	Siew Zhen Chong	Female	09/24/1986	10, Jalan Gajah Berang, 80160 Johor	szhen@yahoo.com	0164537892	0123840661
P18	Muhalim bin Abdullah	Male	02/26/1999	31, Jalan Bukit Cina, 81300 Johor	muhalim99@gmail.com	0177746691	0102814951
P19	Hakimi bin Ahmad	Male	08/06/1976	13, Jalan Seri Murni, 81300 Johor	hakimi@hotmail.com	0111067896	0177526423
P20	Aqil bin Umar	Male	07/31/1997	22, Jalan Malim, 80988 Johor Bahru	aqil@gmail.com	0142345789	0136120556

20 rows returned in 0.01 seconds   Download

Delete row P07 where the patient's appointment is cancel from Reminder

DELETE FROM Reminder

WHERE patientID = 'P07';

Delete row P08 where the patient's appointment is cancel from Reminder

DELETE FROM Reminder

WHERE patientID = 'P08';

Print Reminder table to show the update

SELECT* FROM Reminder;

REMINDERID	APPOINTMENTID	PATIENTID	PHYSIOID	REMINDERDATE	REMINDERPLATFORM
R01	A01	P01	D01	01/31/2024	Whatsapp
R02	A02	P02	D02	02/01/2024	Email
R03	A03	P03	D03	02/03/2024	Email
R04	A04	P04	D04	02/09/2024	Email
R05	A05	P05	D05	01/31/2024	Whatsapp
R06	A06	P06	D01	02/04/2024	Whatsapp
R09	A09	P09	D04	02/09/2024	Email
R10	A10	P10	D05	04/04/2024	Email
R11	A11	P11	D01	03/22/2024	Email
R12	A12	P12	D02	03/08/2024	Email
R13	A13	P13	D03	03/03/2024	Whatsapp
R14	A14	P14	D04	03/11/2024	Whatsapp
R15	A15	P15	D05	03/17/2024	Whatsapp
R16	A16	P16	D01	03/23/2024	Email
R17	A17	P17	D02	03/31/2024	Email
R18	A18	P18	D03	03/31/2024	Email
R19	A19	P19	D04	04/02/2024	Whatsapp
R20	A20	P20	D05	04/07/2024	Whatsapp

18 rows returned in 0.01 seconds   Download

Retrieve data (ratings) in descending order from Feedback table

SELECT feedbackID, patientID, physioID, ratings, comments, datesubmitted

FROM Feedback

ORDER BY ratings DESC;

FEEDBACKID	PATIENTID	PHYSIOID	RATINGS	COMMENTS	DATESUBMITTED
F12	P12	D02	-	Provides comprehensive and insightful advice	03/11/2023
F20	P20	D05	-	-	-
F06	P06	D01	-	Highly knowledgeable and approachable.	02/08/2024
F14	P14	D04	-	Exceptional expertise in therapy techniques	-
F15	P15	D03	-	Exceptional expertise in therapy techniques	03/17/2024
F18	P18	D03	-	Supportive and friendly staff interactions.	04/06/2024
F19	P19	D04	-	-	-
F09	P09	D04	5	Clean and well-maintained facilities.	03/13/2024
F01	P01	D01	5	-	02/05/2024
F07	P07	D02	5	Patient-focused and thorough approach.	12/26/2023
F03	P03	D03	5	Exceptional expertise and professionalism.	02/07/2024
F08	P08	D03	4	Encourages and motivates during sessions.	03/08/2023
F02	P02	D02	4	Compassionate and attentive care.	02/06/2024
F17	P17	D02	4	-	04/03/2023
F16	P16	D05	3	Provides valuable home care advice.	03/20/2024
F04	P04	D04	3	Inadequate temperature control in waiting areas.	02/16/2024
F10	P10	D05	3	-	04/08/2024
F11	P11	D01	3	-	03/26/2024
F16	P16	D01	2	Enhance waiting area comfort.	03/26/2024
F05	P05	D05	2	Reduce waiting times please	02/04/2024

20 rows returned in 0.04 seconds   Download

Join with USING clause

SELECT p.fName || ' '|| p.lName AS "Patient Name", m.allergy, m.diagnosis

FROM Patient p JOIN MedicalHistory m

USING (patientID);

Patient Name	ALLERGY	DIAGNOSIS
Muhamad Abu Bakar bin Rashid	-	Muscle Strain
Wei Yang Chong	-	Rotator Cuff Injuries
Alvin Tay	-	Neck Pain
Winsom Lim	-	Ankle Sprain
Sofia binti Ahmad	-	Osteoarthritis
Mei Ling Tan	Penicillin	Plantar Fasciitis
Lucas Wong	-	Knee Pain
Isabella Yeoh	Aspirin	Low Back Pain
Xin Hui Lee	Sulfonamides	Muscle Strain
Kee Yong Chuah	-	Spinal Cord Injuries
Jing Zhe Tan	Penicillin	Ankle Sprain
Elvis Chang	-	Ankle Sprain
Nur Izzati binti Ali	Aspirin	Knee Pain
Yu Ting Wang	-	Knee Pain
Ze Min Lai	Penicillin	Knee Pain
Nur Aisha binti Ali	-	Low Back Pain
Siew Zhen Chong	-	Muscle Strain
Muhaimin bin Abdullah	-	Muscle Strain
Hakimi bin Ahmad	-	Plantar fasciitis
Aqil bin Umar	-	Tightness in hamstrings

20 rows returned in 0.02 seconds   Download

Join with NATURAL clause

SELECT fName || ' '|| lName AS "Patient Name", appointmentDateTime, appointmentStatus

FROM Patient NATURAL JOIN Appointment;

Patient Name	APPOINTMENTDATETIME	APPOINTMENTSTATUS
Muhamad Abu Bakar bin Rashid	03-FEB-24 09.00.00.000000 AM	Pending
Wei Yang Chong	04-FEB-24 10.00.00.000000 AM	Pending
Alvin Tay	06-FEB-24 09.00.00.000000 AM	Pending
Winsom Lim	12-FEB-24 01.00.00.000000 PM	Confirmed
Sofia binti Ahmad	03-FEB-24 02.00.00.000000 PM	Confirmed
Lucas Wong	07-FEB-24 01.00.00.000000 PM	Confirmed
Lucas Wong	23-FEB-24 10.00.00.000000 AM	Cancelled
Isabella Yeoh	05-MAR-24 11.00.00.000000 AM	Cancelled
Xin Hui Lee	12-MAR-24 04.00.00.000000 PM	Confirmed
Kee Yong Chuah	07-APR-24 03.00.00.000000 PM	Confirmed
Jing Zhe Tan	25-MAR-24 11.00.00.000000 AM	Confirmed
Elvis Chang	11-MAR-24 10.00.00.000000 AM	Confirmed
Nur Izzati binti Ali	06-MAR-24 09.00.00.000000 AM	Confirmed
Yu Ting Wang	14-MAR-24 11.00.00.000000 AM	Confirmed
Ze Min Lai	20-MAR-24 01.00.00.000000 PM	Pending
Nur Aisha binti Ali	27-MAR-24 10.00.00.000000 AM	Pending
Siew Zhen Chong	03-APR-24 09.00.00.000000 AM	Confirmed
Muhaimin bin Abdullah	03-APR-24 11.00.00.000000 AM	Confirmed
Hakimi bin Ahmad	05-APR-24 01.00.00.000000 PM	Confirmed
Aqil bin Umar	10-APR-24 10.00.00.000000 AM	Confirmed
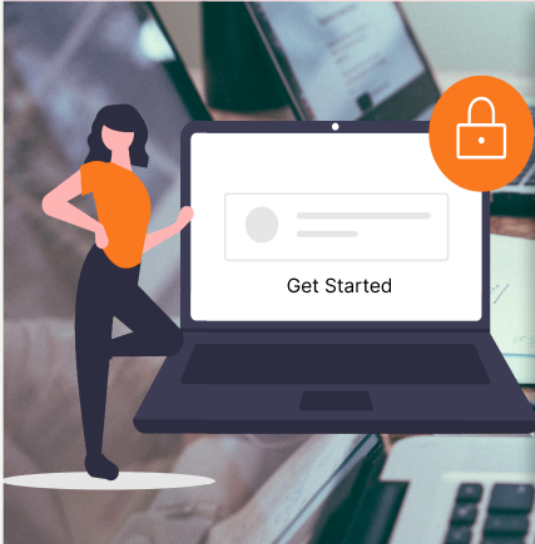
20 rows returned in 0.01 seconds   Download

7.0 Prototype

LIST OF PATIENT

PatientID	First Name	Last Name	ContactNo	Gender	DateOfBirth	Address	Email	Emergency_Contact
P01	Muhamad Abu Bakar	bin Rashid	0125689412	Female	12-05-2000	2,Jalan Amal,81200 Johor Bahru	abu@gmail.com	01110746482
P02	Wei Yang	Chong	0171254689	Male	8-1-2003	14,Jalan Seri Mangga,81300 Johor	weiyang@yahoo.com	0122717773
P03	Alvin	Tay	0190125489	Male	18-1-2000	38,Jalan Kebudayaan,80988 Johor Bahru	alvin@gamil.com	01110866482
P04	Winsom	Lim	0156792100	Male	12-07-2002	10,Jalan Gembira,80100 Johor Bahru	winsom@hotmail.com	0102039966
P05	Sofia	binti Ahmad	0169654320	Female	8-1-2003	24,Jalan Amal,81200 Johor Bahru	sofia123@yahoo.com	0122375566
P06	Mei Ling	Tan	0108108857	Female	24-10-2003	6,Jalan Orkid,81200 Johor Bahru	meiling@gmail.com	0111678965
P07	Lucas	Wong	0163559771	Male	20-7-2002	57,Jalan Gadong, 80350 Johor	lucas@hotmail.com	0166654111
P08	Xin Hui	Lee	0133659984	Female	6-5-2003	13,Jalan Ros,80300 Johor Bahru	isabella456@yahoo.com	0166452341
P09	Kee Yong	Chuah	0188759211	Female	19-1-1999	22,Jalan Mawar, 81100 Johor Bahru	xinhui12@gmail.com	0133344576
P10	Elvis	Chang	0199856421	Male	25-6-1970	19,Jalan Rambai,81300 Johor	ck@hotmail.com	0177768978

⟨ 1 2 3 … ⟩

UPDATE PATIENT fName, lName, ContactNo using select from where concept & AND operator

UPDATE Patient p

SET (fName, lName, ContactNo) = (
    SELECT fName, lName, ContactNo
    FROM Guest
    WHERE p.PatientID = Guest.GuestID AND Guest.GuestID LIKE 'P%'
);

Print Patient to show the update

SELECT* FROM Patient;

LIST OF PHYSIOTHERAPY

PhysioID	fName	lName	ContactNo
D01	Ivlyn	Tay	0100125896
D02	Yun Xi	Tan	0152495233
D03	Jolyn	Lin	0178445972
D04	Jun Cheng	Yap	0124566244
D05	Noraini	binti Osman	0123456789

UPDATE PHYSIOTHERAPIST fName, lName, ContactNo using select from where concept & AND operator

UPDATE Physiotherapist d
SET (fName, lName, ContactNo) = (
    SELECT fName, lName, ContactNo
    FROM Guest
    WHERE d.PhysioID = Guest.GuestID AND Guest.GuestID LIKE 'D%'
);

Print Physiotherapist table to show the update
SELECT* FROM Physiotherapist;

Combine Patient fName, lName with Alias Name (Patient Name) and other patient information

SELECT patientID, fName || ' '|| lName AS "Patient Name", gender, dateofbirth, address, email, emergency_contact, contactno

FROM Patient

LIST OF REMINDER

ReminderID	AppointmentID	PatientID	PhysioID	ReminderDate	ReminderPlatform	Delete
R01	A01	P01	D01	31-1-2024	Whatsapp	🗑
R02	A02	P02	D02	1-2-2024	Email	🗑
R03	A03	P03	D03	3-2-2024	Email	🗑
R04	A04	P04	D04	9-2-2024	Email	🗑
R05	A05	P05	D05	31-1-2024	Whatsapp	🗑
R06	A06	P06	D01	4-2-2024	Whatsapp	🗑
R09	A09	P09	D04	9-2-2024	Email	🗑
R10	A10	P10	D05	4-4-2024	Email	🗑
R11	A11	P11	D01	22-3-2024	Email	🗑
R12	A12	P12	D02	8-3-2024	Email	🗑
R13	A13	P13	D03	3-3-2024	Whatsapp	🗑
R14	A14	P14	D04	11-3-2024	Whatsapp	🗑
R15	A15	P15	D05	17-3-2024	Whatsapp	🗑
R16	A16	P16	D01	23-3-2024	Email	🗑
R17	A17	P17	D02	31-3-2024	Email	🗑

⟨ 1 2 3 … ⟩

Delete row P07 where the patient's appointment is cancel from Reminder
DELETE FROM Reminder
WHERE patientID = 'P07';

Delete row P08 where the patient's appointment is cancel from Reminder
DELETE FROM Reminder
WHERE patientID = 'P08';

Print Reminder table to show the update
SELECT* FROM Reminder;

LIST OF FEEDBACK

Ratings Order:　○ Ascending　◉ Descending

FeedbackID	PatientID	PhysioID	Ratings	Comments	Date Submitted
F06	P06	D01	NULL	Highly knowledgeable and approachable.	8-2-2024
F12	P12	D02	NULL	Provides comprehensive and insightful advice	11-3-2024
F13	P13	D03	NULL	Exceptional expertise in therapy techniques	7-3-2024
F14	P14	D04	NULL	NULL	null
F18	P18	D03	NULL	Supportive and friendly staff interactions.	5-4-2024
F19	P19	D04	NULL	NULL	null
F20	P20	D05	NULL	NULL	null
F01	P01	D01	5	NULL	5-2-2024
F03	P03	D03	5	Exceptional expertise and professionalism.	7-2-2024
F07	P07	D02	5	Patient-focused and thorough approach.	26-12-2023
F09	P09	D04	5	Clean and well-maintained facilities.	13-3-2024
F02	P02	D02	4	Compassionate and attentive care.	6-2-2024
F08	P08	D03	4	Encourages and motivates during sessions.	8-3-2023
F17	P17	D02	4	NULL	3-4-2024
F04	P04	D04	3	Inadequate temperature control in waiting areas.	16-2-2024
F10	P10	D05	3	NULL	8-4-2024
F11	P11	D01	3	NULL	26-3-2024
F15	P15	D05	3	Provides valuable home care advice.	20-3-2024
F05	P05	D05	2	Reduce waiting times please	4-2-2024
F16	P16	D01	2	Enhance waiting area comfort.	26-3-2024

Retrieve data (ratings) in descending order from Feedback table

SELECT feedbackID, patientID, physioID, ratings, comments, datesubmitted
FROM Feedback
ORDER BY ratings DESC;

Join with USING clause

SELECT p.fName || ' '|| p.lName AS "Patient Name", m.allergy, m.diagnosis

FROM Patient p JOIN MedicalHistory m

USING (patientID);

Join with NATURAL clause

SELECT fName || ' '|| lName AS "Patient Name", appointmentDateTime, appointmentStatus
FROM Patient NATURAL JOIN Appointment;

8.0 Summary

In conclusion for this phase, we had listened to the concerns and expectations of the user about the current physiotherapist clinic system. In fact, we had some discussions about the features that we should maintain and how to enhance the features to create a more user-friendly clinic system, letting the stakeholders feel the system is easy for them when it comes to accessing services provided by PKU UTM.

We had analyzed the user requirements and recommendations that we had collected from phase 2 in order to design the system that we proposed, the physiotherapist clinic system. This physiotherapist clinic system serves as a comprehensive online platform that allows people to access services, online medical resources and databases to know more about their health conditions and treatments from anywhere with internet connectivity. Our proposed system includes the features of simplify appointment booking, introduce friendly reminders, implementing digital feedback mechanisms, and addressing system slowdowns.

Our expectation of the proposed system is that our stakeholders will gain benefits which can seamlessly book appointments for consultations, treatments, and supplements without needing to visit the clinic physically by using our proposed physiotherapy clinic system. The benefits include easily accessing the medical history and book and cancel appointments online, more concise feedback process and auto-generation of feedback reports to physiotherapists. The system will also support sending notifications to notify the patients of the appointment time when it gets close.