



CIS 530
Intro to Database Systems and Proc
Health Administration Database Project
Hands On Project
By
Ramya Sri Jonnala
CSU ID: 2812068.

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References

Introduction:

I'm working to create a state-of-the-art health system portfolio management system that can track a patient's medical history, doctor information, insurance policy, and other information for a healthcare facility. This system will let the center efficiently retrieve, update, and report patient information that is helpful in aiding the medical professionals in rapid and accurate diagnosis. The center can use this technology to keep an eye on both their medical and financial management at the same time.

The healthcare facility's many departments now use separate systems that prevent effective data sharing and hinder communication between them. Duplicate data could be present in the systems, wasting storage space. Additionally, the various systems could employ various application applications that result in incompatible files.

Health Systems Portfolio is a database management system (DBMS), which is based on SQL Queries, using the advanced database technology to construct, maintain, and manipulate various kinds of data in a database system (DBS). The DBMS can track and update all the information of recorded patients in the healthcare center during a particular time span. The major advantages of the DBMS are easy to retrieve and update information, efficient data sharing and communication, and reliable backup and security.

This system consists of 5 tables, namely Doctor_Details, Patient_Info, Paycheck, Patient_Insurance, Health_Department.

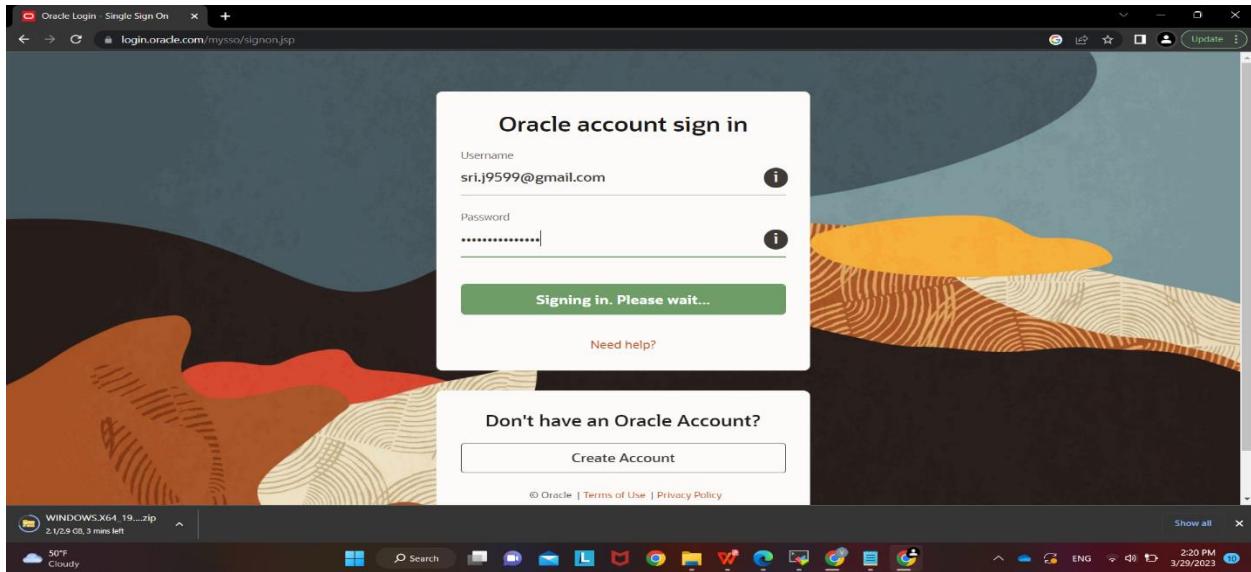
Each table consists of 17 rows based on the corresponding table.

Installation:

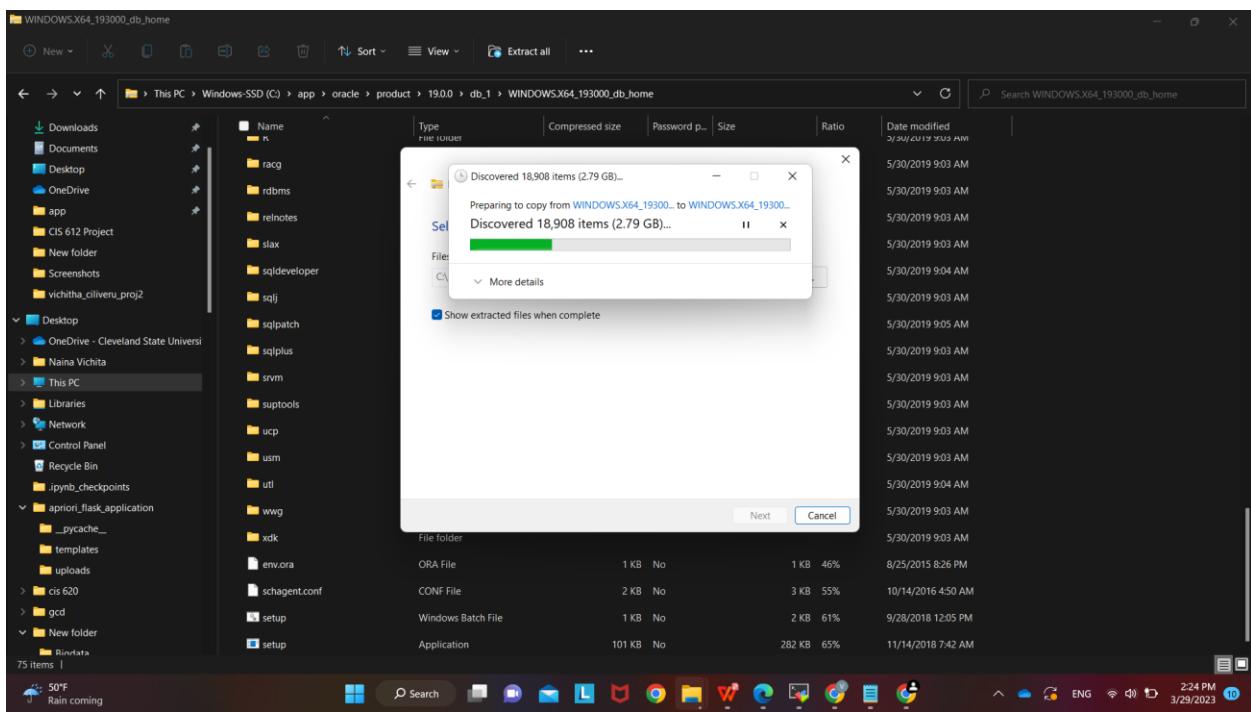
1. Download the Windows version of Oracle Database 19c

Getting the Oracle 19c software for Windows from the official Oracle download page is the first thing we must do. Numerous packages can be found on this page.

Although Oracle 19c software is available for free download, a license is needed to utilize it in a production setting. Furthermore, keep in mind that downloading needs an Oracle account.



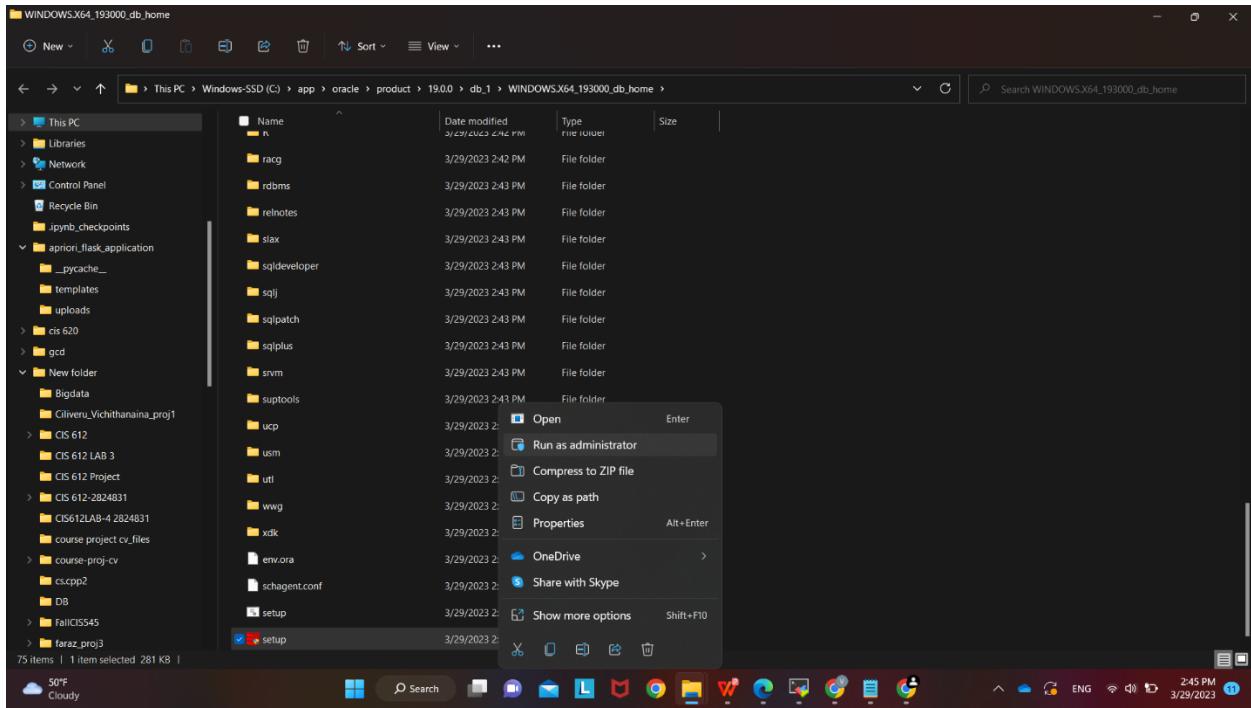
After login into Oracle account, you must download the zip file.



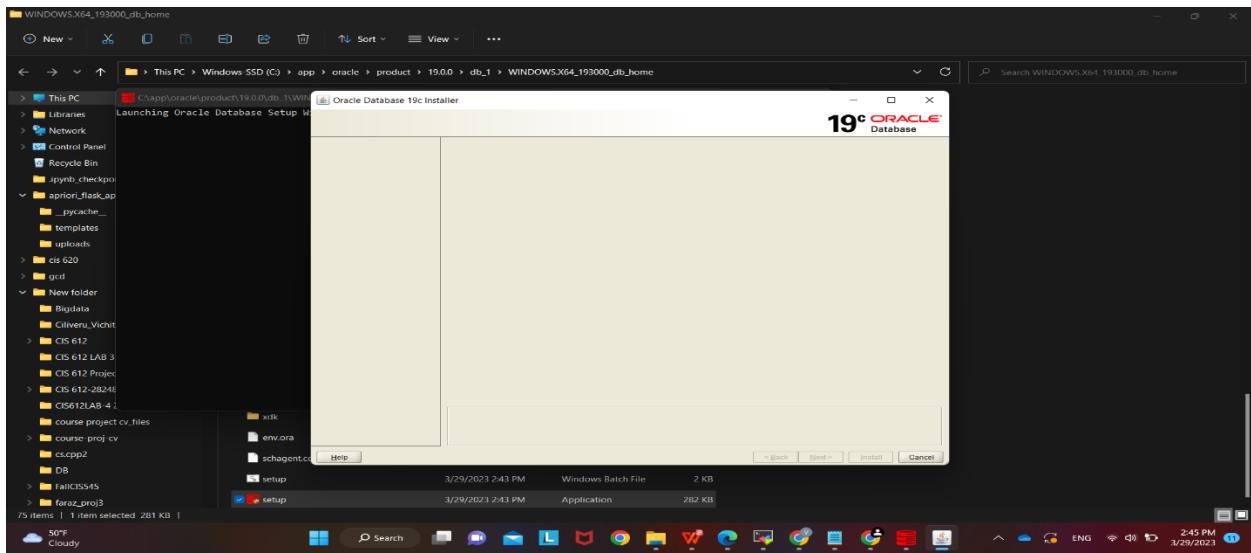
2. Start the installation wizard

After the download is finished

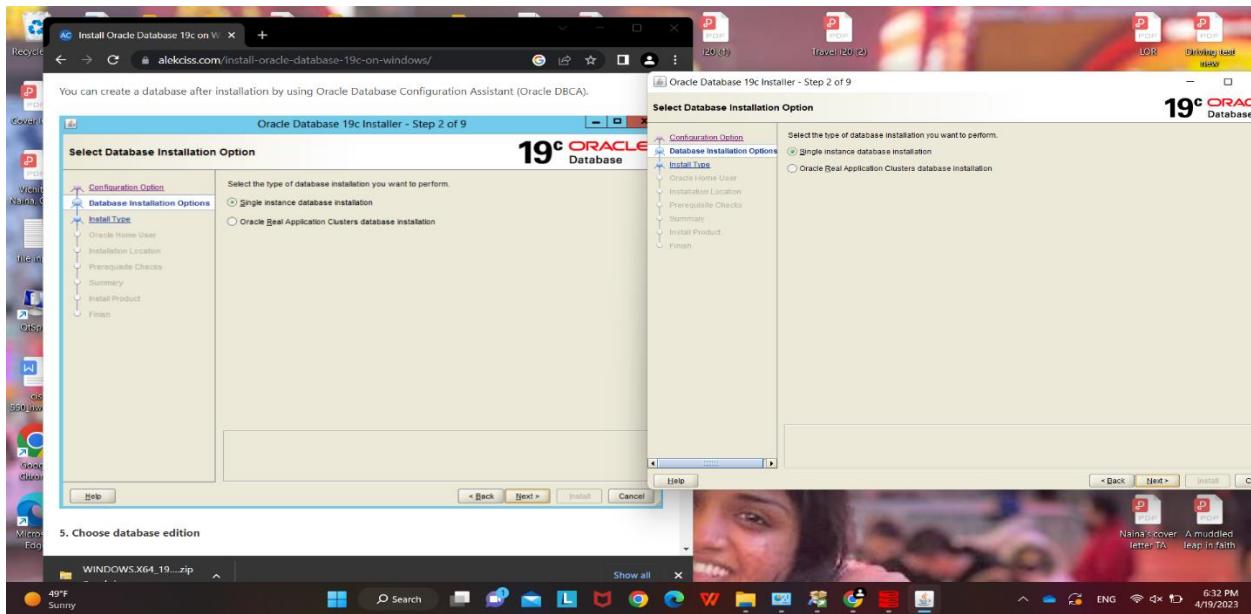
Launch the setup after unzipping the package and copying it to the root of your drive. Rename the folder to something briefer, like db_home.



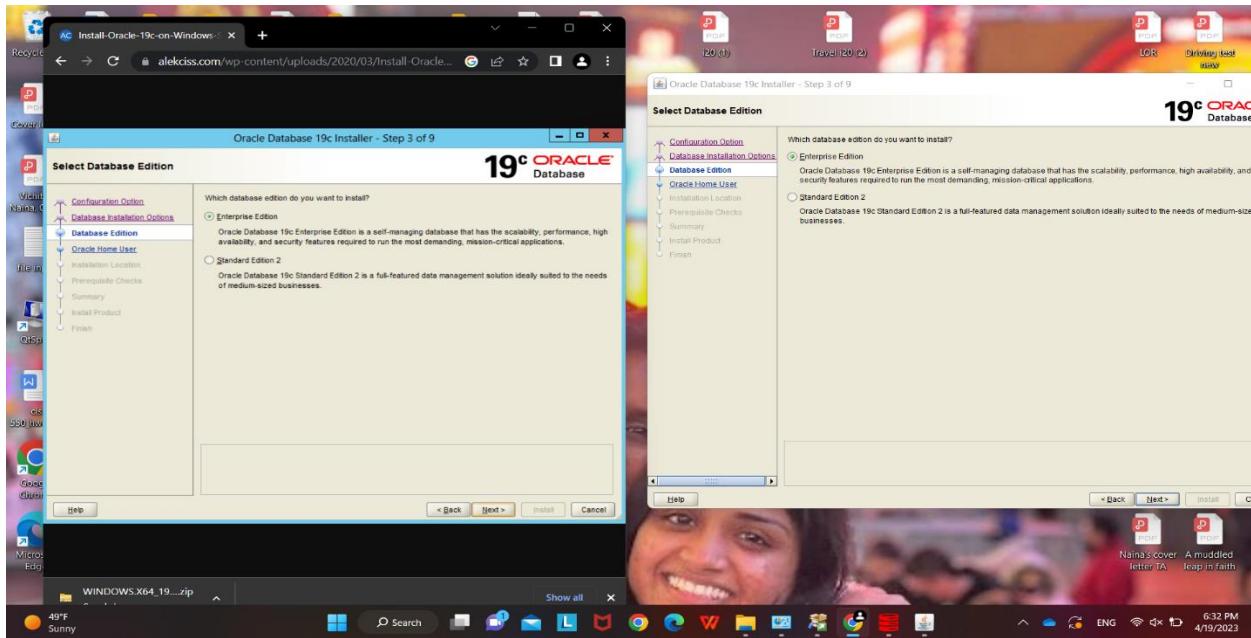
And then run the setup as **Run as administrator** as shown above.



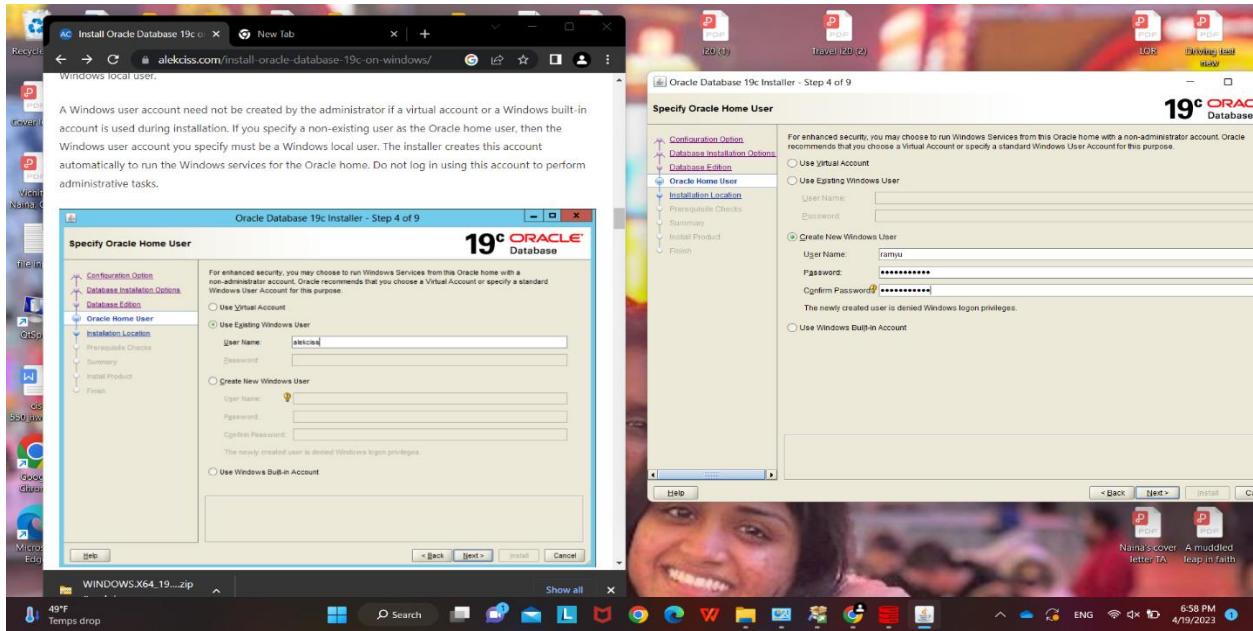
Step 3:



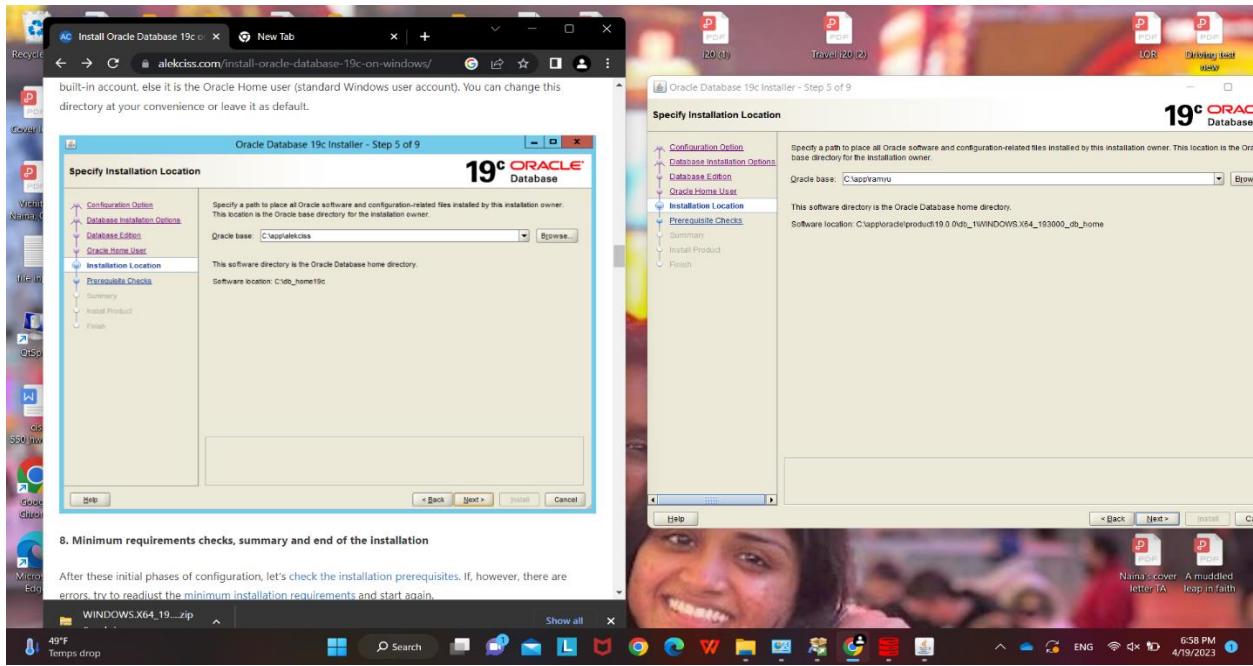
Step 4:



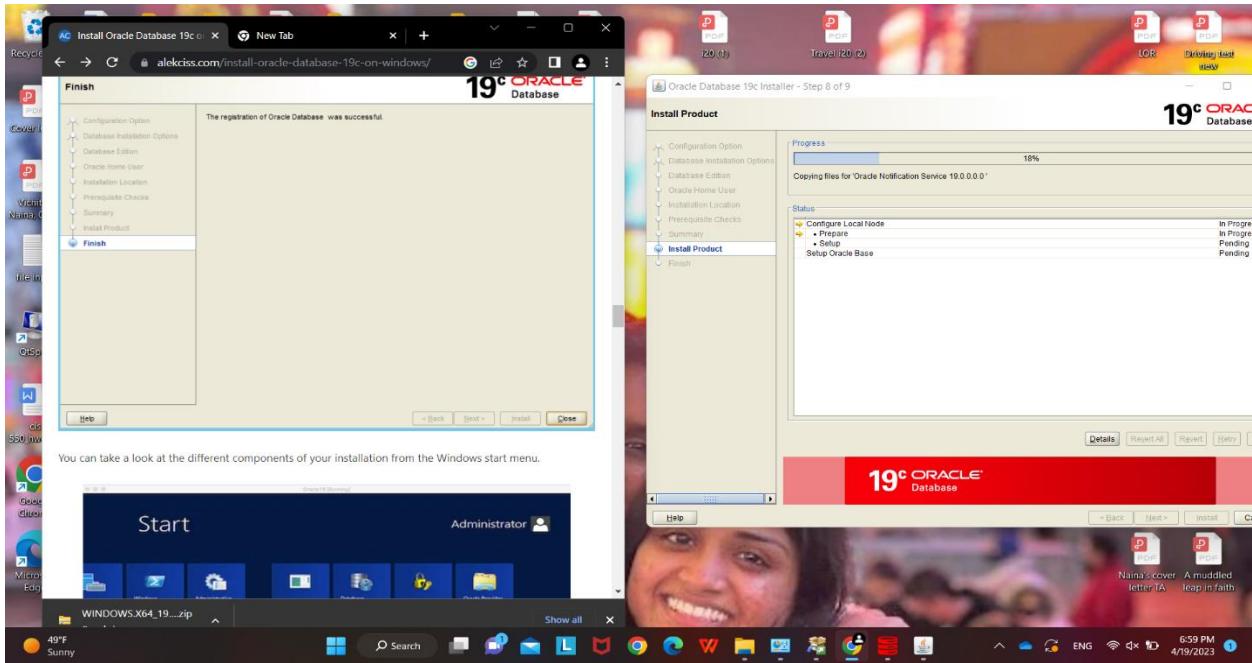
Step 5:



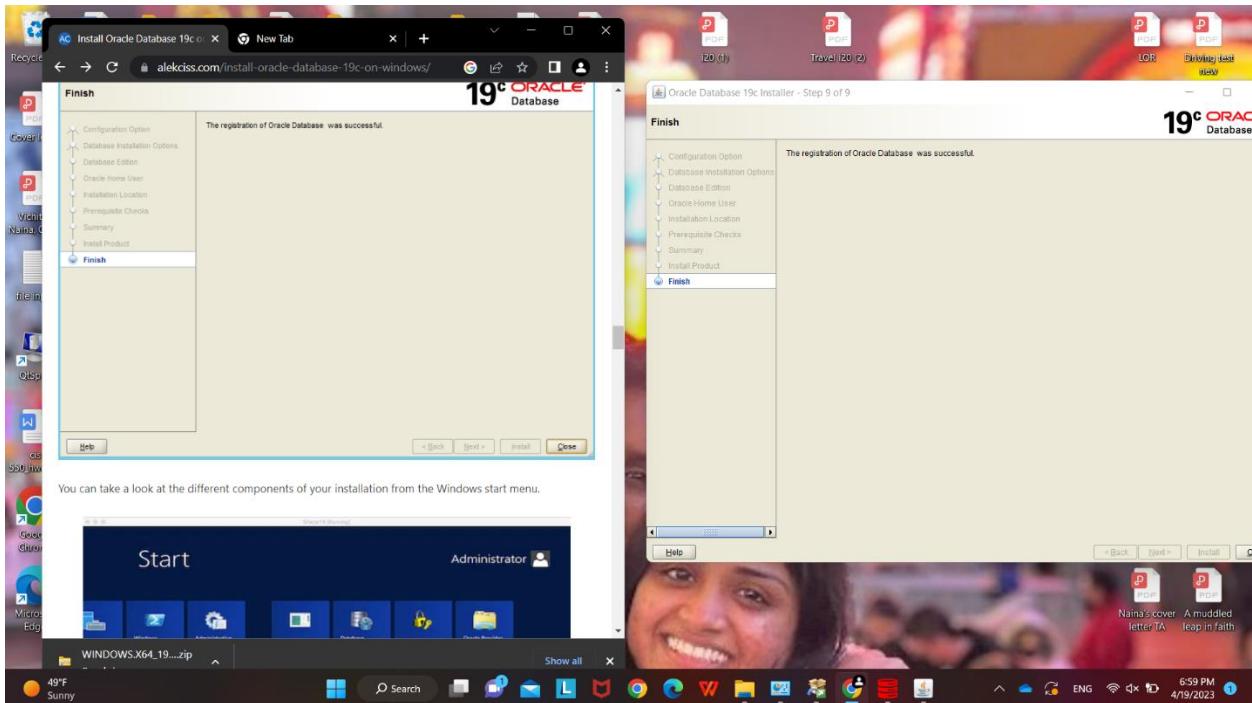
Step 6:



Step 7:

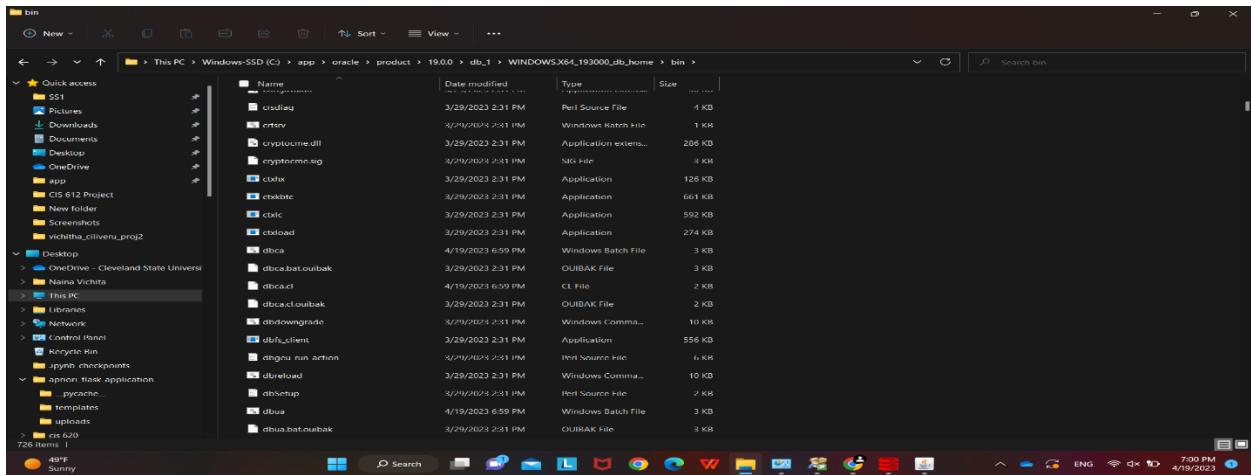


Step 8:

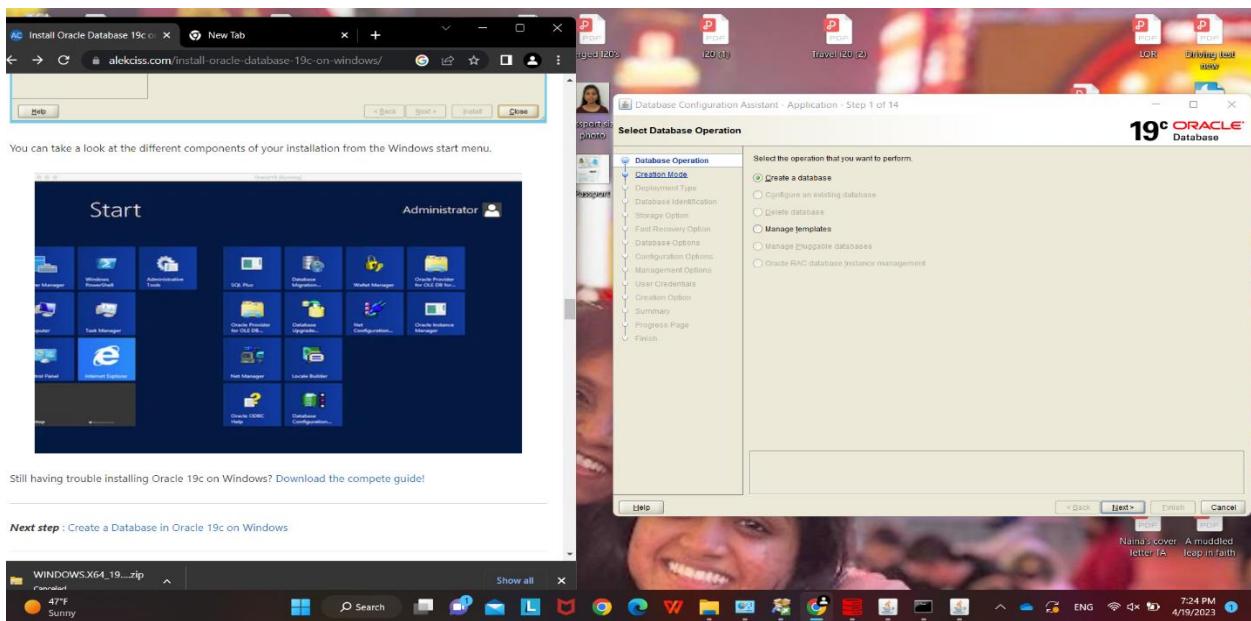


Creation and Setup:

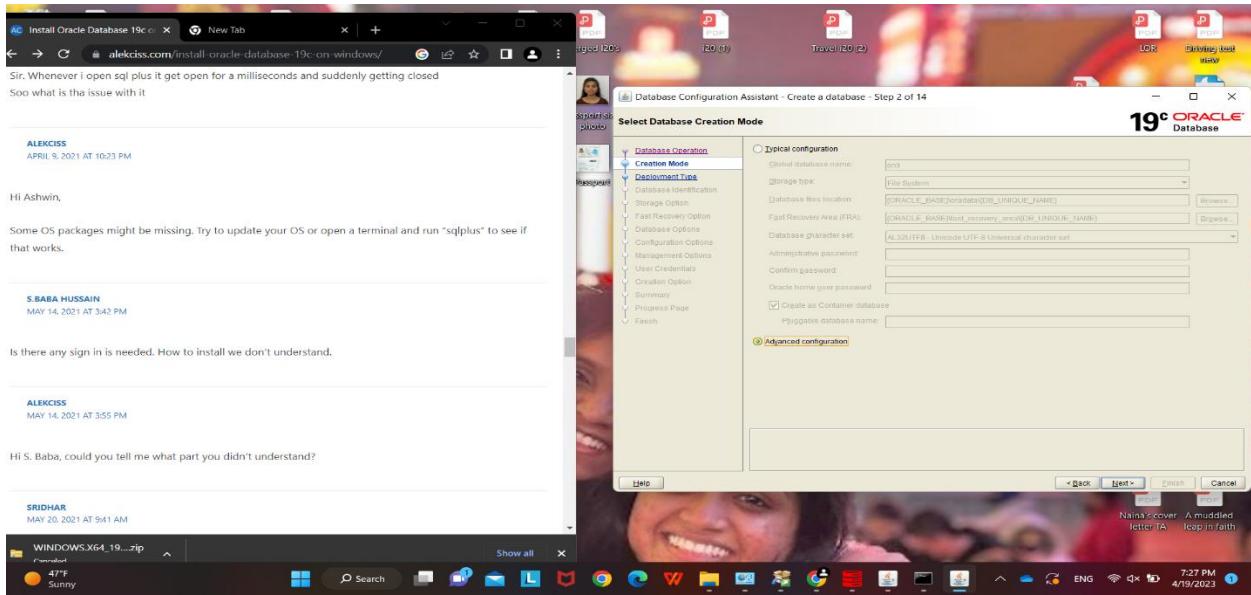
Step 1:



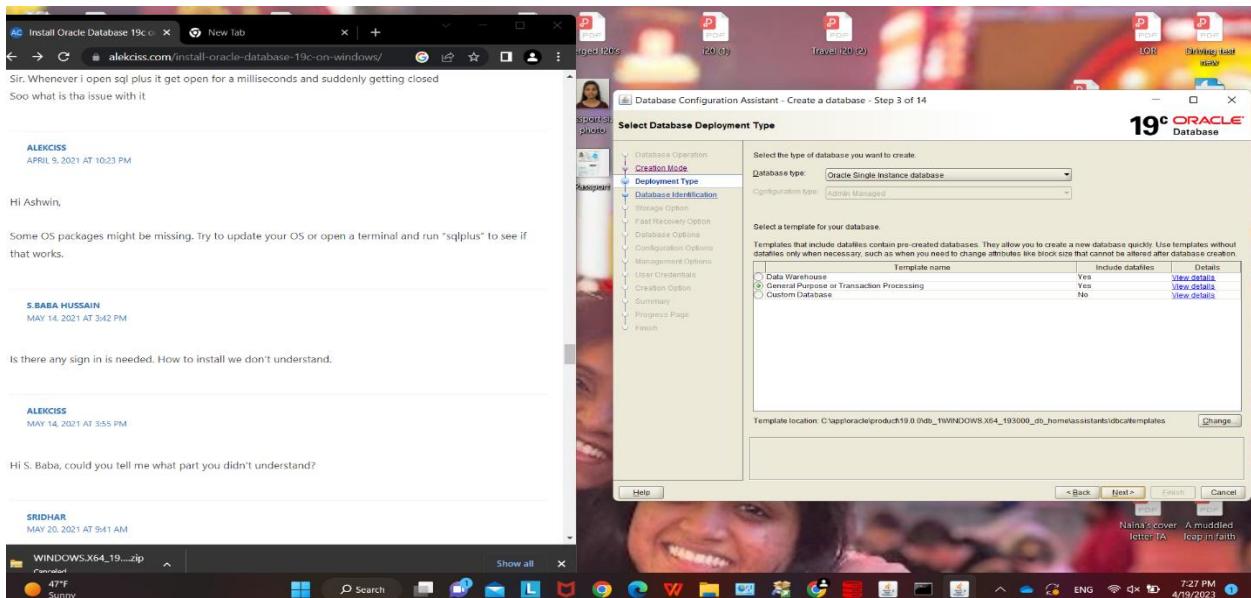
Step 2:



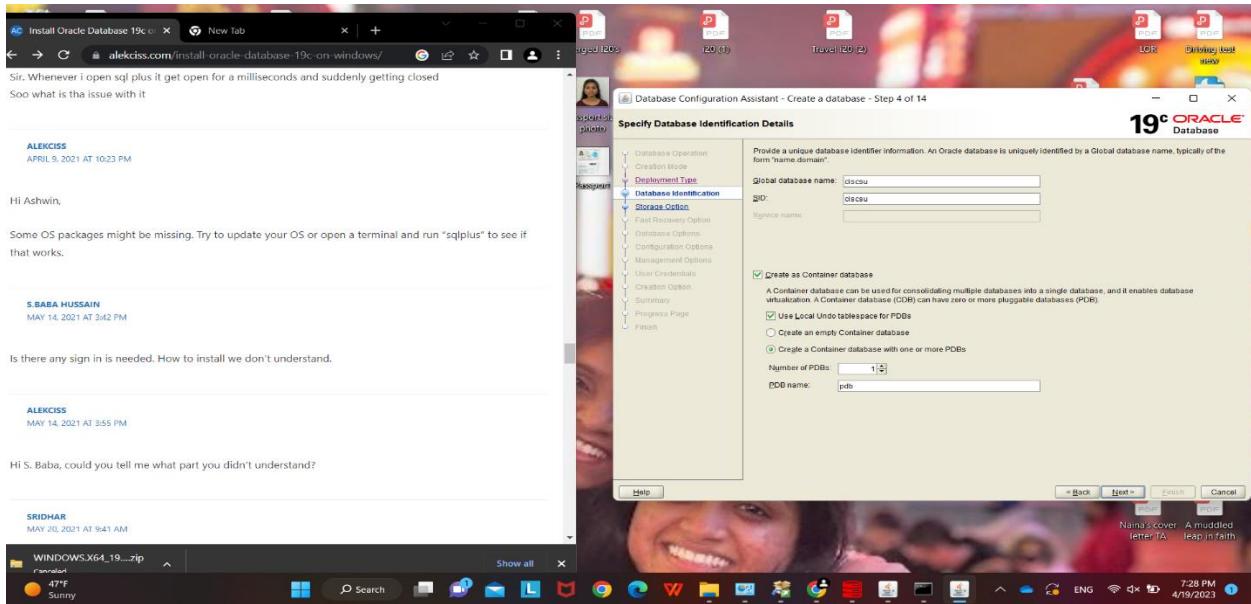
Step 3:



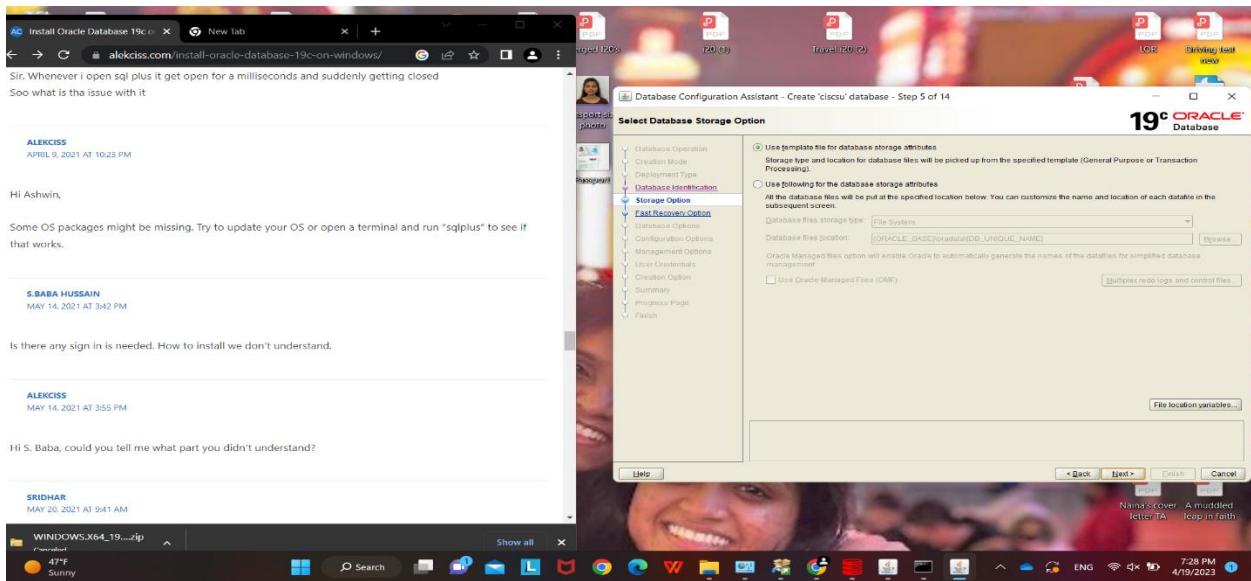
Step 4:



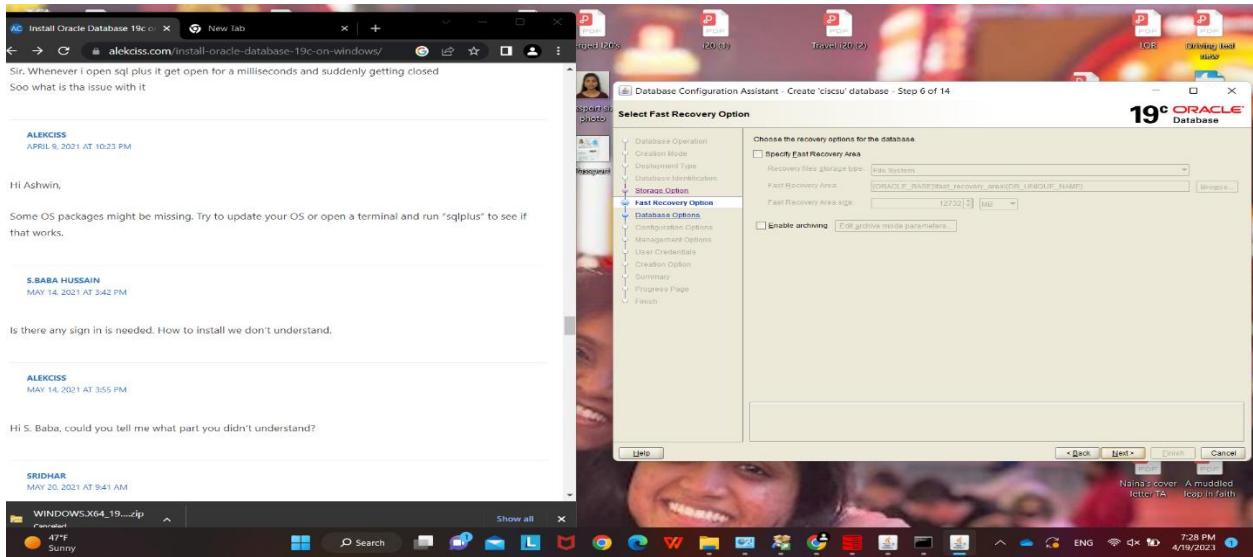
Step 5:



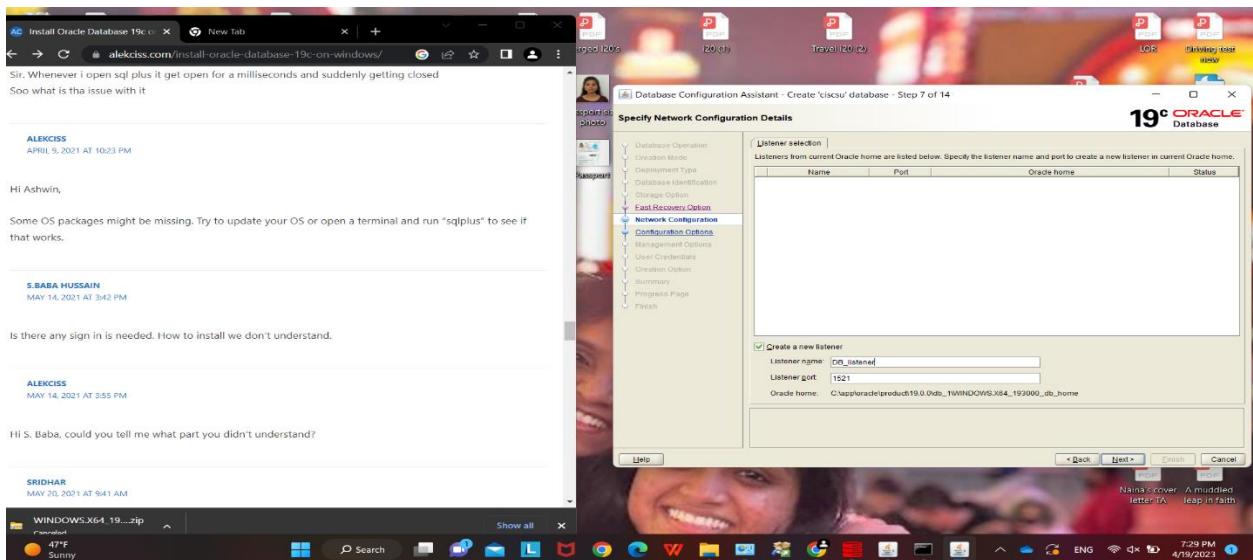
Step 6:



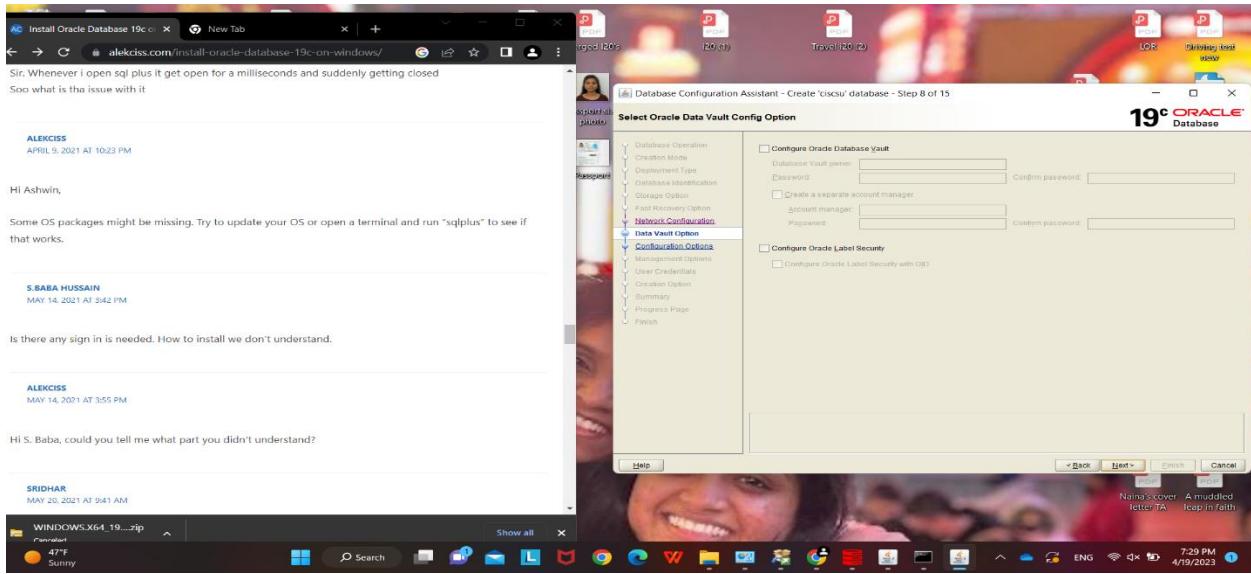
Step 7:



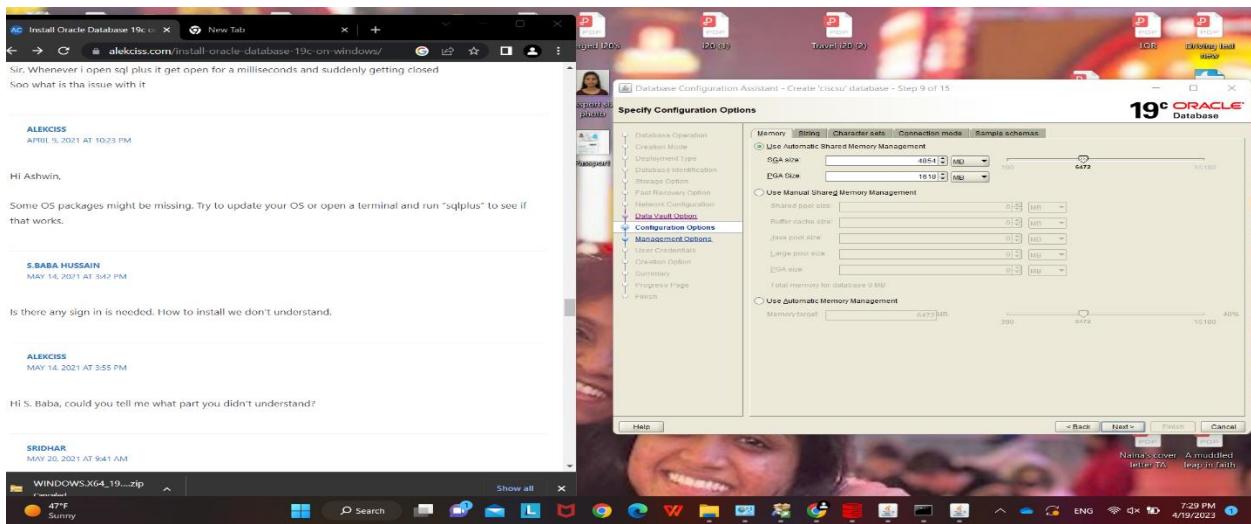
Step 8:



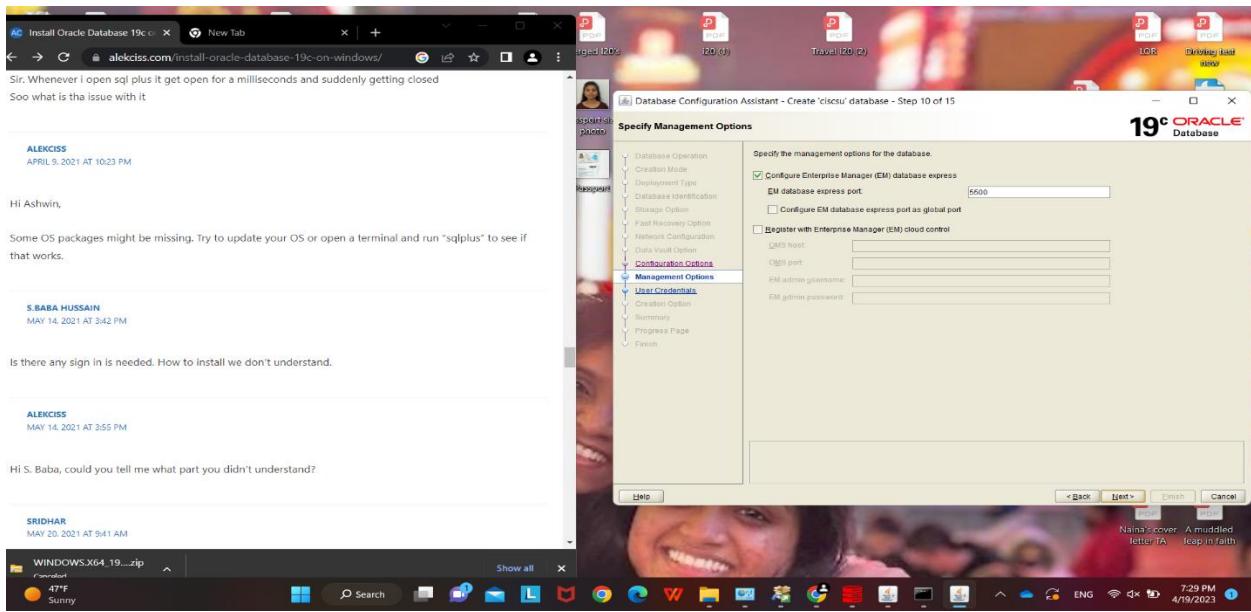
Step 9:



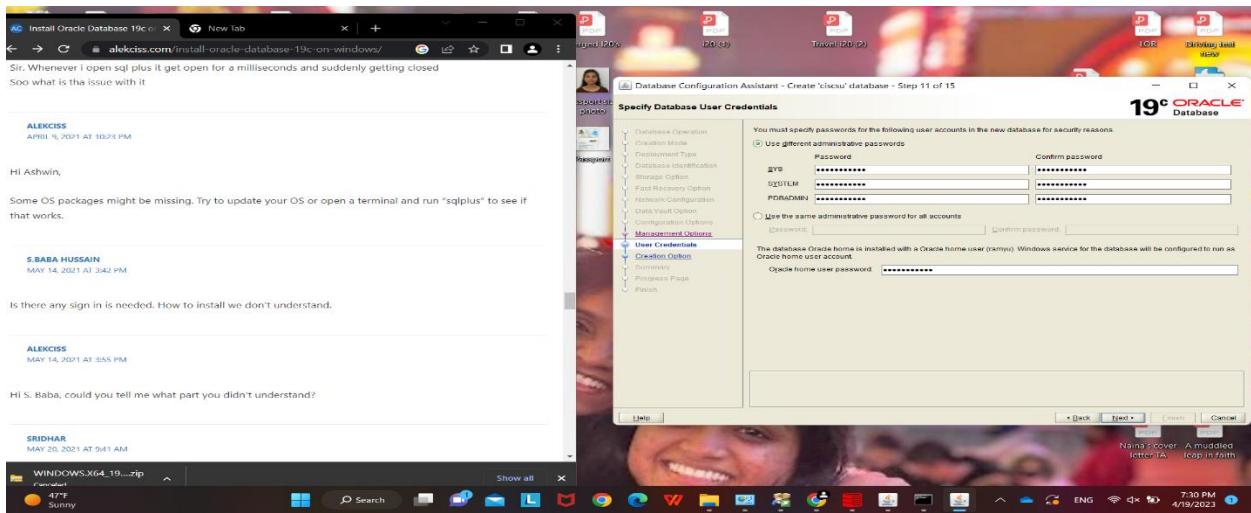
Step 10:



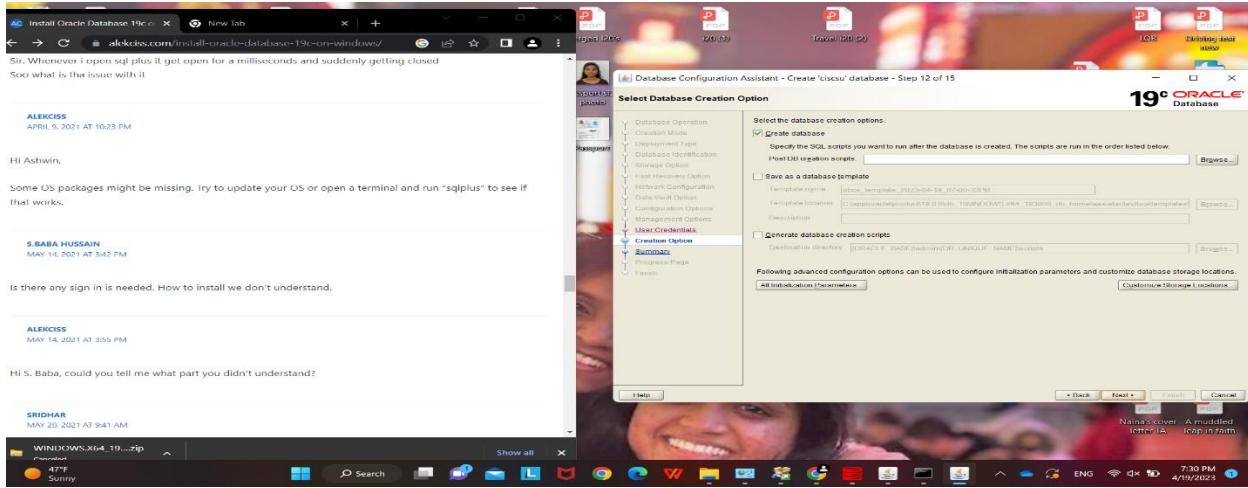
Step 11:



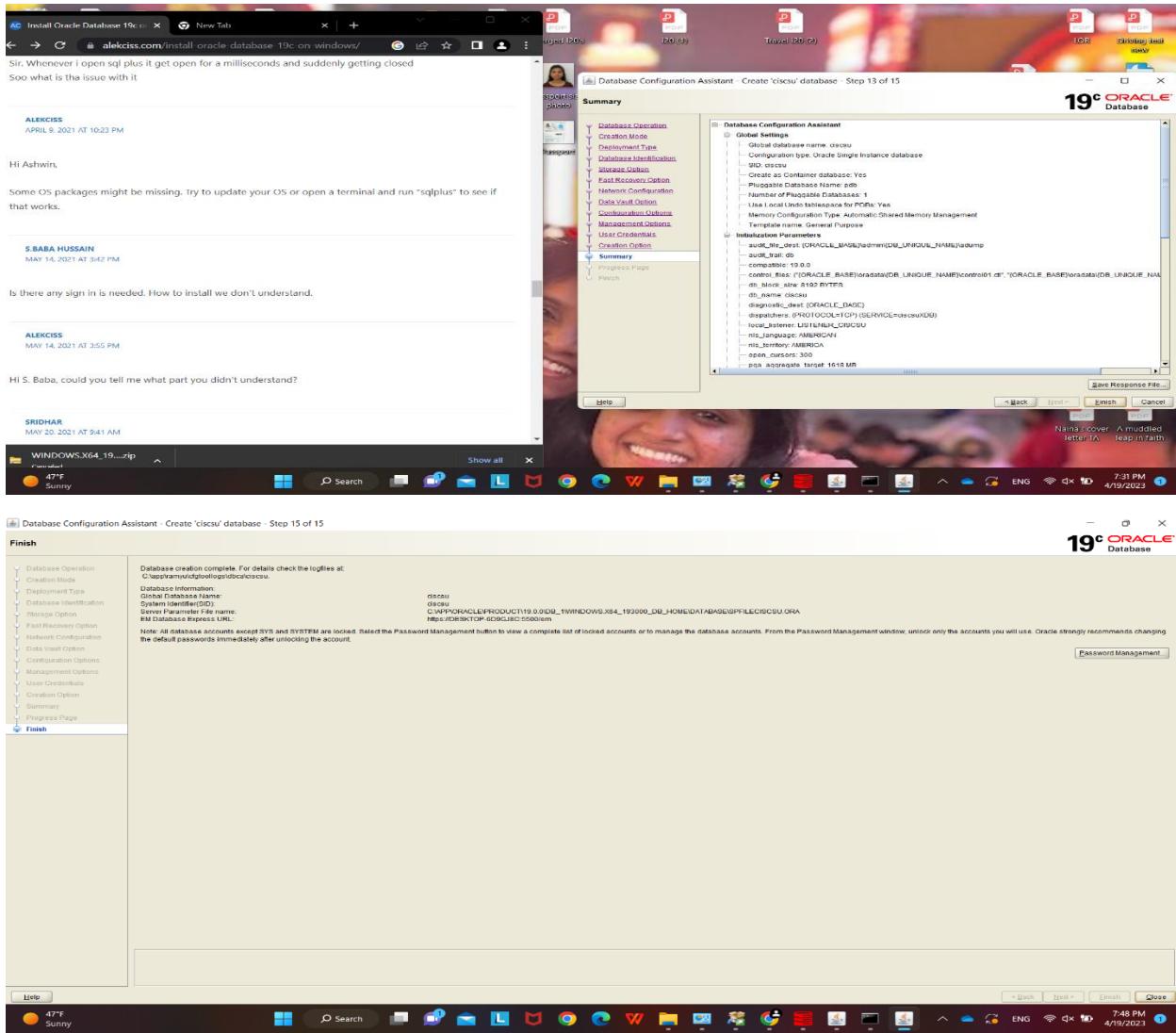
Step 12:



Step 13:

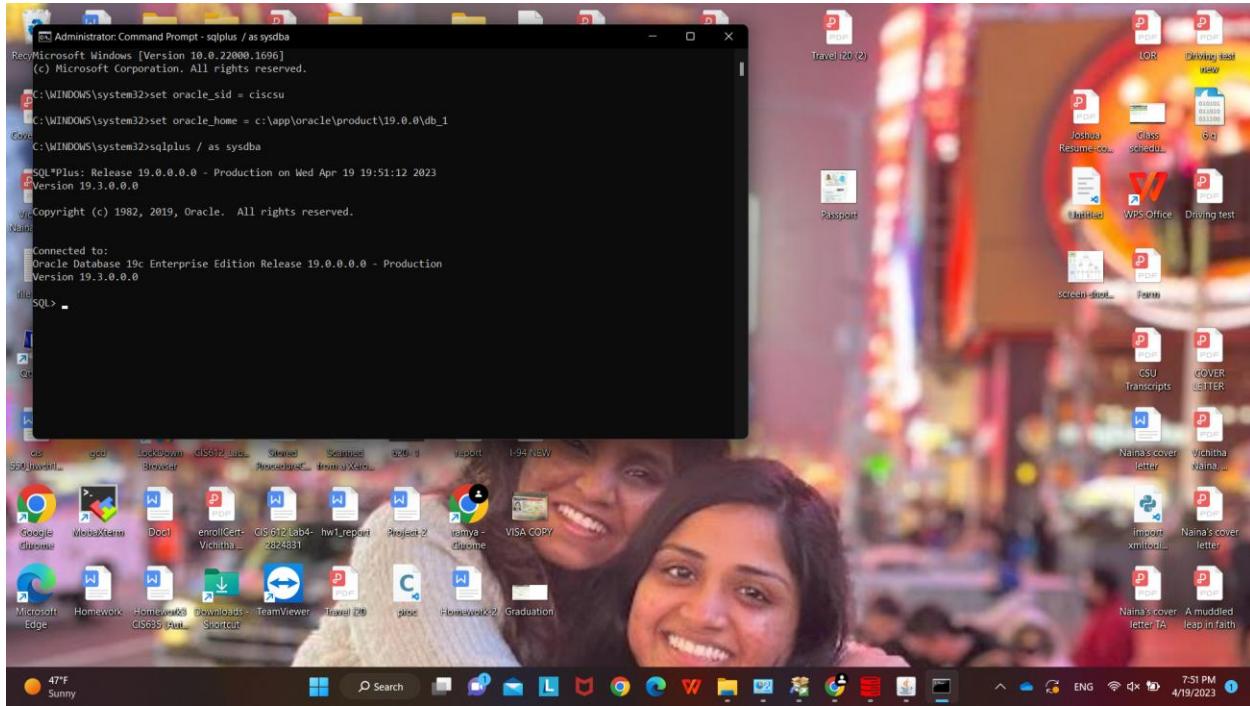


Step 14:

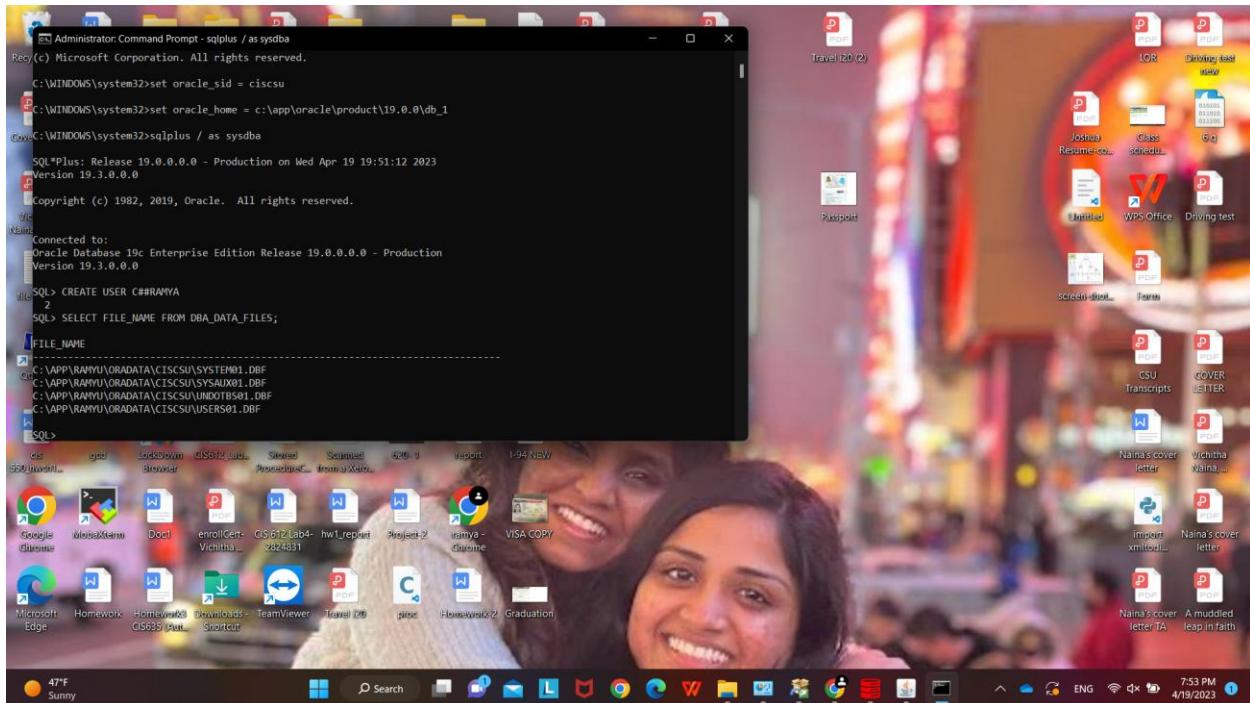


4. Business Requirements

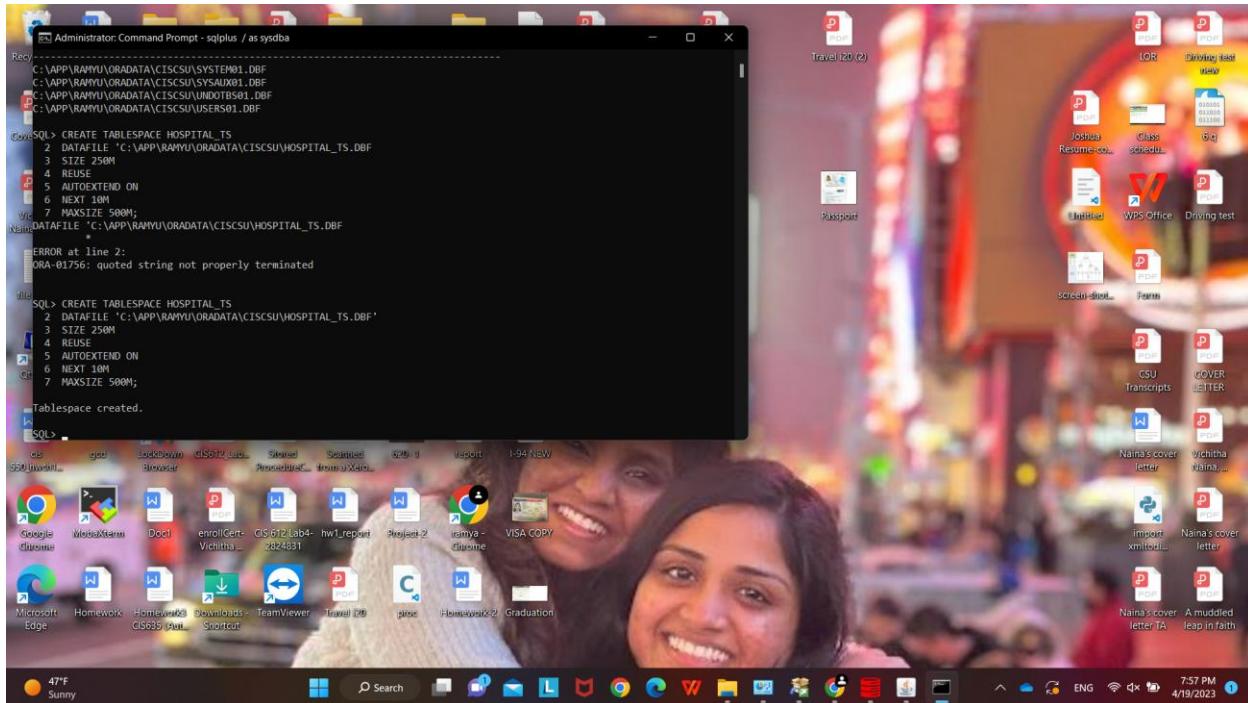
Collected data from the Cleveland Clinic and using SQL in Command Prompt created and inserted all the tables and columns and rows according to the rules. And performed few Queries.



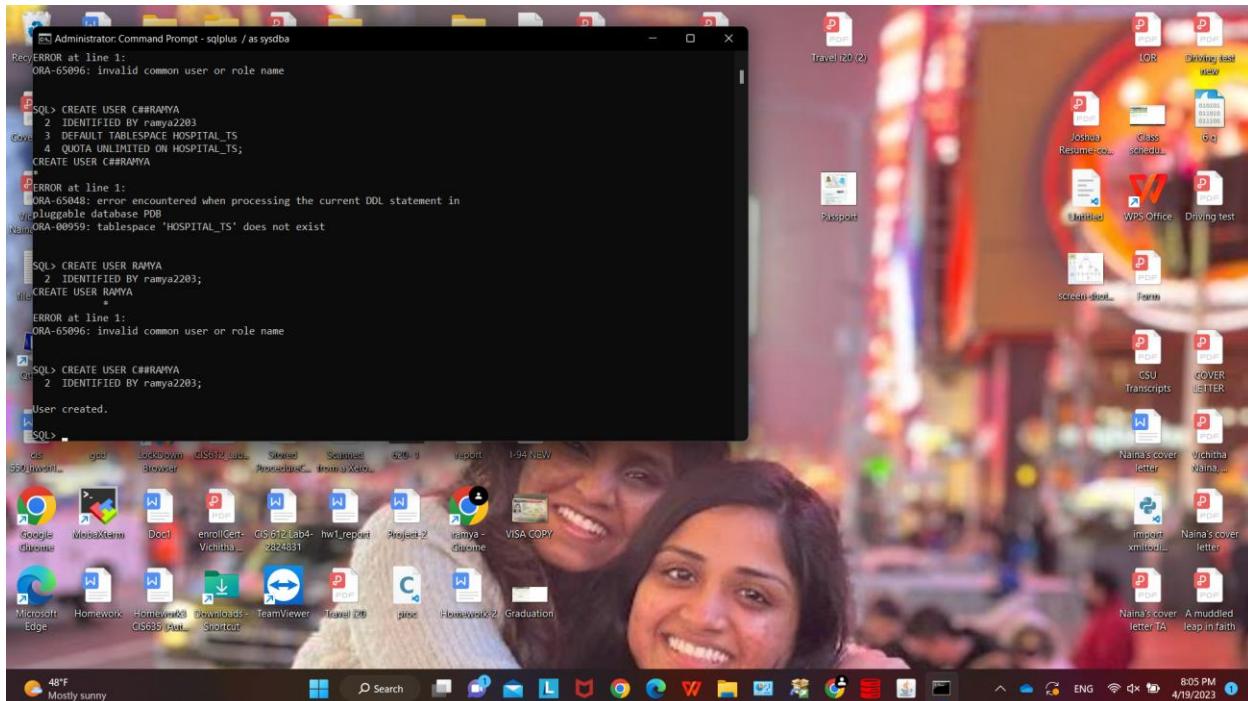
Next step is as follows,



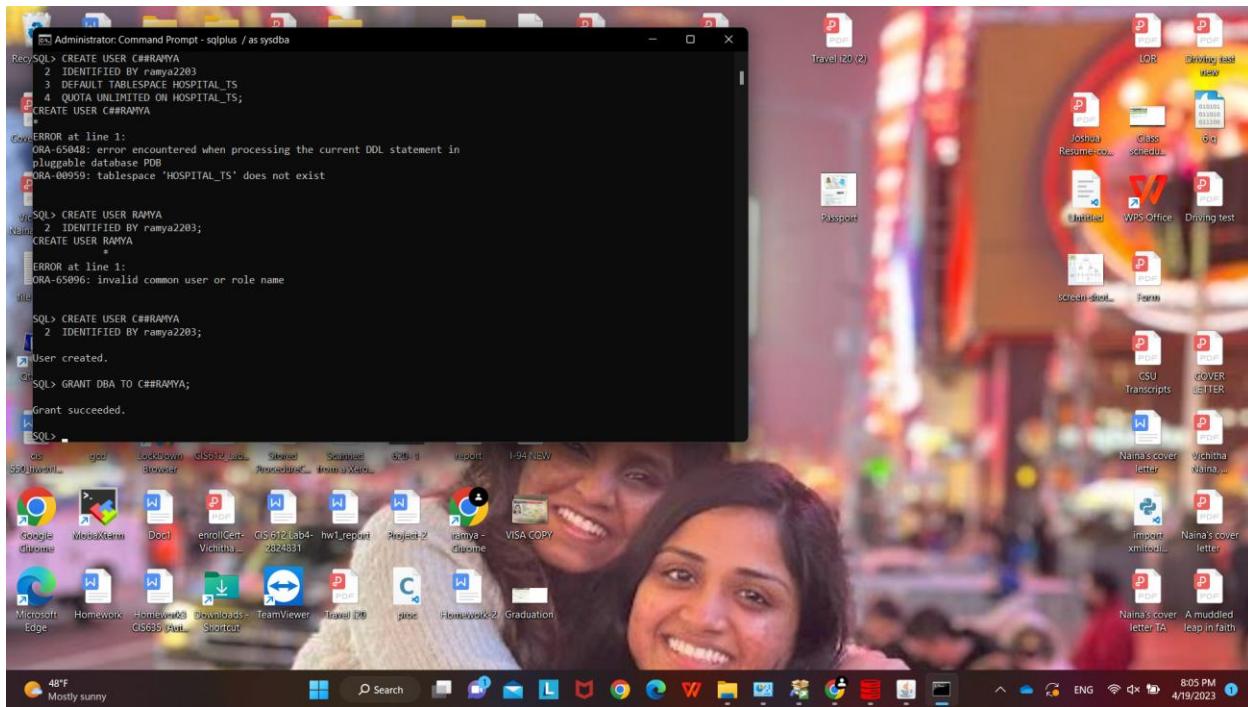
Next we need to create table space.



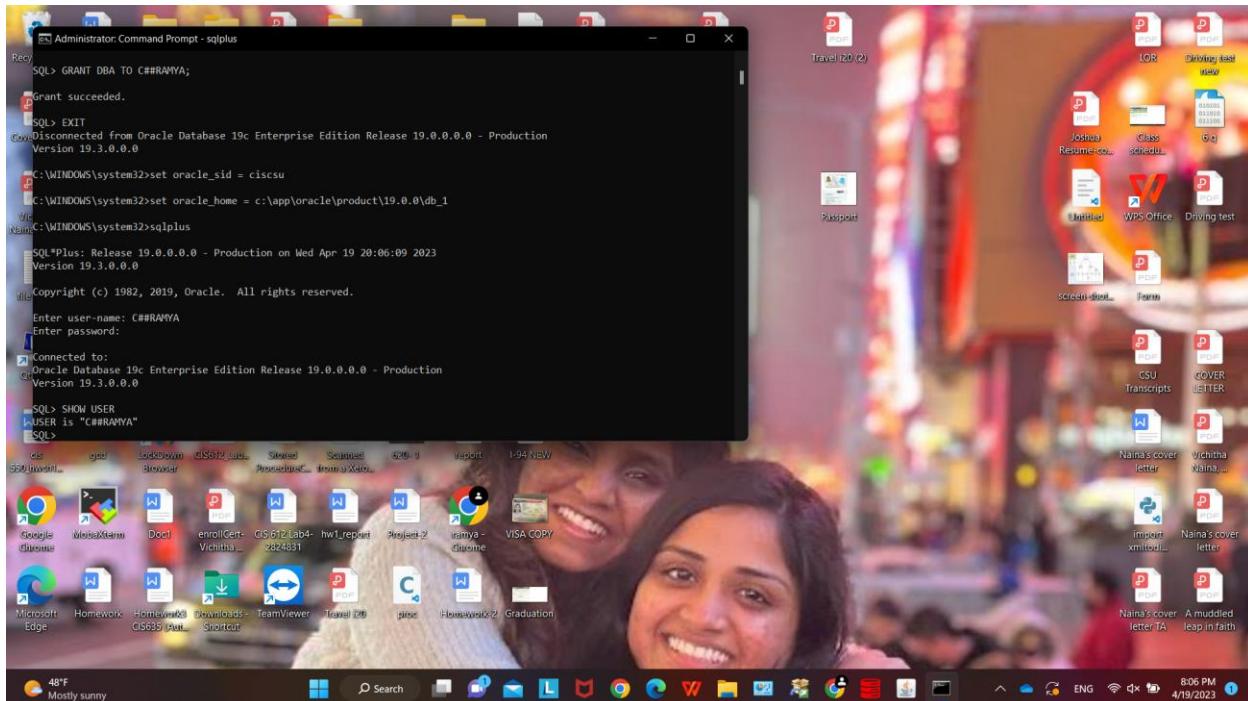
After creating table space next step is as follows, ie you need to create user.



Giving privileges.



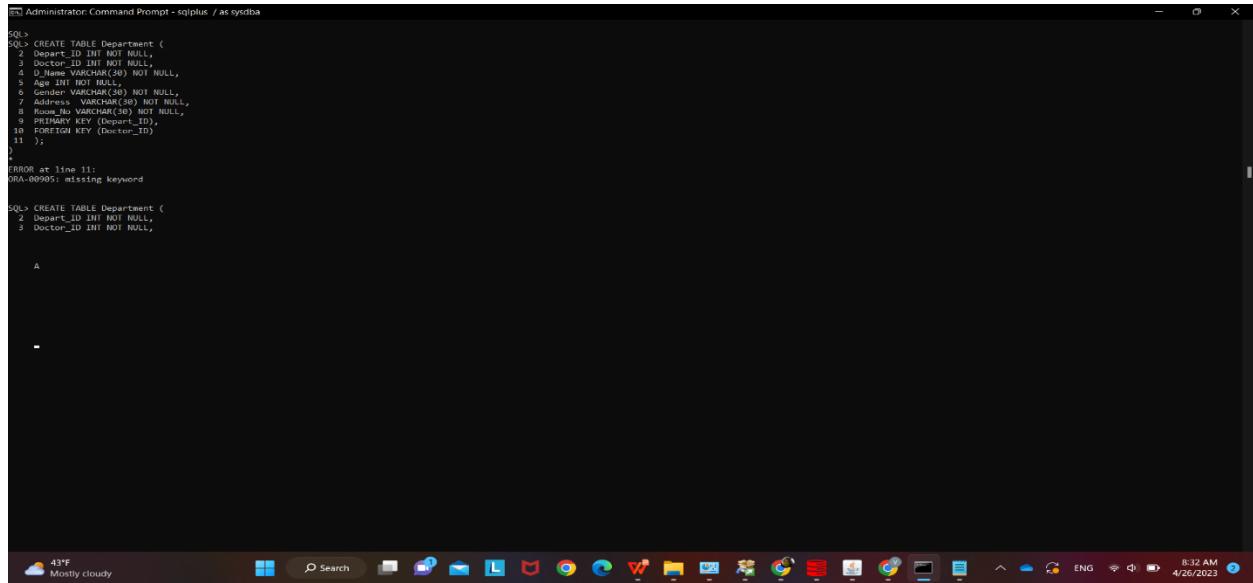
Give following command to see the user,



5. Planning and Designing the Application

While planning and designing I faced a lot of errors and syntax issues.

Few are below mentioned.



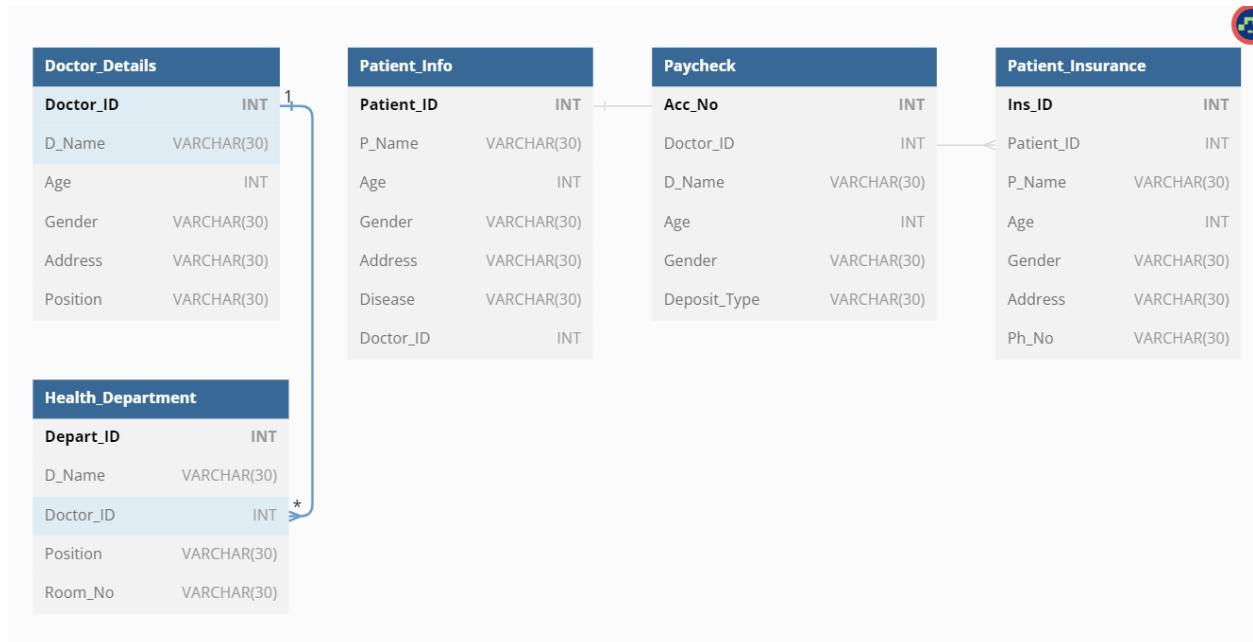
```
Administrator: Command Prompt - sqlplus / as sysdba
SQL> CREATE TABLE Department (
  1 >   Depart_ID INT NOT NULL,
  2 >   Doctor_ID INT NOT NULL,
  3 >   D_Name VARCHAR(30) NOT NULL,
  4 >   Address VARCHAR(30) NOT NULL,
  5 >   Room_No VARCHAR(30) NOT NULL,
  6 >   FOREIGN KEY (Depart_ID),
  7 >   FOREIGN KEY (Doctor_ID),
  8 > );
  9 >
 10 > ERROR at line 11:
 11 > ORA-00905: missing keyword
 12 >

SQL> CREATE TABLE Department (
  1 >   Depart_ID INT NOT NULL,
  2 >   Doctor_ID INT NOT NULL,
  3 > );
  4 >
 5 > A
```

Error is missing keyword.

6. ER Diagram

The below diagram is ER diagram of the following Project.



7. Tables

- **Doctor_Details:**

```
CREATE TABLE Doctor_Details (
    Doctor_ID INT NOT NULL,
    D_Name VARCHAR(30) NOT NULL,
    Age INT NOT NULL,
    Gender VARCHAR(30) NOT NULL,
    Address VARCHAR(30) NOT NULL,
    Position VARCHAR(30) NOT NULL,
    PRIMARY KEY (Doctor_ID)
);
```

```
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13051, 'John Kelvin', 30, 'Male', '304 S Cottage Ave', 'Physician');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13052, 'Samantha Reemer', 32, 'Female', '1528 Chester Ave', 'Gyno Surgeon');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13053, 'Marc Gullory', 33, 'Male', '1700 chester Ave', 'Gyno Surgeon');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13054, 'Prince Carl', 29, 'Male', '314 Lofts', 'Gyno Surgeon');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13055, 'Stephanie Miller', 27, 'Female', '2121 Euclid Ave', 'Oncologist');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13056, 'Matthew Barrows', 45, 'Male', '629 Chester Ave', 'Physician');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13057, 'Jennifer Green', 52, 'Female', '123 S Taylor RD', 'Oncologist');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13058, 'Mimi Casper', 41, 'Female', '154 Cedar Road', 'Physician');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13059, 'Jeff Benett', 39, 'Male', '216 Collin Road', 'Cardiac Surgeon');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13060, 'Rebacca Walsh', 38, 'Female', '8951 Oakdale RD', 'Physician');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13061, 'Mallika', 40, 'Female', '510 S Cottage Road', 'Cardiac Surgeon');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13062, 'Macy Marx', 28, 'Female', '714 Winter Shadow Loop', 'Oncologist');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13063, 'Kevin Whirity', 47, 'Male', '1000 Lee Drive', 'Physician');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13064, 'Sarah Shah', 51, 'Female', '1234 WestLake Drive', 'Gyno Surgeon');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
```

```

VALUES (13065, 'Daniel Weiner', 60, 'Male', '2000 Miler Drive', 'Cardiac Surgeon');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13066, 'Susan Elliott', 57, 'Female', '199 WestMinster Drive', 'Oncologist');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13067, 'Rob Cameron', 35, 'Male', '555 Griffin RD', 'Physician');

```

The screenshot shows a WPS Office interface with two windows open. The left window is titled 'ramyu db commands' and contains SQL code for creating a table and inserting data. The right window is titled 'Administrator: Command Prompt - sqlplus / as sysdba' and shows the execution of the SQL commands, with the message 'Table created.' displayed. The taskbar at the bottom shows various application icons and system status.

```

CREATE TABLE Doctor_Details (
    Doctor_ID INT NOT NULL,
    D_Name VARCHAR(30) NOT NULL,
    Age INT NOT NULL,
    Gender VARCHAR(30) NOT NULL,
    Address VARCHAR(30) NOT NULL,
    Position VARCHAR(30) NOT NULL,
    PRIMARY KEY (Doctor_ID)
);

INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13065, 'Daniel Weiner', 60, 'Male', '2000 Miler Drive', 'Cardiac Surgeon');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13066, 'Susan Elliott', 57, 'Female', '199 WestMinster Drive', 'Oncologist');
INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
VALUES (13067, 'Rob Cameron', 35, 'Male', '555 Griffin RD', 'Physician');

Table created.

```

- **Patient_Info:**

```

CREATE TABLE Patient_Info (
    Patient_ID INT NOT NULL,
    P_Name VARCHAR(30) NOT NULL,
    Age INT NOT NULL,
    Gender VARCHAR(30) NOT NULL,
    Address VARCHAR(30) NOT NULL,
    Disease VARCHAR(30) NOT NULL,
    Doctor_ID INT NOT NULL,
    PRIMARY KEY (Patient_ID)
);

```

```

INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1001, 'Bekah Williams', 35, 'Female', '750 Mckinney RD', 'Viral Fever', 13067);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1002, 'Ashley Leeper', 45, 'Female', '181 Corner Ave', 'Lung Cancer', 13057);

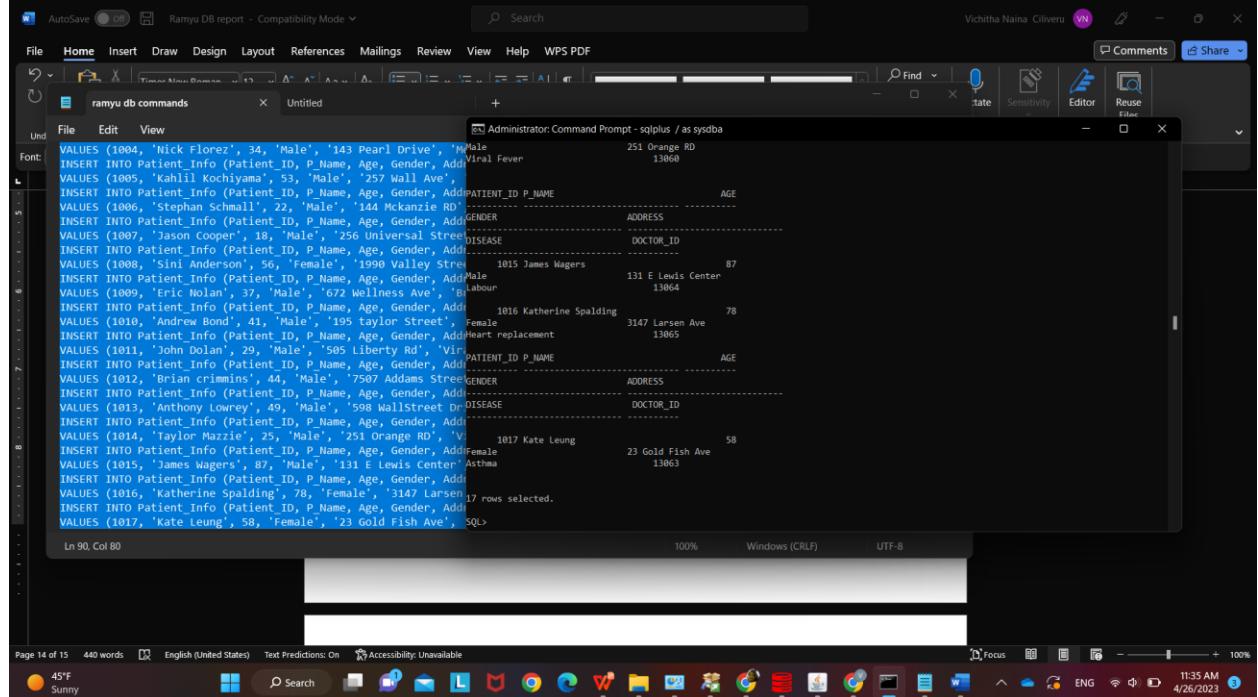
```

```
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1003, 'Joe Little', 40, 'Male', '423 Main Street', 'Melanoma', 13055);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1004, 'Nick Florez', 34, 'Male', '143 Pearl Drive', 'Menstrual Disorder', 13052);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1005, 'Kahlil Kochiyama', 53, 'Male', '257 Wall Ave', 'Tumor', 13062);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1006, 'Stephan Schmall', 22, 'Male', '144 Mckanzie RD', 'Pneumonia', 13051);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1007, 'Jason Cooper', 18, 'Male', '256 Universal Street', 'Cervica Dupllicia', 13053);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1008, 'Sini Anderson', 56, 'Female', '1990 Valley Street Drive', 'Cradiac Arrest', 13059);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1009, 'Eric Nolan', 37, 'Male', '672 Wellness Ave', 'Brain Tumor', 13066);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1010, 'Andrew Bond', 41, 'Male', '195 taylor Street', 'Asthma', 13056);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1011, 'John Dolan', 29, 'Male', '505 Liberty Rd', 'Viral Fever', 13060);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1012, 'Brian crimmins', 44, 'Male', '7507 Addams Street', 'Cysts', 13054);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1013, 'Anthony Lowrey', 49, 'Male', '598 WallStreet Drive', 'Stent Placement', 13061);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1014, 'Taylor Mazzie', 25, 'Male', '251 Orange RD', 'Viral Fever', 13060);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1015, 'James Wagers', 87, 'Male', '131 E Lewis Center', 'Labour', 13064);
```

```

INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1016, 'Katherine Spalding', 78, 'Female', '3147 Larsen Ave', 'Heart replacement', 13065);
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1017, 'Kate Leung', 58, 'Female', '23 Gold Fish Ave', 'Asthma', 13063);

```



The screenshot shows a Microsoft Word document titled "ramyu db commands" containing several SQL INSERT statements. The statements are as follows:

```

VALUES (1004, 'Nick Florez', 34, 'Male', '143 Pearl Drive', 'Male' 251 Orange RD
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1005, 'Kahili Kochiyama', 53, 'Male', '257 Wall Ave' 13060
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1006, 'Stephan Schmall', 22, 'Male', '144 McKenzie Rd' 87
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1007, 'Jason Cooper', 18, 'Male', '256 Universal Street' 13064
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1008, 'Sini Anderson', 56, 'Female', '1990 Valley Street' 1015 James Wagers
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1009, 'Eric Nolan', 37, 'Male', '672 Wellness Ave', 'Labour' 13065
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1010, 'Andrew Bond', 41, 'Male', '195 Taylor Street', 'Female' 3147 Larsen Ave
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1011, 'John Dolan', 29, 'Male', '508 Liberty Rd', 'Viral Fever' 13066
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1012, 'Brian Crimmins', 44, 'Male', '7507 Adams Street' 13067
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1013, 'Anthony Lowrey', 49, 'Male', '598 Wallstreet Dr' 13068
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1014, 'Taylor Mazzie', 25, 'Male', '251 Orange Rd', 'Viral Fever' 1017 Kate Leung
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1015, 'James Wagers', 87, 'Male', '131 E Lewis Center' 'Asthma' 23 Gold Fish Ave
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1016, 'Katherine Spalding', 78, 'Female', '3147 Larsen Ave' 13063
INSERT INTO Patient_Info (Patient_ID, P_Name, Age, Gender, Address, Disease, Doctor_ID)
VALUES (1017, 'Kate Leung', 58, 'Female', '23 Gold Fish Ave', 'Asthma' 13063

```

The status bar at the bottom of the Word window indicates "17 rows selected".

- **Paycheck:**

```

CREATE TABLE Paycheck (
Acc_No INT NOT NULL,
Doctor_ID INT NOT NULL,
D_Name VARCHAR(30) NOT NULL,
Age INT NOT NULL,
Gender VARCHAR(30) NOT NULL,
Deposit_Type VARCHAR(30) NOT NULL,
PRIMARY KEY (Acc_No)
);

```

```

INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456789, 13051, 'John Kelvin', 30, 'Male', 'Direct Deposit');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456788, 13052, 'Samantha Reemer', 32, 'Female', 'Cheque');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456787, 13053, 'Marc Gullory', 33, 'Male', 'Cash');

```

```

INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456786, 13054, 'Prince Carl', 29, 'Male', 'Direct Deposit');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456785, 13055, 'Stephanie Miller', 27, 'Female', 'Direct Deposit');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456784, 13056, 'Matthew Barrows', 45, 'Male', 'Cheque');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456783, 13057, 'Jennifer Green', 52, 'Male', 'Direct Deposit');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456782, 13058, 'Mimi Casper', 41, 'Female', 'Cheque');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456781, 13059, 'Jeff Bennett', 39, 'Male', 'Cheque');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (123456780, 13060, 'Rebecca Walsh', 38, 'Female', 'Direct Deposit');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (023456780, 13061, 'Mallika', 40, 'Female', 'Cash');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (234156780, 13062, 'Macy Marx', 28, 'Female', 'Cash');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (235146780, 13063, 'Kevin Whirity', 47, 'Male', 'Direct Deposit');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (212135680, 13064, 'Sarah Shah', 51, 'Female', 'Cash');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (313541692, 13065, 'Daniel Weiner', 60, 'Male', 'Cheque');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (678200141, 13066, 'Susan Elliott', 57, 'Female', 'Direct Deposit');
INSERT INTO Paycheck (Acc_No, Doctor_ID, D_Name, Age, Gender, Deposit_Type)
VALUES (214816123, 13067, 'Rob Cameron', 35, 'Male', 'Cash');

```

- **Patient_Insurance:**

```

CREATE TABLE Patient_Insurance (
    Ins_ID INT NOT NULL,
    Patient_ID INT NOT NULL,
    P_Name VARCHAR(30) NOT NULL,
    Age INT NOT NULL,
    Gender VARCHAR(30) NOT NULL,
    Address VARCHAR(30) NOT NULL,
    Ph_No VARCHAR(30),

```

PRIMARY KEY (Ins_ID),
FOREIGN KEY (Patient_ID) REFERENCES Patient_info(Patient_ID)
);
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address,
Ph_No)
VALUES (300, 1001, 'Bekah Williams', 35, 'Female', '750 Mckinney RD', '+1 (216) 512
7280');
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address,
Ph_No)
VALUES (301, 1002, 'Ashley Leeper', 45, 'Female', '181 Corner Ave', '+1 (216) 623
3121');
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address,
Ph_No)
VALUES (302, 1003, 'Joe Little', 40, 'Male', '423 Main Street', '+1 (216) 721 7215');
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address,
Ph_No)
VALUES (303, 1004, 'Nick Florez', 34, 'Male', '143 Pearl Drive', '+1 (216) 321 0014');
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address,
Ph_No)
VALUES (304, 1005, 'Kahlil Kochiyama', 53, 'Male', '257 Wall Ave', '+1 (216) 368
2121');
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address,
Ph_No)
VALUES (305, 1006, 'Stephan Schmall', 22, 'Male', '144 Mckanzie RD', '+1 (216) 541
7289');
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address,
Ph_No)
VALUES (306, 1007, 'Jason Cooper', 18, 'Male', '256 Universal Street', '+1 (216) 790
3679');
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address,
Ph_No)
VALUES (307, 1008, 'Sini Anderson', 56, 'Female', '1990 Valley Street Drive', '+1 (216)
888 0121');

```
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (308, 1009, 'Eric Nolan', 37, 'Male', '672 Wellness Ave', '+1 (216) 750 1234');

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (309, 1010, 'Andrew Bond', 41, 'Male', '195 taylor Street', '+1 (216) 266 3241');

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (310, 1011, 'John Dolan', 29, 'Male', '505 Liberty Rd', '+1 (216) 808 7091');

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (311, 1012, 'Brian crimmins', 44, 'Male', '7507 Addams Street', '+1 (216) 621 3219');

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (312, 1013, 'Anthony Lowrey', 49, 'Male', '598 WallStreet Drive', '+1 (216) 281 8161');

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (313, 1014, 'Taylor Mazzie', 25, 'Male', '251 Orange RD', '+1 (216) 768 0314');

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (314, 1015, 'James Wagers', 87, 'Male', '131 E Lewis Center', '+1 (216) 255 7283');

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (315, 1016, 'Katherine Spalding', 78, 'Female', '3147 Larsen Ave', '+1 (216) 677 2101');

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (316, 1017, 'Kate Leung', 58, 'Female', '23 Gold Fish Ave', '+1 (216) 701 3014');
```

```

INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (301, 1002, 'Ashley Leeper', 45, 'Female', '181 Corner Rd', '+1 (216) 768 0314')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (302, 1003, 'Joe Little', 40, 'Male', '423 Main Street', '+1 (216) 768 0314')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (303, 1004, 'Nick Florez', 34, 'Male', '143 Pearl Drive', '+1 (216) 768 0314')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (304, 1005, 'Kahlil Kochiyama', 53, 'Male', '257 Wall Ave', '+1 (216) 768 0314')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (305, 1006, 'Stephan Schmall', 22, 'Male', '144 Mckanzie St', '+1 (216) 255 7283')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (306, 1007, 'Jason Cooper', 18, 'Male', '25 Universal St', '+1 (216) 255 7283')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (307, 1008, 'Sini Anderson', 56, 'Female', '1999 Valley', '+1 (216) 677 2101')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (308, 1009, 'Eric Nolan', 37, 'Male', '672 Wellness Ave', '+1 (216) 677 2101')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (309, 1010, 'Andrew Bond', 41, 'Male', '195 Taylor Street', '+1 (216) 677 2101')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (310, 1011, 'John Dolan', 29, 'Male', '50 Liberty Rd', '+1 (216) 677 2101')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (311, 1012, 'Brian crimmins', 44, 'Male', '7507 Addams Ave', '+1 (216) 701 3014')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (312, 1013, 'Anthony Lowrey', 49, 'Male', '598 Wallstreet', '+1 (216) 701 3014')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (313, 1014, 'Taylor Mazzie', 25, 'Male', '251 Orange Rd', '+1 (216) 701 3014')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (314, 1015, 'James Wagers', 87, 'Male', '13 E lewis Center', '+1 (216) 255 7283')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (315, 1016, 'Katherine Spalding', 78, 'Female', '3147 Larsen Ave', '+1 (216) 677 2101')
INSERT INTO Patient_Insurance (Ins_ID, Patient_ID, P_Name, Age, Gender, Address, Ph_No)
VALUES (316, 1017, 'Kate Leung', 58, 'Female', '23 Gold Fish Ave', '+1 (216) 701 3014')

```

- Health_Department:**

```

CREATE TABLE Health_Department (
    Depart_ID INT NOT NULL,
    D_Name VARCHAR(30) NOT NULL,
    Doctor_ID INT NOT NULL,
    Position VARCHAR(30) NOT NULL,
    Room_No VARCHAR(30) NOT NULL,
    PRIMARY KEY (Depart_ID),
    FOREIGN KEY (Doctor_ID) REFERENCES Doctor_Details(Doctor_ID)
);

```

```

INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Room_No)
VALUES (01, 'John Kelvin', 13051, 'Physician', '31A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (02, 'Samantha Reemer', 13052, 'Gyno Surgeon', '32C');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (03, 'Marc Gullory', 13053, 'Gyno Surgeon', '33D');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (04, 'Prince Carl', 13054, 'Gyno Surgeon', '35E');

```

```
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (05, 'Stephanie Miller', 13055, 'Oncologist', '41AC');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (06, 'Matthew Barrows', 13056, 'Physician', '212Z');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (07, 'Jennifer Green', 13057, 'Oncologist', '314A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (08, 'Mimi Casper', 13058, 'Physician', '101D');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (09, 'Jeff Bennett', 13059, 'Cardiac Surgeon', '55E');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (10, 'Rebecca Walsh', 13060, 'Physician', '30A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (11, 'Mallika', 13061, 'Female', 'Cardiac Surgeon', '34E');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (12, 'Macy Marx', 13062, 'Oncologist', '56D');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (13, 'Kevin Whirity', 13063, 'Physician', '77A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (14, 'Sarah Shah', 13064, 'Gyno Surgeon', '10I');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (15, 'Daniel Weiner', 13065, 'Cardiac Surgeon', '15R');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (16, 'Susan Elliott', 13066, 'Oncologist', '16A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (17, 'Rob Cameron', 13067, 'Physician', '18J');
```

The screenshot shows a Microsoft Word document titled "ramyu db commands" containing SQL code. The code is used to insert data into the "Doctor_Details" table. The table has columns: Doctor_ID, D_Name, Age, Gender, Address, Position, and Room_No. The data includes various doctors with their details like name, age, gender, address, and position. The SQL code is as follows:

```

Administrator: Command Prompt - sqlplus / as sysdba
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Cardiac_Surgeon, 55E
VALUES (02, 'Samantha Reemer', 13052, 'Gyno Surgeon', '32C'); 18 Rebecca Walsh 13066
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 30A
VALUES (03, 'Marc Gullory', 13053, 'Gyno Surgeon', '33D');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 30A
VALUES (04, 'Prince Carl', 13054, 'Gyno Surgeon', '35E'); DEPART_ID D_NAME DOCTOR_ID
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 30A
VALUES (05, 'Stephanie Miller', 13055, 'Oncologist', '41AC');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 30A
VALUES (06, 'Mattice Barrows', 13056, 'Physician', '212Z'); Oncologist 56D
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 30A
VALUES (07, 'Jennifer Green', 13057, 'Oncologist', '31AA'); Physician 77A
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 30A
VALUES (08, 'Mimi Casper', 13058, 'Physician', '101D'); 14 Sarah Shah 13064
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Gyno_Surgeon, 10I
VALUES (09, 'Jeff Bennett', 13059, 'Cardiac Surgeon', '55E');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 30A
VALUES (10, 'Rebecca Walsh', 13060, 'Physician', '38A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 30A
VALUES (11, 'Malika', 13061, 'Female', 'Cardiac Surgeon', '34'); 15 Daniel Weiner 13065
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Cardiac_Surgeon, 15R
VALUES (12, 'Macy Marx', 13062, 'Oncologist', '56D');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 16A
VALUES (13, 'Kevin Whirity', 13063, 'Physician', '77A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 16A
VALUES (14, 'Sarah Shah', 13064, 'Gyno Surgeon', '101I'); 17 Rob Cameron 13067
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, P_Physician, 18J
VALUES (15, 'Daniel Weiner', 13065, 'Cardiac Surgeon', '15R');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (16, 'Susan Elliott', 13066, 'Oncologist', '16A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (17, 'Rob Cameron', 13067, 'Physician', '18J');

```

8. SQL Queries:

1. SELECT * from Doctor_Details;

This query helps us to view all the data that table contains.

2. INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)

VALUES (13051, 'John Kelvin', 30, 'Male', '304 S Cottage Ave', 'Physician');

This query helps us to insert values into created table.

3. DROP TABLE table_name;

This query is used to drop a specific table from the server.

The screenshot shows Oracle SQL*Plus with the following session history:

```

SQL> INSERT INTO Doctor_Details (Doctor_ID, D_Name, Age, Gender, Address, Position)
  2  VALUES (13067, 'Rob Cameron', 35, 'Male', '304 S Cottage Ave', 'Physician');
SQL>
SQL> DROP TABLE Patient_Insurance;
SQL>
SQL> Table dropped.
SQL>

```

4. UPDATE Doctor_Details

```
SET D_Name = 'John kelvin', Position = 'Oncologist'  
WHERE Doctor_ID = 13051;
```

```
ramyu db commands x Untitled +  
Administrator: Command Prompt - sqlplus / as sysdba  
File Edit View  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)  
VALUES ('05', 'Mark Johnson', 13053, 'Gyno Surgeon', '105');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)  
VALUES ('04', 'Prince Carl', 13054, 'Gyno Surgeon', '35F');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) VALUES ('03',  
VALUES ('05', 'Jeffrey Phillips', 13055, 'Oncologist', '101D');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('06', 'Matthew Barrows', 13056, 'Physician', '212Z');  
UPDATE Doctor_Details  
SET D_Name = 'John Kelvin', Position = 'Oncologist'  
WHERE Doctor_ID = 13051;  
VALUES ('07', 'Jennifer Green', 13057, 'Oncologist', '314A');  
VALUES ('08', 'Liam O'Brien', 13058, 'Physician', '101D');  
VALUES ('09', 'Hans Kasper', 13059, 'Physician', '101D');  
VALUES ('10', 'Miai Casper', 13060, 'Physician', '101D');  
VALUES ('11', 'Jeffrey Phillips', 13061, 'Cardiac Surgeon', '55E');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('10', 'Katherine Walsh', 13062, 'Physician', '101X');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('11', 'Malikka', 13063, 'Female', 'Cardiac Surgeon', '54');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('12', 'Lucy Moon', 13064, 'Oncologist', '50');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('13', 'Kevin Whirly', 13065, 'Physician', '77A');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('14', 'Samuel Reemer', 13066, 'Gyno Surgeon', '105');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('15', 'Daniel Weiner', 13067, 'Cardiac Surgeon', '15R');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('16', 'Cassian Elliott', 13068, 'Oncologist', '5A');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES ('17', 'Rob Cameron', 13069, 'Physician', '18J');  
  
SELECT D_Name, position,  
FROM Doctor_Details  
WHERE D_Name='John Kelvin' AND position='physician';  
  
UPDATE Doctor_Details  
SET D_Name = 'John kelvin', Position = 'Oncologist'  
WHERE Doctor_ID = 13051  
  
Ln 244, Col 25 45° Sunny 100% Windows (CR/LF) 12:24 PM 4/26/2023
```

5. IN

```
SELECT * FROM Doctor_Details  
WHERE Position IN ('Gyno Surgeon', 'Oncologist', 'Cardiac Surgeon');
```

```
ramyu db commands x Untitled +  
Administrator: Command Prompt - sqlplus / as sysdba  
File Edit View  
FROM Doctor_Details  
WHERE D_Name='John Kelvin' AND position='physician';  
  
UPDATE Doctor_Details  
SET D_Name = 'John Kelvin', Position = 'Oncologist'  
WHERE Doctor_ID = 13051;  
  
DELETE FROM Patient_Info WHERE P_Name = 'Bekah Williams';  
  
SELECT Doctor_Details.Doctor_ID, Patient_Info.P_Name, Doctor_Details  
FROM Doctor_Details  
INNER JOIN Patient_Info ON Doctor_Details.Doctor_ID=Patient_Info.DocID  
  
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name  
FROM Patient_Info  
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID  
ORDER BY Patient_Info.Doctor_ID;  
  
SELECT Doctor_Details.D_Name, Health_Department.D_Name, Health_Depart  
FROM Doctor_Details  
RIGHT JOIN Health_Department ON Doctor_Details.Position = Health_De  
ORDER BY Doctor_Details.D_Name;  
  
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name  
FROM Patient_Info  
FULL OUTER JOIN Doctor_Details ON Patient_Info.Doctor_ID=Doctor_Deta  
ORDER BY Patient_Info.Doctor_ID;  
  
SELECT COUNT(Doctor_ID), D_Name  
FROM Doctor_Details  
GROUP BY D_Name;  
  
SELECT COUNT(Doctor_ID), D_Name  
FROM Doctor_Details  
GROUP BY D_Name  
HAVING COUNT(Doctor_ID) > 6  
ORDER BY COUNT(Doctor_ID) DESC;  
  
SELECT * FROM Doctor_Details  
WHERE Position IN ('Gyno Surgeon', 'Oncologist', 'Cardiac Surgeon');  
  
Ln 278, Col 69 45° Sunny 100% Windows (CR/LF) 12:35 PM 4/26/2023
```

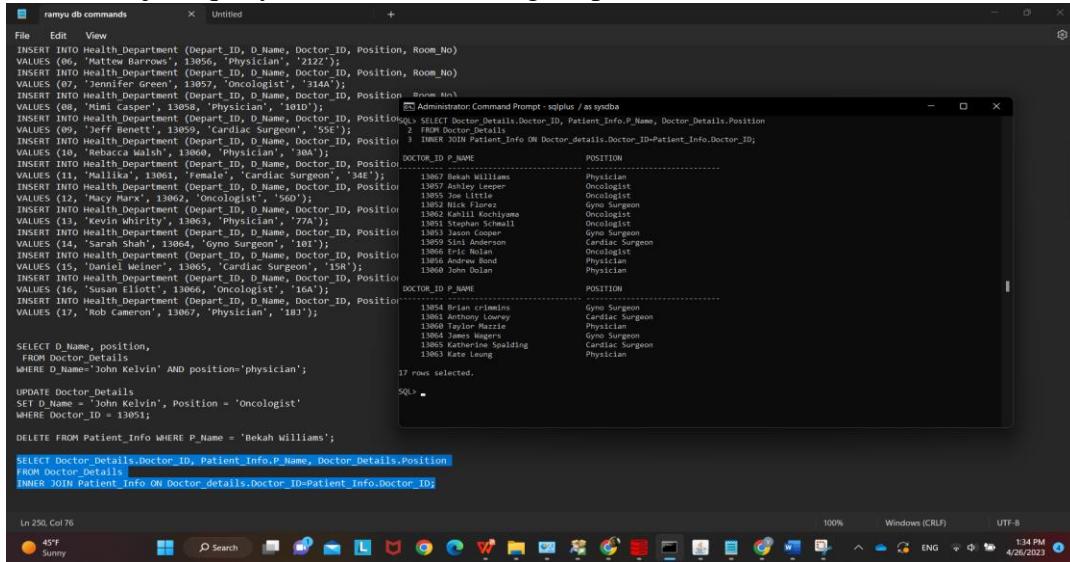
9. ADVANCE SQL QUERIES

JOINS

- **INNER JOIN:**

```
SELECT Doctor_Details.Doctor_ID, Patient_Info.P_Name, Doctor_Details.Position  
FROM Doctor_Details  
INNER JOIN Patient_Info ON Doctor_Details.Doctor_ID=Patient_Info.Doctor_ID;
```

This inner join query shows the following output.



```
File Edit View  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)  
VALUES (06, 'Matthew Barrows', 13056, 'Physician', '2122');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)  
VALUES (07, 'Jennifer Green', 13057, 'Oncologist', '31A');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) [Administrator: Command Prompt - sqlplus / as sysdba]  
VALUES (08, 'John Edwards', 13058, 'Cardiac Surgeon', '5E');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) [Administrator: Command Prompt - sqlplus / as sysdba]  
VALUES (09, 'Jeff Bennett', 13059, 'Cardiac Surgeon', '5E');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) [Administrator: Command Prompt - sqlplus / as sysdba]  
VALUES (10, 'Rebecca Walsh', 13060, 'Physician', '10A');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES (11, 'Malika Ali', 13061, 'Gyno Surgeon', '1M');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES (12, 'Macy Marx', 13062, 'Oncologist', '560');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES (13, 'Keisha Shifley', 13063, 'Physician', '72B');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES (14, 'Sarah Shah', 13064, 'Gyno Surgeon', '10I');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES (15, 'Daniel Weiner', 13065, 'Cardiac Surgeon', '1SR');  
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position)  
VALUES (16, 'Rob Cameron', 13067, 'Physician', '1B');  
  
SELECT D_Name, position,  
FROM Doctor_Details  
WHERE D_Name='John Kelvin' AND position='physician';  
  
DELETE FROM Patient_Info WHERE P_Name = 'Bekah Williams';  
  
SELECT Doctor_Details.Doctor_ID, Patient_Info.P_Name, Doctor_Details.Position  
FROM Doctor_Details  
INNER JOIN Patient_Info ON Doctor_Details.Doctor_ID=Patient_Info.Doctor_ID;  
  
17 rows selected.  
SQL> -
```

- **LEFT JOIN:**

```
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name  
FROM Patient_Info
```

```
LEFT      JOIN      Doctor_Details      ON      Patient_Info.Doctor_ID      =  
Doctor_Details.Doctor_ID  
ORDER BY Patient_Info.Doctor_ID;
```

```

ramyu db commands      Untitled      +
File Edit View
VALUES (08, 'Mimi Casper', 13058, 'Physician', '101D');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (09, 'Jeff Bennett', 13059, 'Cardiac Surgeon', '55E');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (10, 'Sarah Williams', 13060, 'Orthopedic Surgeon', '101E');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) SQL: Administrator: Command Prompt - sqlplus / as sysdba
VALUES (11, 'Mallika', 13061, 'Female', 'Cardiac Surgeon', '34E');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (12, 'Macy Marx', 13062, 'Oncologist', '56D');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (13, 'Kevin Whirity', 13063, 'Physician', '77A');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (14, 'Sarah Shah', 13064, 'Gyno Surgeon', '101F');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (15, 'Daniel Weiner', 13065, 'Cardio Surgeon', '15R');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (16, 'Susan Elliott', 13066, 'Oncologist', '16A');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (17, 'Rob Cameron', 13067, 'Physician', '183');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;

SELECT D_Name, position,
FROM Doctor_Details
WHERE D_Name='John Kelvin' AND position='physician';

UPDATE Doctor_Details
SET D_Name = 'John Kelvin', Position = 'Oncologist'
WHERE Doctor_ID = 13051;

DELETE FROM Patient_Info WHERE P_Name = 'Bekah Williams';
17 rows selected.

SELECT Doctor_Details.Doctor_ID, Patient_Info.P_Name, Doctor_Details.D_Name
FROM Doctor_Details
INNER JOIN Patient_Info ON Doctor_Details.Doctor_ID=Patient_Info.Doctor_ID;

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
ORDER BY Patient_Info.Doctor_ID;

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```

- **RIGHT JOIN:**

```

SELECT Doctor_Details.D_Name,
Health_Department.Doctor_ID
FROM Doctor_Details
RIGHT JOIN Health_Department ON Health_Department.Position = Doctor_Details.Position
ORDER BY Doctor_Details.D_Name;

```

```

ramyu db commands      Untitled      +
File Edit View
VALUES (08, 'Mimi Casper', 13058, 'Physician', '101D');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (09, 'Jeff Bennett', 13059, 'Cardiac Surgeon', '55E');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (10, 'Sarah Williams', 13060, 'Orthopedic Surgeon', '101E');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) SQL: Administrator: Command Prompt - sqlplus / as sysdba
VALUES (11, 'Mallika', 13061, 'Female', 'Cardiac Surgeon', '34E');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (12, 'Macy Marx', 13062, 'Oncologist', '56D');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (13, 'Kevin Whirity', 13063, 'Physician', '77A');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (14, 'Sarah Shah', 13064, 'Gyno Surgeon', '101F');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (15, 'Daniel Weiner', 13065, 'Cardio Surgeon', '15R');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (16, 'Susan Elliott', 13066, 'Oncologist', '16A');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
VALUES (17, 'Rob Cameron', 13067, 'Physician', '183');
SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;

SELECT D_Name, position,
FROM Doctor_Details
WHERE D_Name='John Kelvin' AND position='physician';

UPDATE Doctor_Details
SET D_Name = 'John Kelvin', Position = 'Oncologist'
WHERE Doctor_ID = 13051;

DELETE FROM Patient_Info WHERE P_Name = 'Bekah Williams';
17 rows selected.

SELECT Doctor_Details.Doctor_ID, Patient_Info.P_Name, Doctor_Details.D_Name
FROM Doctor_Details
INNER JOIN Patient_Info ON Doctor_Details.Doctor_ID=Patient_Info.Doctor_ID;

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
ORDER BY Patient_Info.Doctor_ID;

SELECT Doctor_Details.D_Name, Health_Department.D_Name, Health_Department.Doctor_ID
FROM Doctor_Details
RIGHT JOIN Health_Department ON Doctor_Details.Position = Health_Department.Position
ORDER BY Doctor_Details.D_Name;

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```

- **FULL JOIN:**

```

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
FULL OUTER JOIN Doctor_Details
ON Patient_Info.Doctor_ID=Doctor_Details.Doctor_ID

```

ORDER BY Patient_Info.Doctor_ID;

```

File Edit View
VALUES (13, 'Kevin Whirity', 13063, 'Physician', '7A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (14, 'Sarah Shah', 13064, 'Gyno Surgeon', '10F');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (15, 'Daniel Weiner', 13065, 'Cardiac Surgeon', '15H');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) SELECT Doctor_ID, Position FROM Doctor_Details
VALUES (16, 'Susan Elliott', 13066, 'Oncologist', '16A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
VALUES (17, 'Rob Cameron', 13067, 'Physician', '18J');

SELECT D_Name, position,
FROM Doctor_Details
WHERE D_Name='John Kelvin' AND position='physician';

UPDATE Doctor_Details
SET D_Name = 'John Kelvin', Position = 'Oncologist'
WHERE Doctor_ID = 13051;

DELETE FROM Patient_Info WHERE P_Name = 'Bekah Williams';

SELECT Doctor_Details.Doctor_ID, Patient_Info.P_Name, Doctor_Details
FROM Doctor_Details
INNER JOIN Patient_Info ON Doctor_Details.Doctor_ID=Patient_Info.Doctor_ID;

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
ORDER BY Patient_Info.Doctor_ID;

SELECT Doctor_Details.D_Name, Health_Department.D_Name, Health_Department.Position
FROM Doctor_Details
RIGHT JOIN Health_Department ON Doctor_Details.Position = Health_Department.Position
ORDER BY Doctor_Details.D_Name;

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
FULL OUTER JOIN Doctor_Details ON Patient_Info.Doctor_ID=Doctor_Details.Doctor_ID;
ORDER BY Patient_Info.Doctor_ID;

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```

- GROUP BY
**SELECT COUNT(Doctor_ID), D_Name
 FROM Doctor_Details
 GROUP BY D_Name;**

```

File Edit View
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (13, 'Daniel Weiner', 13065, 'Cardiac Surgeon', '15H');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position, Room_No)
VALUES (16, 'Susan Elliott', 13066, 'Oncologist', '16A');
INSERT INTO Health_Department (Depart_ID, D_Name, Doctor_ID, Position) SELECT Doctor_ID, Position FROM Doctor_Details
VALUES (17, 'Rob Cameron', 13067, 'Physician', '18J');

SELECT D_Name, position,
FROM Doctor_Details
WHERE D_Name='John Kelvin' AND position='physician';

UPDATE Doctor_Details
SET D_Name = 'John Kelvin', Position = 'Oncologist'
WHERE Doctor_ID = 13051;

DELETE FROM Patient_Info WHERE P_Name = 'Bekah Williams';

SELECT Doctor_Details.Doctor_ID, Patient_Info.P_Name, Doctor_Details
FROM Doctor_Details
INNER JOIN Patient_Info ON Doctor_Details.Doctor_ID=Patient_Info.Doctor_ID;

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID;
ORDER BY Patient_Info.Doctor_ID;

SELECT Doctor_Details.D_Name, Health_Department.D_Name, Health_Department.Position
FROM Doctor_Details
RIGHT JOIN Health_Department ON Doctor_Details.Position = Health_Department.Position
ORDER BY Doctor_Details.D_Name;

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
FROM Patient_Info
FULL OUTER JOIN Doctor_Details ON Patient_Info.Doctor_ID=Doctor_Details.Doctor_ID;
ORDER BY Patient_Info.Doctor_ID;

SELECT COUNT(Doctor_ID), D_Name
FROM Doctor_Details;
GROUP BY D_Name;

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```

- HAVING
**SELECT COUNT(Doctor_ID), D_Name
 FROM Doctor_Details
 GROUP BY D_Name
 HAVING COUNT(Doctor_ID) > 6
 ORDER BY COUNT(Doctor_ID) DESC;**

```

SELECT D_Name, position
  FROM Doctor_Details
 WHERE D_Name='John Kelvin' AND position='physician';

UPDATE Doctor_Details
SET D_Name = 'John Kelvin', Position = 'Oncologist'
 WHERE Doctor_ID = 13051;

DELETE FROM Patient_Info WHERE P_Name = 'Bekah Williams';

SELECT Doctor_Details.Doctor_ID, Patient_Info.P_Name, Doctor_Details.no rows selected
  FROM Doctor_Details
 INNER JOIN Patient_Info ON Doctor_Details.Doctor_ID=Patient_Info.Doctor_ID;

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
  FROM Patient_Info
 LEFT JOIN Doctor_Details ON Patient_Info.Doctor_ID = Doctor_Details.Doctor_ID
 ORDER BY Patient_Info.Doctor_ID;

SELECT Doctor_Details.D_Name, Health_Department.D_Name, Health_Departmen
  FROM Doctor_Details
 RIGHT JOIN Health_Department ON Doctor_Details.Position = Health_Departmen
 ORDER BY Doctor_Details.D_Name;

SELECT Patient_Info.Doctor_ID, Doctor_Details.D_Name
  FROM Patient_Info
 FULL OUTER JOIN Doctor_Details ON Patient_Info.Doctor_ID=Doctor_Details.Doctor_ID
 ORDER BY Patient_Info.Doctor_ID;

SELECT COUNT(Doctor_ID), D_Name
  FROM Doctor_Details
 GROUP BY D_Name;

SELECT COUNT(Doctor_ID), D_Name
  FROM Doctor_Details
 GROUP BY D_Name
 HAVING COUNT(Doctor_ID) > 6
 ORDER BY COUNT(Doctor_ID) DESC;

```

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Conclusion:

The Database Management System (DBMS) is a useful tool for both existing businesses and new ventures. The implementation of this real-world healthcare DBMS is feasible, practical, and accurate, although it does require much analysis and data gathering.

The healthcare facility could rapidly retrieve, update, and report information thanks to this modern technology, which also considerably enhances data sharing and communication.

References:

Class Notes

Lectures

TextBook