# Melbourne Institute of Technology Assignment 1

Q2)A)

Graphical user interface, application

Description automatically generated

SQL View:

Graphical user interface, application

Description automatically generated

B)

Graphical user interface, application, Word

Description automatically generated

SQL View:

Graphical user interface, application, Word

Description automatically generated

C)

With the database schema as pictured below:

Diagram

Description automatically generated

I think the following queries would be helpful in order to retrieve information from the database, these queries would be:

* SELECT \* FROM Bill - (This would return all the data from the Bill table and the user would get all information)
* SELECT \* FROM Doctor – (This would return all data from the Doctor table and would give the user helpful information)
* SELECT \* FROM Appointment – (This would return all data from the Appointment table and would give the user helpful information)
* SELECT \* FROM Payment – (This would return all data from the Payment table and would give the user helpful information)
* SELECT \* FROM Patient – (This would return all data from the Patient table and would give the user helpful information)

SELECT \*

FROM BILL AS B

LEFT JOIN Payment AS P ON P.Payrecieptnum = B.Bill\_number;

This query would be helpful as it joins matching values based on the PK of Bill\_number and would show the payment table and Bill table together. This might be useful for wanting to show bill status and payment method for example, handy for a receptionist or finance person.

SELECT \*

FROM Doctor AS D

LEFT JOIN Appointment AS A ON A.Doc\_Number = D.Doc\_Number

LEFT JOIN Bill AS B ON B.Bill\_number = A.Bill\_number

LEFT JOIN Payment AS P ON P.Pay\_recieptnum = B.Bill\_number

LEFT JOIN Patient AS PT ON PT.Pat\_ID = A.Pat\_ID

This query would be useful for returning all information in the database in one table. Doing so would be beneficial for someone wanting to print out a report of the whole database. Making it clearer for whoever observing the data, to be able to see all of it in one table. Using LEFT JOIN instead of INNER JOIN, means that also even if a LEFT JOIN fails it will still execute the ones down below. Which is why this query consists of LEFT JOIN rather than INNER JOINS.

Q3)

Graphical user interface, text, application, email

Description automatically generated