Narrative

A patient called Diarmuid Murphy calls Helen in the early morning requesting an appointment. Helen checks the name on the patient DBMS without success and then confirms with Mr. Murphy that if this appointment would be the first one with Dr. Mulcahy.

SELECT*from Patient where Surname = 'Murphy'

Then, Helen take note of Mr. Murphy's information to create a new patient as below.

INSERT INTO PATIENT (First_name, Surname , Gender ,Data_of_birth, Address, County, Phone_Number) Values ('Diarmuid','Murphy','M', '15-01-1988','Conolly road','Meath', '089000999')

After that, Helen confirms that fee for consultation, date and time for Mr. Murphy appointment so that she could check it on her diary.

SELECT*FROM TREATMENT

Select * from appointment where Appointment_date = '2018-05-01'

There was appointment on the date. So, Mr. Murphy selects the time and Helen enters the appointment for a consultation.

SELECT*from Patient where Surname = 'Murphy'

INSERT INTO APPOINTMENT (Appointment_date, Appointment_time, Patient_ID, Appointment_made_via, Treatment_code, Specialist_ID) Values ('2018-05-01', '09:00:00','8','Call', 'CI0120', ' 9999')

Mr. Murphy hang up after confirmation of appointment date time.

Dr Mary Mulcahy Helen gets a second call from Mr. Michael Hene asking for a urgent second consultation on the 01 of May at 09:30 . Helen then checks if Mr. Hene has an outstanding bill before making the consultation.

Select First_name, Surname, BILL_ID, Bill_Date, Total_due -
 SUM(amount_paid) as OutStanding from PatientBills WHERE Patientbills.Total_due -
Patientbills.Amount_paid >0 and patient_ID = '2' group by first_name

An outstanding bill of 40 is found. Helen advised the patient that bill_ID '2' will have to be paid before Mr. Hene see Dr. Mulcahy as bill is over a month old and make appointment.

INSERT INTO Appointment (Appointment_date, Appointment_time, Patient_ID, Appointment_made_via, Treatment_code, Specialist_ID) Values ('2018-05-01', '09:30:00','2','Drop in', 'CI0120', ' 9999')

Mr. Murphy call back again to rearrange time of the consultation and Helen update the appointment accordingly.

UPDATE APPOINTMENT SET APPOINTMENT_TIME= '10:00:00'WHERE PATIENT_ID='8'

Late that morning Helen finds a letter from Mrs. Grainne Oconnor cancelling her appointment on the 2018-02-28. Helen than cancels appointment and issue a bill to Mrs. Oconnor.

UPDATE Appointment Set Treatment_code = 'CC0001' Where Appointment_ID = '4'

INSERT INTO BILL (Bill_Date, Appointment_ID, Patient_ID, Treatment_code, Fees, Total_due) Values ('2018-05-04','4', '3', 'CC0001', '10','10')

SELECT*FROM BILL WHERE PATIENT_ID= '3'

SELECT*FROM APPOINTMENT WHERE PATIENT_ID= '3'

Helen then checks all appointment booked for the next weeks

SELECT * FROM `patientappointments` WHERE appointment_date>='2018-05-01' and appointment_date<='2018-05-18'

Later, she prepares bills by searching the patient charts to find details of any unpaid treatments.

SELECT * FROM `patientbills` order by bill_id

unpaid treatments.

Select First_name, Surname, BILL_ID, Bill_Date, Total_due - SUM(amount_paid) as OutStanding from PatientBills group by Bill_ID

Then, she would create a payment for the bills when cheque is received by post making sure the bill or the bill number is enclosed with the payment

INSERT INTO PAYMENT (Bill_ID, Patient_ID, Payment_Date, Amount_paid, Payment_type) Values ('9' , '1','2018-05-03', '10', 'CHEQUE')

And create a bill for appointment when value is NULL bill_ID on the view patientbills.

Then she looks up the Treatment Fees guidelines

SELECT * FROM `treatment`

And Check cancelations.

Select * from APPOINTMENT where Treatment_code = 'CC0001' and appointment_date >='2018-05-01'

Helen would also check the patient's file so that bill will not be billed again. Patients often arrange to make several small payments for a large bill.

```sql
Select First_name, Surname, BILL_ID, Bill_Date, Total_due -
 SUM(amount_paid) as OutStanding from PatientBills group by Bill_ID
```

```sql
SELECT * FROM `patientbills`
```

Dr Mulcahy so that she can see what treatments are to be carried out entering the appointment date and patient ID.

```sql
Select * from appointment where Appointment_date = '2018-05-01' and patient_ID="8"
```