

### SQL for the narrative:

- SQL:

```
UPDATE appointments a
```

```
JOIN patientbills b ON a.PatientID = b.PatientID
```

```
SET a.isPaymentOverdue =
```

```
CASE
```

```
    WHEN b.BillExceeded = 1 OR b.DaysAmountDue > 30 THEN 1
```

```
    ELSE 0
```

```
END
```

- SQL:

```
SELECT * FROM `appointments` WHERE isFirstVisit = 1 -- first visit
```

```
SELECT * FROM `appointments` WHERE isFirstVisit = 0 -- not a first visit
```

```
UPDATE table patients where isFirstVisit = 0
```

```
UPDATE `patient` SET `TreatmentID`=[value-4],`TreatmentName`=[value-5],`SpecialistID`=[value-6],`BillID`=[value-7],`AppointmentID`=[value-8],`AppointmentType`=[value-9],`FollowUpDetails`=[value-10],`TreatmentPaid`=[value-11],`AmountDue`=[value-12],`isPaymentOverdue`=[value-13] WHERE `patientID` = '8287'
```

```
and INSERT where isFirstVisit = 1
```

```
INSERT INTO `patient`(`PatientID`, `PatientName`, `PatientAddress`, `TreatmentID`,  
`TreatmentName`, `SpecialistID`, `BillID`, `AppointmentID`, `AppointmentType`, `FollowUpDetails`,  
`TreatmentPaid`, `AmountDue`, `isPaymentOverdue`) VALUES ('[value-1]', '[value-2]', '[value-3]',  
[value-4], [value-5], [value-6], [value-7], [value-8], [value-9], [value-10], [value-11], [value-12],  
[value-13])
```

```
DELETE FROM appointments WHERE AppointmentID = 6748;
```

```
UPDATE patient SET AmountDue=AmountDue + 10 WHERE AppointmentID = 6748;
```

```
SELECT * FROM `appointments` WHERE AppointmentDate BETWEEN  
STR_TO_DATE(CONCAT(YEAR(NOW()),WEEK(NOW(),7), ' Saturday'), '%X%V %W') AND  
STR_TO_DATE(CONCAT(YEAR(NOW()),WEEK(NOW(),7), ' Saturday'), '%X%V %W') + 8
```

```
UPDATE reminders a
```

```
JOIN appointments b ON a.AppointmentID = b.AppointmentID
```

```
SET a.AppointmentNextWeek =
```

```
CASE
```

```
    WHEN a.AppointmentID IN ('6746', '6747') THEN 1
```

```
    ELSE 0
```

```
END
```

```
SELECT * FROM reminders where AppointmentNextWeek = 1
```

```
UPDATE `patient` a
```

```
JOIN treatments b ON a.TreatmentID = b.TreatmentID
```

```
SET AmountDue= a.AmountDue + b.TreatmentFees
```

```
SELECT * FROM patient WHERE AmountDue > 0 -- These patients have their bills paid
```

```
UPDATE `patient` SET `FollowUpDetails`='Consult a Specialist for .... ' WHERE PatientID = '8286'
```

```
UPDATE `patient` SET `SpecialistID`='6294' WHERE PatientID = '8286'
```