Task 1: database design and development (part B)

Your teacher or lecturer will provide you with a completed database file. This file contains a relational database with the following tables.

Doctors surgery database				
Doctor	**Patient**	**Drug**	**Appointment**	**PrescribedDrug**
doctorID	patientID	drugID	appDate	drugID*
forename	forename	drugName	appTime	patientID*
surname	surname	manufacturer	doctorID*	datePrescribed
street	dateOfBirth	dosage	patientID*	
town	address	cost		
postcode	contactNo			
telNo				
dateQualified				

1c (i) The surgery wants to create a list of drugIDs showing how many times each drugID is prescribed. The list should be sorted from the most prescribed drug to the least.

Implement the SQL statement that will produce this output.

Print evidence of both the implemented SQL statement and the output it produced.

(3 marks)

1c (ii) The surgery wants to identify a list of patients who have been prescribed the drug with the highest dosage.

The output should include the patientID and the datePrescribed fields, as shown below.

patientID	**datePrescribed**
75	14/05/2018
88	14/05/2018
92	10/05/2018
…	…

Implement two SQL statements that will produce this output.

Print evidence of both the implemented SQL statements and the outputs they produced.

(4 marks)

1d The five patients listed below live in the postcode area EH12:

- Susan Lamb
- Gifty Adisa
- Lewis Robinson
- Morgane Dubios
- Toby Malone

The following SQL statement is designed to find all the patients who live within this postcode area.

```
SELECT forename, surname, patientID
FROM Patient
WHERE address LIKE '%EH12%';
```

Test the above SQL statement.

Comment on any difference between the actual output it produces and the expected output.

(1 mark)

Describe how the Patient table could be changed to ensure the expected output matches the actual output.

(1 mark)

Candidate name_____ Candidate number_____