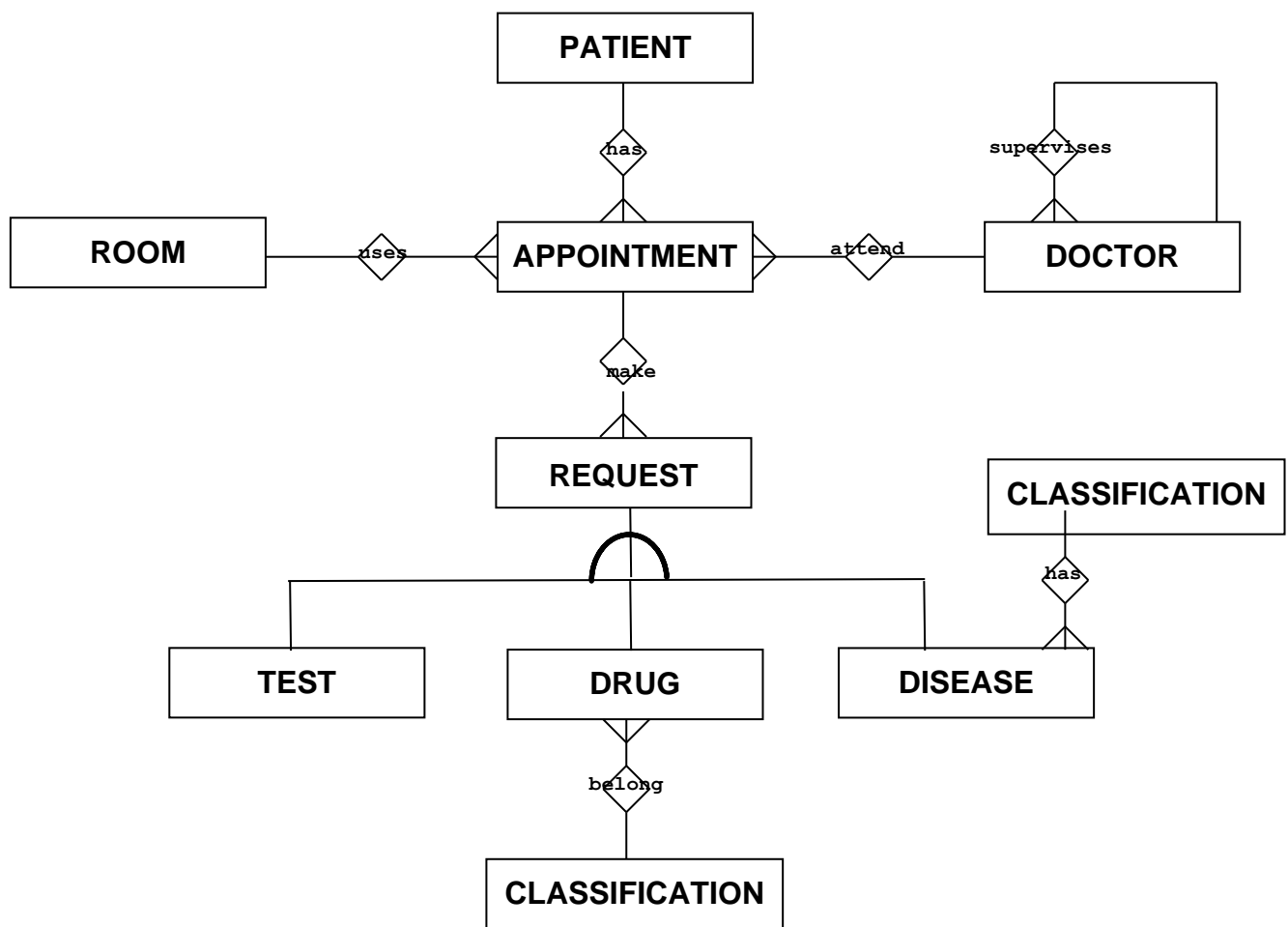


## Relational Model

DOCTOR	PATIENT	APPOINTMENT	DISEASE	REQUEST
<u>DoctorID</u>	<u>PatientID</u>	<u>AppointmentID</u>	<u>DiseaseID</u>	<u>RequestID</u>
Surname	Surname	dateOfAppointment	diseaseName	<u>AppointmentID</u>
Given	Given	timeOfAppointment	<u>ClassificationID</u>	requestType
Dob	Dob	Done		<u>DiseaseID</u>
Sex	Sex	<u>PatientID</u>	<b>TEST</b>	<u>TestID</u>
Joined	Phone	<u>DoctorID</u>	<u>TestID</u>	<u>DrugID</u>
Resigned	Occupation	<u>RoomNo</u>	Name	
Address	BloodType			
Suburb	Address	<b>ROOM</b>	<b>DRUG</b>	<b>CLASSIFICATION</b>
Postcode	Suburb	<u>RoomNo</u>	<u>DrugID</u>	<u>ClassificationID</u>
Phone	State	Name	itemCode	Name
<u>SupervisorID</u>	Postcode	Level	Name	
	Email	Facility*	longName	<b>MANUFACTURER</b>
			Restriction	<u>manufacturerCode</u>
			Repeats	Name
			<u>manufacturerCode</u>	Address
				Phone

## Entity-Relationship Diagram



BR: request type is T-test; D-diagnosis; P-prescription; these dictates which entity is connected  
TEST/DISEASE/DRUG

## SPECIFICATIONS

Read the following questions carefully. You will be asked to specify SQL queries to answer them.

## QUESTIONS

You will be working with a set of tables for a Doctor's Clinic. You can access these tables by using the CLINIC database on the mysql server (mo.its.rmit.edu.au). You are to prepare 10 SQL query statements that will provide answers to the following 10 requests for information. Please note ALL these queries only required ONE table in the FROM clause.

1. Write a query to display all the diseases which contain the word "syndrome" in the disease name. Show the disease ID and name.
2. Display the full name and age of male patients that are more than 50 years old that live in the suburb "WOODSTOCK". Show this list of patients from oldest patient to youngest patient.
3. List all the appointment details for appointments that were scheduled in February 2022, that used room number 2, in the morning and were completed/done (i.e. Y). Show this in descending date order, i.e. latest to oldest, for appointments on the same date sort using the appointment time from morning to night.
4. List all the currently ACTIVE doctors in the clinic who are female, show their full name and phone number and how many years they have been working at the clinic.
5. List how many drugs for each manufacturer. Only need to show the manufactureCode and the count.
6. Show the number of appointments that have been made by each patient. You do not need to show the patient details, the patientID and count is enough.
7. Management is interested in knowing for each gender (i.e. sex) the count of **doctors** and the average number of years worked by the doctors. Only do this for doctors who have resigned.
8. The blood bank is interest to know, from the clinics list of patients, for each blood type show the count of patients where that count is less than 100. You need to show the blood type and the count only.
9. Show how many patients were seen by each doctor during 2021. Limit the list to those that had less than 5000 appointments for 2021. You do not need to show the doctor's details, the doctorID is enough.
10. Display the number of appointments for each month of 2021. Show the list in month order. You must show at least the month name and the number of appointments.