1. Show patient\_id, first\_name, last\_name from patients whos diagnosis is 'Dementia'.  
   Primary diagnosis is stored in the admissions table.
2. Display every patient's first\_name.  
   Order the list by the length of each name and then by alphabetically.
3. Show the total amount of male patients and the total amount of female patients in the patients table.  
   Display the two results in the same row.
4. Show first and last name, allergies from patients which have allergies to either 'Penicillin' or 'Morphine'. Show results ordered ascending by allergies then by first\_name then by last\_name.
5. Show patient\_id, diagnosis from admissions. Find patients admitted multiple times for the same diagnosis.
6. Show the city and the total number of patients in the city.  
   Order from most to least patients and then by city name ascending.
7. Show first name, last name and role of every person that is either patient or doctor.  
   The roles are either "Patient" or "Doctor"
8. Show all allergies ordered by popularity. Remove NULL values from query.
9. Show all patient's first\_name, last\_name, and birth\_date who were born in the 1970s decade. Sort the list starting from the earliest birth\_date.
10. We want to display each patient's full name in a single column. Their last\_name in all upper letters must appear first, then first\_name in all lower case letters. Separate the last\_name and first\_name with a comma. Order the list by the first\_name in decending order  
    EX: SMITH,jane
11. Show the province\_id(s), sum of height; where the total sum of its patient's height is greater than or equal to 7,000.
12. Show the difference between the largest weight and smallest weight for patients with the last name 'Maroni'
13. Show all of the days of the month (1-31) and how many admission\_dates occurred on that day. Sort by the day with most admissions to least admissions.
14. Show all columns for patient\_id 542's most recent admission\_date.
15. Show patient\_id, attending\_doctor\_id, and diagnosis for admissions that match one of the two criteria:  
    1. patient\_id is an odd number and attending\_doctor\_id is either 1, 5, or 19.  
    2. attending\_doctor\_id contains a 2 and the length of patient\_id is 3 characters.
16. Show first\_name, last\_name, and the total number of admissions attended for each doctor.  
    Every admission has been attended by a doctor.
17. For each doctor, display their id, full name, and the first and last admission date they attended.
18. Display the total amount of patients for each province. Order by descending.
19. For every admission, display the patient's full name, their admission diagnosis, and their doctor's full name who diagnosed their problem.
20. display the first name, last name and number of duplicate patients based on their first name and last name.  
    Ex: A patient with an identical name can be considered a duplicate.
21. Display patient's full name, height in the units feet rounded to 1 decimal,  
    weight in the unit pounds rounded to 0 decimals, birth\_date, gender non abbreviated.  
    Convert CM to feet by dividing by 30.48.  
    Convert KG to pounds by multiplying by 2.205.
22. Show patient\_id, first\_name, last\_name from patients whose does not have any records in the admissions table. (Their patient\_id does not exist in any admissions.patient\_id rows.)
23. Display a single row with max\_visits, min\_visits, average\_visits where the maximum, minimum and average number of admissions per day is calculated. Average is rounded to 2 decimal places.
24. Show all of the patients grouped into weight groups.  
    Show the total amount of patients in each weight group.  
    Order the list by the weight group decending.  
    For example, if they weight 100 to 109 they are placed in the 100 weight group, 110-119 = 110 weight group, etc.
25. Show patient\_id, weight, height, isObese from the patients table.  
    Display isObese as a boolean 0 or 1. Obese is defined as weight(kg)/(height(m)2) >= 30.weight is in units kg. height is in units cm.
26. Show patient\_id, first\_name, last\_name, and attending doctor's specialty.  
    Show only the patients who has a diagnosis as 'Epilepsy' and the doctor's first name is 'Lisa'  
    Check patients, admissions, and doctors tables for required information.
27. All patients who have gone through admissions, can see their medical documents on our site. Those patients are given a temporary password after their first admission. Show the patient\_id and temp\_password.  
    The password must be the following, in order:  
    1. patient\_id  
    2. the numerical length of patient's last\_name  
    3. year of patient's birth\_date
28. Each admission costs $50 for patients without insurance, and $10 for patients with insurance. All patients with an even patient\_id have insurance.  
    Give each patient a 'Yes' if they have insurance, and a 'No' if they don't have insurance. Add up the admission\_total cost for each has\_insurance group.