1)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. **SELECT** COUNT(*) AS patients in group, FLOOR(weight / 10) * 10 AS weight group FROM patients GROUP BY weight group ORDER BY weight group DESC; 2)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. SELECT patient_id, weight, height, (CASE WHEN weight/(POWER(height/100.0,2)) >= 30 THEN ELSE END) AS isObese FROM patients; 3) 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' select p.patient id , p.first name, p.last name ,d.specialty FROM patients p JOIN admissions a ON p.patient_id = a.patient_id join doctors d ON a.attending_doctor_id = d.doctor_id

4) 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.

where a.diagnosis = 'Epilepsy' AND d.first name = 'Lisa'

```
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
select a.patient id,
concat(a.patient id,len(p.last name),year(p.birth date)) AS temp password
FROm admissions a join patients p
ON a.patient id = p.patient id
group by a.patient_id
SELECT
 DISTINCT P.patient id,
CONCAT(
 P.patient id,
 LEN(last name),
 YEAR(birth date)
) AS temp password
FROM patients P
JOIN admissions A ON A.patient id = P.patient id
```

5) 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.

```
select
CASE
WHEN patient_id % 2 = 0 THEN "Yes" ELSE "no"
end AS has_insurance,
SUM(CASE
WHEN patient_id % 2 = 0 THEN 10 ELSE 50
END) AS cost_after_insurance
FROM admissions
GROUP BY has_insurance;
select has_insurance,
case
```

```
WHEN has_insurance = 'YES' THEN count(has_insurance)*10
ELSE count(has insuarnce)*50
END As cost_after_insurance
select
CASE when patient id % 2 == 0 THen 'YES' ELSE 'No' END AS has insurance
FROM admissions)
group by has_insurance
select has insurance, sum (admission cost) as admission total
from
 select patient_id,
 case when patient id % 2 = 0 then 'Yes' else 'No' end as has insurance,
 case when patient id % 2 = 0 then 10 else 50 end as admission cost
 from admissions
)
group by has_insurance
6) Show the provinces that has more patients identified as 'M' than 'F'. Must
only show full province_name
select pn.province name FROM patients p
JOIN province names pn
ON p.province id = pn.province id
group by pn.province name
HAVING COUNT(CASE WHEN p.gender = 'M' THEN 1 END) > count(case WHEN p.gender = 'F'
THEN 1 END);
SELECT province_name
FROM (
 SELECT
  province_name,
  SUM(gender = 'M') AS n male,
  SUM(gender = 'F') AS n_female
  FROM patients pa
  JOIN province names pr ON pa.province id = pr.province id
 GROUP BY province_name
WHERE n_male > n_female
```

```
SELECT pr.province_name

FROM patients AS pa

JOIN province_names AS pr ON pa.province_id = pr.province_id

GROUP BY pr.province_name

HAVING

SUM(gender = 'M') > SUM(gender = 'F');
```

7)Show the percent of patients that have 'M' as their gender. Round the answer to the nearest hundreth number and in percent form.

8) For each day display the total amount of admissions on that day. Display the amount changed from the previous date.

```
select admission_date , count(admission_date) AS admission_day, COUNT(admission_date) - LAG(COUNT(admission_date))

OVER (order by admission_date) AS Change

FROM admissions group by admission date
```

9)Sort the province names in ascending order in such a way that the province 'Ontario' is always on top.

```
select province_name FROM province_names order by
(case WHEN province_name ='Ontario' THEN 0 ELSE 1 END),
province_name;

select province_name
from province_names
order by
(not province_name = 'Ontario'),
province_name
```

- 10)We are looking for a specific patient. Pull all columns for the patient who matches the following criteria:
- First name contains an 'r' after the first two letters.
- Identifies their gender as 'F'
- Born in February, May, or December

- Their weight would be between 60kg and 80kg
- Their patient_id is an odd number
- They are from the city 'Kingston

select * FROm patients where first_name like '__r%' AND gender = 'F' AND month(birth_date) IN (2 ,5 , 12) AND (weight between 60 AND 80) AND patient_id %2 !=0 and city = 'Kingston'