MySQL Queries

1. Retrieve the recipes of the dish by a name through input
   x=input()
   select name,time,dtype,cal from foodt where name=x;
   for i in foodt:
         if i[1]==x;
            id=i[0];
   select i.ing_name from containst c, ingredients i
   where c.fid=id and c.ing_id=i.ing_id;
   select sequence,description from steps where fid=id;

2. Retrieve the names of the dishes that have less than 300 calories
   select name, cal from foodt where cal<300;

3. List all the dishes that take lesser than 30 minutes of preparation
   select name from foodt where time <30;

4. List all the dishes that use at most 7 ingredients
   select distinct f.name from foodt f, containst c,ingredients i where
   f.fid=c.fid and c.ing_id=i.ing_id and f.fid in (select f.fid from foodt
   f,containst c where f.fid=c.fid group by c.fid having count(*)<8);

5. Count the number of dishes that can be prepared by a certain ingredient
   and display them in alphabetical order
   select count(distinct f.name) as number_of_dishes from foodt f, containst
   c, ingredients i where f.fid=c.fid and c.ing_id=i.ing_id and ing_name like
   '%Salt%';
   select distinct f.name from foodt f, containst c, ingredients i where
   f.fid=c.fid and c.ing_id=i.ing_id and ing_name like '%Salt%' order by
   f.name asc;
   #I took salt as an example in place of the input okay.

6. List all the dishes suitable for lactose intolerant users
   select distinct name from foodt where name not in(select f.name from
   foodt f, containst c, ingredients_type it where c.fid=f.fid and
   c.ing_id=it.ing_id and it.itype like '%Dairy%');

7. List all the dishes that are healthy (low calorie and low sodium level)
   select name from foodt where cal<300 and sodium<600;

8. List all the dishes appropriate as post work-out meals (high protein)
   select name from foodt where protein>20;

9. List all the dishes for a vegan diet
   select name from foodt where dtype="Vegan";

10. List all the dishes for a vegetarian diet
    select name from foodt where dtype="Vegan" or dtype="Vegetarian";

11. List all the dishes for a non-vegetarian diet
    select name from foodt;