

-- Jake Gudenkauf

-- a DONE

```
select count(iid)
from kitchen.ingredient;
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-- b DONE

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select kitchen.food.fid, kitchen.food.fname
from kitchen.food
inner join (select kitchen.recipe.fid, group_concat(kitchen.ingredient.iname) as
ingredient_name
           from kitchen.recipe
           inner join kitchen.ingredient on kitchen.recipe.iid =
kitchen.ingredient.iid
           group by kitchen.recipe.fid)
as temp on kitchen.food.fid = temp.fid
where temp.ingredient_name like '%Beef%' and temp.ingredient_name like '%Green
Onion%';
```

-- c DONE

```
select kitchen.ingredient.iid, kitchen.ingredient.iname
from kitchen.ingredient
where kitchen.ingredient.iid not in
(select kitchen.recipe.iid from kitchen.recipe)
order by kitchen.ingredient.iid asc;
```

-- d DONE

```
select kitchen.food.fid, fname, count(kitchen.ingredient.iid) as 'Num Ingredients',
sum(kitchen.ingredient.caloriepergram) as 'Total Ingredients in Grams'
from kitchen.food, kitchen.ingredient, kitchen.recipe
where kitchen.food.fid = kitchen.recipe.fid && kitchen.ingredient.iid =
kitchen.recipe.iid && kitchen.recipe.iid =
group by kitchen.food.fid, kitchen.food.fname
order by count(kitchen.ingredient.iid) desc;
```

-- e DONE

```
select      kitchen.food.fid as Food_ID, kitchen.food.fname as Food_Name,
            kitchen.ingredient.iid as Ingredient_ID, kitchen.ingredient.iname as
Ingredient_Name,
            cast(kitchen.ingredient.caloriepergram * kitchen.recipe.amount as
decimal(5,2)) as Calories
from kitchen.food, kitchen.recipe, kitchen.ingredient
where kitchen.food.fid = kitchen.recipe.fid && kitchen.recipe.iid =
kitchen.ingredient.iid && kitchen.food.fid in (
    select kitchen.food.fid
    from kitchen.food, kitchen.recipe
    where kitchen.food.fid = kitchen.recipe.fid && kitchen.recipe.iid = 23)
order by kitchen.food.fid asc;
```

-- f DONE

```
select kitchen.food.fid as Food_ID, kitchen.food.fname as Food_Name
from kitchen.food
inner join kitchen.recipe on kitchen.food.fid = kitchen.recipe.fid
inner join kitchen.ingredient on kitchen.recipe.iid = ingredient.iid
where kitchen.ingredient.category = 'Vegetable'
group by kitchen.food.fname
having count(kitchen.food.fname) = 2 and sum(kitchen.recipe.amount) > 5
order by kitchen.food.fname desc;
```