Views:

1. View workers and which center they work at

```
create view workers_center as
    select *
    from donationcenters inner join workers using (center_id) inner join
employees using (worker_id);
```

2. View the locations of churches

```
create view church_location as
    select *
    from donationcenters inner join ziplocations using (zip_code)
    where center_type like '%Church%';
```

3. View foods and their allergens

```
create view allergen_foods as
    select *
    from foods inner join foodallergens using (donation id);
```

4. View physical donations

```
create view phys_don as
    select *
    from donations inner join physicaldonations using (donation_id);
```

5. View monetary donations

```
create view mon_don as
    select *
    from donations inner join monetarydonations using (donation_id);
```

Queries:

2. # Find the cities with the largest number of donations
select city, count(zip code) as num

```
donations using (center id)
group by city
having num = (
  select max(y.num) as max
  from (
   select count(zip code) as num
    from ziplocations inner join donationcenters using (zip code) inner join
donations using (center id)
      group by city) y);
  I≣ city ÷
               III n∪m ≑
 1 Long Beach
3. # Find all of the pairs of employees who work at the same donation cente
select a.first name as "Employee 1 FN",
      a.last name as "Employee 1 LN",
      b.first name as "Employee 2 FN",
      b.last name as "Employee 2 LN",
      a.center id as "Employee 1 Center",
      b.center id as "Employee 2 Center"
       workers center a inner join
                                                                     csv v 🛨 Ŧ 🥠 🔾 🌣
                                                                    III `Employee 2 Center` ‡
4. # List the donation centers with the amount of donations above the average
select name, count(donation) as num
from donationcenters inner join donations using (center id)
group by center id
naving num > (
   select avg(y.num) as avg
  from (
      select count(donation) as num
     group by center id) y);
   1 Radicalists
```

```
a.name as "Center Name 1",
       a.center type as "Center Type 1",
       b.center type as "Center Type 2",
       a.state as "Center State 1",
       b.state as "Center State 2"
                                                                           CSV ∨ ± ∓ 🛧 🧿 🌣
  II≣ `Center Name 1`
6. # Find all pairs of food with the same allerger
select a.item as "Item 1",
                  "Item 2",
       a.allergen as "Item 1 Allergen",
       b.allergen as "Item 2 Allergen"
       allergen foods a inner join
       allergen foods b using (allergen)
where a.donation id > b.donation id;
                 ‡ ■ `Item 2`
                                  ⇒ III `Item 1 Allergen`

‡ III `Item 2 Allergen`
 1 red velvet cake
                    swiss cheese
 2 sugar cookies
                    swiss cheese
 3 sugar cookies
                    red velvet cake
                    red velvet cake
select distinct first name, last name, value
where value = (
  select max(value)
  Ⅲ first_name

‡ III last_name

                                  I≣ value ÷
                                      500.5
8. # Find the food with the highest number of allergens
select item as "Food", count(allergen) as "Num of Allergens"
from allergen foods
group by Food
having `Num of Allergens` = (
   select max(y.num) as max
   from (
```

```
select count(allergen) as num
                          from allergen foods
                         group by item) y);
                                                                                         II `Num of Allergens` ≎
            ■ Food
     2 sugar cookies
9. # List the name of everyone who donated food items and what food they donated
  select first name, last name, item
 from donators inner join donations using (donator id) inner join foods using
(donation id);
  Image: Im
                                                                                                      swiss cheese
                                                                                                      red velvet cake
10. # List the donated items that have not yet been distributed
 select donation, donation id
 from phys don
where recipient id is null
          select donation, donation id
          from mon don
          where donation id not in (
            select donation id
                from moneydistributions);
             .∄ donation
   1 1 ham
   3 1 teddy bear
   4 4 pack of rum
   5 3 shirts
```

Inserts Used:

```
insert into centertypes(center_type) values
('Homeless Shelter'),
('Church');
```

INSERT INTO ZipLocations(zip code, city, state, country) VALUES

```
(90815, 'Long Beach', 'CA', 'United States'),
(123, 'City name', 'State', 'A country'),
(92348, 'Real Town', 'CA', 'United States');
insert into ZipLocations(zip code, city, country) VALUES
(43215, 'Best Ville', 'Japan'),
(54312, 'Worst Ville', 'Japan');
('Homelessness Help', '123 street', 'Homeless Shelter', 123),
('Needing?', '56 avenue', 'Homeless Shelter', 123),
('Radicalists', '666 blvd', 'Church', 90815), ('Chrispians', '2 blvd', 'Church', 92348),
('Baptizers', '5 blvd', 'Church', 43215),
('Missionists', '09 blvd', 'Church', 54312);
insert into workers (first name, last name, center id) values
('Fred', 'Ward', 1), ('All', 'Ice', 1),
('Nat', 'Han', 2),
('Hez', 'Zeus', 1),
('Vel', 'Muh', 2);
insert into employees (worker id, hourly wage) values
(2, 15),
(3, 15),
(4, 15),
(5, 15),
(6, 15);
insert into donators(first name, last name, phone, street, zip code) values
('Joe', 'Mawmuh', 0621231234, '1 street', 123),
('Hun', 'Tee', 1871234321, '5 blvd', 90815);
insert into donations (donation, date received, center id, donator id) values
('1 ham', '2021-1-6', 1, 1),
('3 packages of cheese', '2021-4-7', 3, 2),
('1 teddy bear', '2011-10-3', 1, 1),
('4 pack of rum', '2021-5-11', 3, 2),
('6 cookies', '2021-8-4', 3, 1),
('money', '2021-9-4', 3, 1),
('money', '2021-9-7', 3, 1);
select *
from donations;
```

```
insert into physicaldonations (donation id) values
(1), (2), (3), (4), (5), (6), (7);
insert into monetarydonations (value, donation id) values
(100.75, 8), (500.50, 9);
INSERT INTO Destinations (recipient, street, zip code)
VALUES('Sue\'s Orphanage', '400 State Way', 90815), ('Joey', '400 State Way',
90815);
insert into moneydistributions (value distributed, donation id, recipient id)
values
(400, 9, 1), (100.50, 9, 2);
insert into brandeddonations (brand, donation_id) values
('Bucher', 1), ('swiss', 2), ('teddiesRus', 3), ('Modelo', 4), ('Nike', 5),
('Homemeade', 6), ('Homemade', 7);
insert into foods (item, best by, donation id) values
('ham', '2022-1-1', 1), ('swiss cheese', '2022-1-1', 2), ('rum', '2022-1-1',
('red velvet cake', '2022-1-1', 6), ('sugar cookies', '2022-1-1', 7);
insert into DonationAllegens (allergen, donation id) values
('Milk', 2), ('Nuts', 4), ('Milk', 6), ('Egg', 6), ('Egg', 7), ('Milk', 7);
```