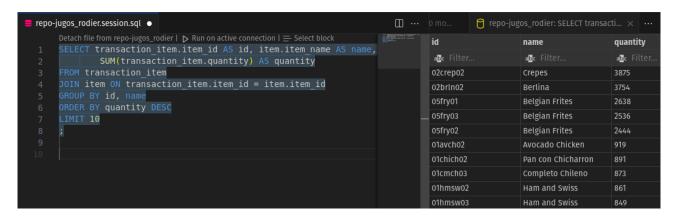
Jugos Rodier Queries

How many transactions are in the database?

The database contains ~7000 transactions

What are our top 10 most popular items?



What are our most popular item_categories?

```
🛢 repo-jugos_rodier.session.sql 🏻 🗨
                                                                □ …
                                                                                                      repo-jugos
      Detach file from repo-jugos_rodier | > Run on active connection | = Select block
                                                                        category
                                                                                             quantity
      -- Most popular item categories?
                                                                         abc Filter.
                                                                                              abc Filter.
      SELECT item.item category AS category,
               SUM(transaction item.quantity) AS quantity
                                                                        Sandwiches
                                                                                             7645
      FROM transaction item
                                                                        Desserts
                                                                                             7629
      JOIN item ON transaction item.item id = item.item id
                                                                        Side
      GROUP BY category
                                                                        Smoothie
                                                                                             4212
      ORDER BY quantity DESC
      LIMIT 10
                                                                        Fresh Juice
                                                                                             3394
```

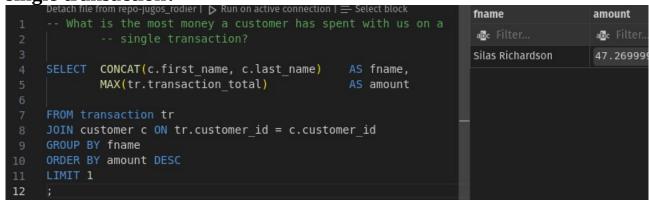
What is our Total Revenue?

Total Revenue = \$140,945

What is the average cost per transaction?

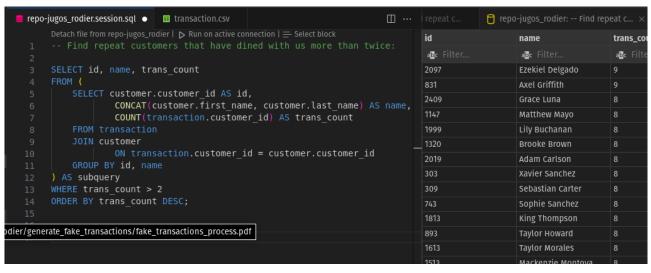
The average cost of a transaction is \$20.13

What is the most amount of money a customer has spent with on a single transaction?



Largest transaction \$47.27

Find the names of customers that have dined at our restaurant more than twice



What proportion of our customers have dined with us more than twice?

```
prcnt_repeat
  What proportion of our customers has dined with us more than 2 times?
                                                                      alk Filter..
WITH customer names AS (
                                                                      0.563331902103
      SELECT c.customer id
                                                    AS id,
             CONCAT(c.first name, c.last name)
                                                    AS cname,
             COUNT(tr.customer_id)
                                                    AS times dined
       FROM transaction tr
       JOIN customer AS c ON tr.customer id = c.customer id
       GROUP BY id, cname
customer_frequency AS (
       SELECT cname,
                 WHEN times dined > 2 THEN 1
                 ELSE 0
                 END AS loyalty
       FROM customer names
SELECT AVG(loyalty)
                                                    AS prcnt repeat
FROM customer frequency
                                                                       CONSOLE
```

What is the average number of items purchased per transaction?

What is the busiest time of day (Morning, Afternoon, evening)?

```
repo-jugos_rodier.session.sql ● 🖽 Extension: SQLTools
                                                                                                    📋 repo-jugos_rodie
     Detach file from repo-jugos_rodier | > Run on active connection | = Select block
                                                                                      class
                                                                                                           count
                                                                                      alk Filter...
                                                                                                           a⊵c Filter.
                                                                                      Afternoon
                                                                                      Evening
                                                                                                           1960
                                                                                      Morning
                                                                                                           1866
     WITH timeday AS (
                 WHEN time of day BETWEEN '12:00:00' AND '15:00:00'
                  WHEN time of day BETWEEN '15:00:00' AND '20:00:00'
                  THEN 'Afternoon'
              END AS class
              FROM transaction t)
     SELECT class, COUNT(class)
     FROM timeday
                                                                                       CONSOLE RE-RUN QUERY
```

Afternoons are our most popular time by far. This is most likely due to the "lunch rush".

How much does each item cost to make?

name	recipe_id	item_profit ↓
a <mark>b</mark> c Filter	aBc Filter	abc Filter
Completo Chileno	01cmch03	9.799916666666666
Pan con Chicharron	01chich02	8.456524475524475
Avocado Chicken	01avch03	5.977499999999999
Completo Chileno	01cmch02	4.6118333333333333
Ham and Swiss	01hmsw03	3.844
Ham and Gouda	01hmgd03	3.724999999999999
Avocado Chicken	01avch02	3.44125
Ham and Swiss	01hmsw02	2.669499999999999
Ham and Gouda	01hmgd02	2.625
Crepes	02crep02	1.992859477124183
Belgian Frites	05fry02	1.948047619047619
Belgian Frites	05fry03	1.896095238095238
Mango Lassi	03mgla03	1.877555555555555
Relgian Frites	05frv01	1 7792190476190477

Find profit by category:

```
profit by category:
price serv AS (
           recipe.recipe_id,
recipe.recipe servings
         FROM inventory i

JOIN recipe ON i.inventory_id = recipe.inventory_id),
costs AS (
         SELECT item.item name
            recipe_id,
SUM(price_per_serv * recipe_servings) AS item_cost,
                  item.price as price
         JOIN item ON item.item id = price_serv.recipe_id
GROUP BY item_name, price_serv.recipe_id, item.price),
                 recipe_id,
SUM(price - item_cost)
                                                                AS item profit
         GROUP BY recipe_id, name, item cost
                                                               AS id.
                  p.recipe_id
                                                               AS rec,
                                                               AS profit1
         JOIN transaction_item ti ON p.recipe_id = ti.item_id)
SELECT item.item_category
         SUM(profit1)
GROUP BY item.item_category
```

category	profit ↓
a <mark>b</mark> c Filter	abc Filter
Sandwiches	38603.42364102571
Side	14263.105752380385
Desserts	12489.910473857874
Smoothie	4390.870437127046
Fresh Juice	-5104.291533606543
Smoothie	4390.870437127046

Our most profitable group is sandwiches, and our least profitable group is our Fresh Juice.

The sandwich profit is explained by the fact that sandwiches are the most expensive menu item.

The loss of juice profit is likely explained by the low juice price and the higher cost of the ingredients. Many of the ingredients are imported from South America, which increases the cost. I would recommend that we either switch to concentrate OR offer fresh squeezed juice only as a promotion with a side and higher profit sandwiches.

Find total profit (before labor):

```
overall_profit
                                                                 alc Filter...
                                                                64643.018770783216
      AS price_per_serv,
             recipe.recipe_servings
      FROM inventory i

JOIN recipe ON i.inventory_id = recipe.inventory_id
             recipe_id,
             SUM(price_per_serv * recipe_servings) AS item_cost, item.price AS price
       JOIN item ON item.item_id = price_serv.recipe_id
            recipe_id,
SUM(price - item_cost)
      SELECT ti.trans_id,
SUM(ti.quantity * p.item_profit) AS trans_profit
      FROM profits p
JOIN transaction_item ti ON p.recipe_id = ti.item_id
SELECT SUM(t_prof.trans_profit)
                                                    AS overall_profit
FROM t_prof
SELECT * FROM overall_profit;
```