Analysis of Restaurant Visits

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##Connecting database

```
library(RMySQL)
```

Loading required package: DBI

Executive Summary

Data

```
query <- "select r.name as restaurant_name, count(*) as numOfVisits, sum(`num.guests`) as totalGuests,
from visits v
inner join restaurants r on r.rid = v.rid
inner join restaurant_facts f on r.rid = f.rid
group by r.rid, YEAR(v.vdate)
order by year;"

# Execute the SQL query and store the result in a data frame
result <- dbGetQuery(mydb, query)

## Warning in .local(conn, statement, ...): Decimal MySQL column 2 imported as
## numeric
print("Displaying a table containing the number of visits and number of guests per restaurant")</pre>
```

[1] "Displaying a table containing the number of visits and number of guests per restaurant"

print(result)

```
##
            restaurant_name numOfVisits totalGuests year
## 1
                     Ninita
                                   198
                                               552 2022
## 2
                                    198
                                               459 2022
                     Olga's
## 3 Charlestown Brewery Pub
                                    207
                                              525 2022
## 4
                     Ninita
                                   1302
                                               3210 2023
## 5
                     Olga's
                                   1137
                                             2724 2023
## 6 Charlestown Brewery Pub
                                  1236
                                             3108 2023
## 7
                                               210 2024
                                   84
                     Ninita
## 8
                     Olga's
                                     66
                                               159 2024
## 9 Charlestown Brewery Pub
                                     72
                                               165 2024
```

Discussion

```
query <- "SELECT r.name AS restaurant_name
FROM visits v
INNER JOIN restaurants r ON r.rid = v.rid
GROUP BY r.rid
HAVING COUNT(*) = (
    SELECT MAX(numOfVisits)
FROM (
    SELECT COUNT(*) AS numOfVisits
    FROM visits
    GROUP BY rid
) AS subquery
);"
result <- dbGetQuery(mydb, query)
print(result)</pre>
```

```
## restaurant_name
## 1 Ninita
```

had the most overall visits, while

```
SELECT r.name
FROM restaurant_facts f
INNER JOIN restaurants r ON r.rid = f.rid
GROUP BY r.name
HAVING SUM(f.numGuests) = (
    SELECT MAX(totalGuests)
    FROM (
        SELECT SUM(numGuests) AS totalGuests
        FROM restaurant_facts
        GROUP BY rid
    ) AS subquery
)
```

Table 1: 1 records

name

 ${\bf Ninita}$

had the most guests.

```
SELECT YEAR(v.vdate) AS year
FROM visits v
GROUP BY YEAR(v.vdate)
HAVING COUNT(*) = (
    SELECT MAX(numOfVisits)
    FROM (
        SELECT COUNT(*) AS numOfVisits
        FROM visits
        GROUP BY YEAR(vdate)
    ) AS subquery
)
```

Table 2: 1 records

year

2023

was the year where we saw the most visits to our restaurants.