SQL QUERIES USED
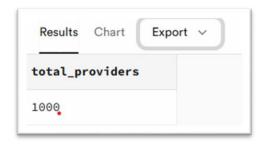
1.Total Number of Providers:

```
# total number of providers
SELECT COUNT(*) AS total_providers
FROM providers;
```

Result:

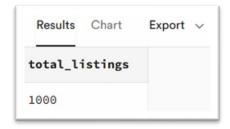| total_providers |
| --- |
| 1000 |

2. Total Number of Receivers:

```
#total number of receivers
SELECT COUNT(*) AS total_receivers
FROM receivers;
```

Result:

total_receivers
1000

3. Total Number of Food Listing:

```sql
#total food listings available
SELECT COUNT(*) AS total_listings
FROM food_listings;
```

Result:

total_listings
1000

4. Food Listings by Provider Type:

```sql
#Food listings by provider type
SELECT p."Type", COUNT(f."Food_ID") AS total_listings
FROM food_listings f
JOIN providers p ON f."Provider_ID" = p."Provider_ID"
GROUP BY p."Type"
ORDER BY total_listings DESC;
```

Result:

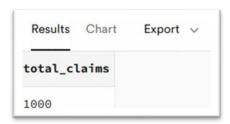| Type	total_listings
Supermarket	267
Restaurant	258
Grocery Store	243
Catering Service	232

5. Listing about to Expire within 3 Days:

```sql
#Listing about to expire within 3 days
SELECT f."Food_ID", f."Food_Name", f."Expiry_Date", p."Name" AS provider_name
FROM food_listings f
JOIN providers p ON f."Provider_ID" = p."Provider_ID"
WHERE f."Expiry_Date" <= CURRENT_DATE + INTERVAL '3 days';
```

Result: (First 5)

Food_ID	Food_Name	Expiry_Date	provider_name
1	Bread	2025-03-17	Figueroa-Soto
2	Soup	2025-03-24	Aguilar Group
3	Fruits	2025-03-28	Lopez, Roach and Roach
4	Fruits	2025-03-16	Cannon-Garcia
5	Soup	2025-03-19	Greene, Wood and Hernandez

6. Total Food Claimed:

```sql
#Total food claimed
SELECT COUNT(*) AS total_claims
FROM claims;
```

Result:

total_claims
1000

7. Claims per Receiver:

```sql
#claims per receiver
SELECT r."Name" AS receiver_name, COUNT(c."Claim_ID") AS total_claims
FROM claims c
JOIN receivers r ON c."Receiver_ID" = r."Receiver_ID"
GROUP BY r."Name"
ORDER BY total_claims DESC;
```

Result: (First Five)

receiver_name	total_claims
Scott Hunter	5
Anthony Garcia	5
William Frederick	5
Matthew Webb	5
Kristina Simpson	4

8. Most Active Providers by Number of Listings:

```sql
#Most active provider by number of listings
SELECT p."Name", COUNT(f."Food_ID") AS listings_count
FROM food_listings f
JOIN providers p ON f."Provider_ID" = p."Provider_ID"
GROUP BY p."Name"
ORDER BY listings_count DESC
LIMIT 1;
```

Result:

Name	listings_count
Miller Inc	8

9. Most Active Receivers Number of Claims:

```
#Most active receiver by number of claims
SELECT r."Name", COUNT(c."Claim_ID") as claims_count
FROM claims c
JOIN receivers r ON c."Receiver_ID" = r."Receiver_ID"
GROUP BY r."Name"
ORDER BY claims_count DESC
LIMIT 1;
```

Result:

Name	claims_count
Matthew Webb	5

10. Unclaimed Food Listing:

```
#Unclaimed food listings
SELECT f."Food_ID", f."Food_Name", p."Name" AS provider_name
FROM food_listings f
LEFT JOIN claims c ON f."Food_ID" = c."Food_ID"
JOIN providers p ON f."Provider_ID" = p."Provider_ID"
WHERE c."Claim_ID" IS NULL;
```

Result: (First 5)

Food_ID	Food_Name	provider_name
887	Soup	Smith, Lynch and Anderson
264	Bread	Nelson-White
802	Soup	Mitchell, Campbell and Jones
497	Dairy	Barry Group
452	Vegetables	Burke, Yates and Hicks

11. Claims by Provider Type:

```
#Claims by provider type
SELECT p."Type", COUNT(c."Claim_ID") AS total_claims
FROM claims c
JOIN food_listings f ON c."Food_ID" = f."Food_ID"
JOIN providers p ON f."Provider_ID" = p."Provider_ID"
GROUP BY p."Type";
```

Result:

Type	total_claims
Restaurant	257
Grocery Store	247
Supermarket	252
Catering Service	244

Results Chart Export ∨

12. City with Most Providers:

```
#City with most providers
SELECT "City", COUNT(*) AS total_providers
FROM providers
GROUP BY "City"
ORDER BY total_providers DESC
LIMIT 1;
```

Result:

Results Chart Export ∨

City	total_providers
New Carol	3

13. City with Most Receivers:

```sql
#City with most receivers
SELECT "City", COUNT(*) AS total_receivers
FROM receivers
GROUP BY "City"
ORDER BY total_receivers DESC
LIMIT 1;
```

Result:

City	total_receivers
New Christopher	3

Results · Chart · Export ∨

14. Total Quantity of Food Available:

```sql
#Total quantity of food available
SELECT SUM("Quantity") AS total_quantity_available
FROM food_listings;
```

Result:

Results · Chart · Export ∨

total_quantity_available
25794

15. Most Commonly Available Food Type:

```sql
#Most commonly available food type
SELECT "Food_Type",
       COUNT(*) AS total_items
FROM food_listings
GROUP BY "Food_Type"
ORDER BY total_items DESC;
```

Result:

Food_Type	total_items
Vegetarian	336
Vegan	334
Non-Vegetarian	330

16. Percentage of Claims Completed vs Pending vs Cancelled:

```sql
#Percentage of claims completed vs pending vs canceled
SELECT "Status",
       ROUND(COUNT(*) * 100.0 / (SELECT COUNT(*) FROM claims), 2) AS percentage
FROM claims
GROUP BY "Status";
```

Result:

Status	percentage
Completed	33.90
Cancelled	33.60
Pending	32.50

17. Average Quantity Claimed per Receiver:

```
#Average quantity claimed per receiver
SELECT r."Name" AS receiver_name,
        ROUND(AVG(f."Quantity"), 2) AS avg_quantity_claimed
FROM claims c
JOIN food_listings f ON c."Food_ID" = f."Food_ID"
JOIN receivers r ON c."Receiver_ID" = r."Receiver_ID"
GROUP BY r."Name"
ORDER BY avg_quantity_claimed DESC;
```

Result: (First 5)

Results   Chart   Export ⌄

receiver_name	avg_quantity_claimed
Daniel Williams	50.00
Christopher Wright	50.00
Lisa Pitts	50.00
Peggy Knight	50.00
Nancy Silva	50.00

18. Most Claimed Meal Type:

```
#Most claimed meal type
SELECT f."Meal_Type",
        COUNT(c."Claim_ID") AS total_claims
FROM claims c
JOIN food_listings f ON c."Food_ID" = f."Food_ID"
GROUP BY f."Meal_Type"
ORDER BY total_claims DESC;
```

Result:

Results   Chart   Export ⌄

Meal_Type	total_claim
Breakfast	278
Lunch	250
Snacks	240
Dinner	232

19. Total Quantity Donated by each Provider:

```sql
#Total quantity donated by each provider
SELECT p."Name" AS provider_name,
       SUM(f."Quantity") AS total_quantity_donated
FROM food_listings f
JOIN providers p ON f."Provider_ID" = p."Provider_ID"
GROUP BY p."Name"
ORDER BY total_quantity_donated DESC;
```

Result: (First 5)

Results   Chart   Export ⌄

provider_name	total_quantity_donated
Miller Inc	217
Barry Group	179
Evans, Wright and Mitchell	158
Smith Group	150
Campbell LLC	145