Food Providers & Receivers

1. How many food providers and receivers are there in each city?

SELECT City,

   COUNT(DISTINCT Provider_ID) AS Total_Providers,

   COUNT(DISTINCT Receiver_ID) AS Total_Receivers

FROM (

   SELECT City, Provider_ID, NULL AS Receiver_ID FROM providers

   UNION ALL

   SELECT City, NULL AS Provider_ID, Receiver_ID FROM receivers

) AS combined

GROUP BY City

ORDER BY City;

2. Which type of food provider contributes the most food?

SELECT Type, COUNT(*) AS Contributions

FROM providers

GROUP BY Type

ORDER BY Contributions DESC;

3. What is the contact information of food providers in a specific city?

SELECT Name, Contact

FROM providers

WHERE City = 'YourCityName';

4. Which receivers have claimed the most food?

SELECT r.Name, COUNT(c.Claim_ID) AS Total_Claims

FROM receivers r

JOIN claims c ON r.Receiver_ID = c.Receiver_ID

GROUP BY r.Name

ORDER BY Total_Claims DESC;

Food Listings & Availability

5. What is the total quantity of food available from all providers?

SELECT SUM(Quantity) AS Total_Quantity

FROM food_listings;

6. Which city has the highest number of food listings?

SELECT Location AS City, COUNT(*) AS Listings

FROM food_listings

GROUP BY Location

ORDER BY Listings DESC

LIMIT 1;

7. What are the most commonly available food types?

SELECT Food_Type, COUNT(*) AS Count

FROM food_listings

GROUP BY Food_Type

ORDER BY Count DESC;

Claims & Distribution

8. How many food claims have been made for each food item?

SELECT f.Food_Name, COUNT(c.Claim_ID) AS Total_Claims

FROM claims c

JOIN food_listings f ON c.Food_ID = f.Food_ID

GROUP BY f.Food_Name

ORDER BY Total_Claims DESC;

9. Which provider has had the highest number of successful food claims?

SELECT p.Name, COUNT(*) AS Successful_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

WHERE c.Status = 'Completed'

GROUP BY p.Name

ORDER BY Successful_Claims DESC

LIMIT 1;

10. What percentage of food claims are completed vs. pending vs. canceled?

SELECT Status,

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    ROUND(COUNT(*) * 100.0 / (SELECT COUNT(*) FROM claims), 2) AS Percentage
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FROM claims

GROUP BY Status;

Analysis & Insights

11. What is the average quantity of food claimed per receiver?

SELECT r.Name, ROUND(AVG(f.Quantity), 2) AS Avg_Quantity

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 DESC;

12. Which meal type is claimed the most?

SELECT f.Meal_Type, COUNT(*) AS Claims

FROM food_listings f

JOIN claims c ON f.Food_ID = c.Food_ID

GROUP BY f.Meal_Type

ORDER BY Claims DESC

LIMIT 1;

13. What is the total quantity of food donated by each provider?

SELECT p.Name, SUM(f.Quantity) AS Total_Donated

FROM providers p

JOIN food_listings f ON p.Provider_ID = f.Provider_ID

GROUP BY p.Name

ORDER BY Total_Donated DESC;