

```
--Category of the variable location which has the most observations

SELECT location,

COUNT(claim_id) AS number_of_claims -- No of locations

FROM food_claims_2212

GROUP BY location -- Grouping the results by location

ORDER BY number_of_claims DESC; -- Ordering the results in descending order
```

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	location character varying (20)			numl bigin	per_of_ t	claims	a		
1	RECIFE						88	5	
2	SAO LUIS				517				
3	FORTALEZA				311				
4	N.A	TAL						28	

```
--Distribution of time to close for all claims

SELECT location,

MIN(time_to_close) AS min_time_to_close,

MAX(time_to_close) AS max_time_to_close,

PERCENTILE_DISC(0.5) WITHIN GROUP

(ORDER BY time_to_close) AS median_time_to_close,-- Calculates the median value

ROUND(AVG(time_to_close),2) AS mean_time_to_close,--Calculates the average & rounded to two decimal

COUNT(time_to_close) AS no_of_claims -- Counts the number of claims

FROM food_claims_2212

GROUP BY location;
```

#### Data Output Messages Notifications

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	location character varying (20)	min_time_to_close integer	max_time_to_close integer	median_time_to_close integer	mean_time_to_close numeric	no_of_claims bigint
1	FORTALEZA	76	453	180	185.31	311
2	NATAL	93	361	179	185.93	287
3	RECIFE	82	427	178	184.61	885
4	SAO LUIS	84	518	179	187.17	517

```
/*Calculate various percentile statistics for the time_to_close column grouped by
the location column in the table.*/
SELECT location,
       PERCENTILE_DISC(0.25) WITHIN GROUP(ORDER BY time_to_close)-
            1.5*(PERCENTILE_DISC(0.75) WITHIN GROUP(ORDER BY time_to_close)-
       PERCENTILE_DISC(0.25) WITHIN GROUP(ORDER BY time_to_close)) AS bottom_outlier,
       PERCENTILE_DISC(0.25) WITHIN GROUP(ORDER BY time_to_close) AS "25th percentile",
       PERCENTILE_DISC(0.5) WITHIN GROUP(ORDER BY time_to_close) AS median,
       PERCENTILE_DISC(0.75) WITHIN GROUP(ORDER BY time_to_close) AS "75th percentile",
       (PERCENTILE_DISC(0.75) WITHIN GROUP(ORDER BY time_to_close)-
            PERCENTILE_DISC(0.25) WITHIN GROUP(ORDER BY time_to_close)) AS IQR,
        PERCENTILE_DISC(0.75) WITHIN GROUP(ORDER BY time_to_close)+
            1.5*(PERCENTILE_DISC(0.75) WITHIN GROUP(ORDER BY time_to_close)-
       PERCENTILE_DISC(0.25) WITHIN GROUP(ORDER BY time_to_close)) AS upper_outlier
 FROM food_claims_2212
GROUP BY location;
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		<mark>ition</mark> racter va	rying (	20)	botto	om_ou	tlier 🔓	25th percentile integer	median integer	â	75th percentile integer	iqr integer	upper_outlier numeric
1	FORTALEZA			83.5			157	1	180	206	49	279.5	
2	NATAL			83,5			157	j	179	206	49	279.5	
3	REC	RECIFE			88.0			157	1	178	203	46	272.0
4	SAC	LUIS					95.0	161	1	179	205	44	271.0

```
--Total claimed amount, total paid amount, and the balanced amount for each location

SELECT COALESCE(location, 'Total Amount') AS location,

SUM(claim_amount) AS total_claim_amount,

SUM(amount_paid) AS total_paid_amount,

SUM(claim_amount) - SUM(amount_paid) AS balanced_amount

FROM food_claims_2212

GROUP BY ROLLUP(location)

ORDER BY location; -- Total claimed amount, total paid amount and balanced amount by location wise.

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	location character varying	total_claim_amount anumeric	total_paid_amount a	balanced_amount anumeric	
1	FORTALEZA	8294581.01	6589450.95	1705130.06	
2	NATAL	7914729.79	6219389.00	1695340.79	
3	RECIFE	24116530.58	19096671.44	5019859.14	
4	SAO LUIS	13988089.09	11126733.07	2861356.02	
5	Total Amount	54313930.47	43032244.46	11281686.01	

```
--Analysis of individuals claims using bins.
WITH bins AS (SELECT GENERATE_SERIES(0,18, 3)+1 AS lower, -- Lower bin series
                     GENERATE_SERIES(3,21,3) AS upper) -- Upper bin series
    SELECT lower, upper,
           COUNT(individuals_on_claim) AS no_of_individuals_claim
      FROM food_claims_2212 AS f
INNER JOIN bins AS b
           ON f.individuals_on_claim >= lower
                                                 -- individuals on claim should be between upper and lower
              AND f.individuals_on_claim <= upper
  GROUP BY lower, upper
  ORDER BY lower;
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               no_of_individuals_claim
     lower
               upper
     integer
               integer
                        bigint
1
                      3
                                       363
2
            4
                      6
                                       402
            7
                      9
                                       448
3
                     12
4
           10
                                       428
           13
                     15
                                       359
5
```

```
-- Calculates the number of cases and the percentage distribution of linked cases

SELECT linked_cases,

COUNT(claim_id) AS no_of_cases,

CONCAT(

ROUND(

(COUNT(claim_id)/

(SELECT COUNT(claim_id)::NUMERIC

FROM food_claims_2212))*100,

'%') AS percetage_distribution

FROM food_claims_2212

GROUP BY linked_cases;

Data Output Messages Notifications
```

percetage\_distribution

no\_of\_cases

481

26

1493

24.05 %

1.30 %

74.65%

bigint

linked\_cases

TRUE

FALSE

NA

1

2

3

character varying (15)

```
/*Count of cases for each location, considering only the cases where the linked_cases column
has a value of 'FALSE'*/
   SELECT location,
          COUNT(claim_id) AS no_of_cases,
          CONCAT (
               ROUND (
                     (COUNT(claim_id)/
                                      (SELECT COUNT(claim_id)::NUMERIC
                                         FROM food_claims_2212)) *100,
              ' %') AS percetage_distribution
     FROM food_claims_2212
     WHERE linked_cases = 'FALSE'
 GROUP BY location
 ORDER BY no_of_cases DESC;
Data Output Messages Notifications
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                        no_of_cases
                                     percetage_distribution
     location
     character varying (20)
                        bigint
                                     text
      RECIFE
                                     32.80 %
2
      SAO LUIS
                                 381
                                     19.05 %
3
      FORTALEZA
                                 237 11.85 %
      NATAL
                                 219 10.95 %
```

```
-- Count the number of claims for each cause where linked_cases is 'TRUE'.

SELECT cause,

COUNT(claim_id) AS no_of_claims

FROM food_claims_2212

WHERE linked_cases = 'TRUE' -- Filter for TRUE cases

GROUP BY cause

ORDER BY no_of_claims DESC;
```

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