

- How many organisations in total?

Query-

```
SELECT COUNT(id) FROM organisations;
```

Result - 100

Query Run time - 5ms

- How many organisations do not have offer\_requests?

Query-

```
SELECT COUNT(id)
FROM organisations
WHERE id NOT IN (
    SELECT DISTINCT (organisation_id)
    FROM offer_requests);
```

Result - 0

Query Run time - 16ms

- How many organisations have offer\_requests?

Query-

```
SELECT COUNT(id)
FROM organisations
WHERE id IN (
    SELECT DISTINCT (organisation_id)
    FROM offer_requests);
```

Result - 100

Query Run time - 22ms

- How many organisations have no offers?

Query-

```
SELECT COUNT(id)
FROM organisations
WHERE id NOT IN (
    SELECT DISTINCT (organisation_id)
    FROM offers);
```

Result - 0

Query Run time - 22ms

- Which organisation has maximum offers and how many offers?

Query-

```
SELECT og.org_name ,COUNT(of2.id) AS max_cout
FROM offers AS of2,organisations AS og
WHERE of2.organisation_id = og.id
GROUP BY og.org_name
HAVING COUNT(of2.id) =(
    SELECT MAX(cnt) AS max_val
    FROM (
        SELECT COUNT(*) AS cnt,organisation_id
        FROM offers
        GROUP BY organisation_id ) AS tbl );
```

Result - moaning\_turquoise 10915

Query Run time - 194ms

- Which organisation has minimum offers and how many offers?

Query-

```
SELECT og.org_name ,COUNT(of2.id) AS min_cout
FROM offers AS of2,organisations AS og
WHERE of2.organisation_id = og.id
GROUP BY og.org_name
HAVING COUNT(of2.id) =(
    SELECT MIN(cnt) AS min_val
    FROM (
        SELECT COUNT(*) AS cnt,organisation_id
        FROM offers
        GROUP BY organisation_id ) AS tbl );
```

Result - **native\_lime 109**

Query Run time - **203ms**

- Which organisation has maximum orders and how many orders?

Query-

```
SELECT og.org_name ,COUNT(or2.id) AS max_cout
FROM orders AS or2,organisations AS og
WHERE or2.organisation_id = og.id
GROUP BY og.org_name
HAVING COUNT(or2.id) =(
    SELECT MAX(cnt) AS max_val
    FROM (
        SELECT COUNT(*) AS cnt,organisation_id
        FROM orders
        GROUP BY organisation_id ) AS tbl );
```

Result - **dual\_sapphire 32**

Query Run time - **16ms**

- Which organisation has maximum orders and how many orders?

Query-

```
SELECT og.org_name ,COUNT(or2.id) AS min_cout
FROM orders AS or2,organisations AS og
WHERE or2.organisation_id = og.id
GROUP BY og.org_name
HAVING COUNT(or2.id) =(
    SELECT MIN(cnt) AS min_val
    FROM (
        SELECT COUNT(*) AS cnt,organisation_id
        FROM orders
        GROUP BY organisation_id ) AS tbl );
```

Result - **hollow\_amber 1**

**forthcoming\_salmon 1**

**adverse\_red 1**

**deliberate\_indigo 1**

**hidden\_blush 1**

**experimental\_blush 1**

**accessible\_aqua 1**

frequent\_blue 1  
 accurate\_crimson 1  
 valid\_orange 1  
 liable\_harlequin 1  
 visiting\_gold 1  
 lucky\_white 1  
 pale\_plum 1  
 extended\_tomato 1  
 awkward\_aquamarine 1  
 rural\_sapphire 1  
 frightened\_salmon 1  
 cautious\_ivory 1  
 official\_apricot 1  
 hard\_salmon 1  
 rural\_scarlet 1  
 beneficial\_crimson 1  
 devoted\_brown 1  
 primitive\_cyan 1  
 sole\_brown 1  
 willing\_maroon 1  
 angry\_violet 1  
 unnecessary\_copper 1  
 nutritious\_silver 1  
 potential\_coffee 1

Query Run time - 71ms

- Which organisation has the maximum total amount of offers and what is the amount?

Query-

```

SELECT og.org_name ,SUM(of2.total_amount) AS tot_amt
FROM offers AS of2, organisations AS og
WHERE of2.organisation_id = og.id
GROUP BY og.org_name
HAVING COUNT(of2.total_amount) = ( SELECT MAX(cnt) AS max_val
                                   FROM (SELECT COUNT(total_amount) AS cnt, organisation_id
                                         FROM offers
                                         GROUP BY organisation_id) tbl );
  
```

Result - moaning\_turquoise 324947704

Query Run time - 200ms

- Which organisation has the maximum total amount of orders and what is the amount?

Query-

```

SELECT og.org_name ,SUM(of2.total_amount) AS tot_amt
FROM offers AS of2, organisations AS og
WHERE of2.organisation_id = og.id
GROUP BY og.org_name
HAVING COUNT(of2.total_amount) = ( SELECT MAX(cnt) AS max_val
                                   FROM (SELECT COUNT(total_amount) AS cnt, organisation_id
                                         FROM orders
                                         GROUP BY organisation_id) tbl );
  
```

Result - dual\_sapphire 1123713

Query Run time - 16ms