Organisation Queries

1. How many organisations in total?

Query –
select

    count(distinct id)

from

    organisations;

Result – 100

Query Run Time – 7ms

2. How many organisations do not have offer_requests?

Query –
 select

    count(id)

from

    organisations og

where

    id **not in** (

    select

        organisation_id

    from

        offer_requests);

Result – 0

Query Run Time – 19ms

3. How many organisations have offer_requests?

Query –
select

    count(id)

from

    organisations

where

    id **in** (

    select

        organisation_id

    from

        offer_requests);

Result – 100

Query Run Time – 20ms

4. How many organisations have no offers?

Query –

select

    count(id)

from

    organisations

where

    id **not in** (

    select

        organisation_id

    from

        offers);

Result – 0

Query Run Time – 29ms

5. Which organisation has maximum offers and how many offers?

Query –

SELECT
        org_name,
        nos_offers
FROM
        (
        SELECT
            *,
            DENSE_RANK() OVER (
        ORDER BY
            nos_offers desc) **AS** dense_rnk
        FROM
            (
            SELECT
                org.org_name,
                count(off.id) **AS** nos_offers
            FROM
                offers off
            INNER JOIN organisations org **ON**
                org.id = off.organisation_id
            GROUP BY
                org.org_name
            ORDER BY
                count(off.id) desc) inner_tab) outer_tab
WHERE
        dense_rnk = 1;

Result – moaning_turquoise, 10,915 offers

Query Run Time – 147ms

6. Which organisation has minimum offers and how many offers?

Query –

SELECT
        org_name,
        nos_offers
FROM
        (
        SELECT
            *,
            DENSE_RANK() OVER (
        ORDER BY
            nos_offers) **AS** dense_rnk
        FROM
            (
            SELECT
                org.org_name,
                count(off.id) **AS** nos_offers
            FROM
                offers off
            INNER JOIN organisations org **ON**
                org.id = off.organisation_id
            GROUP BY
                org.org_name

```
            ORDER BY
                    count(off.id)) inner_tab) outer_tab
WHERE
        dense_rnk = 1;
```

Result – native lime, 420 offers

Query Run Time – 123ms

7. Which organisation has maximum orders and how many orders?

Query –

```
SELECT
        org_name,
        nos_orders
FROM
        (
        SELECT
                *,
                DENSE_RANK() OVER (
        ORDER BY
                nos_orders desc) AS dense_rnk
        FROM
                (
                SELECT
                        org.org_name,
                        count(ord.id) AS nos_orders
                FROM
                        orders ord
                INNER JOIN organisations org ON
                        org.id = ord.organisation_id
                GROUP BY
                        org.org_name
                ORDER BY
                        count(ord.id) desc) inner_tab) outer_tab
WHERE
        dense_rnk = 1;
```

Result – dual sapphire, 32 orders

Query Run Time – 120 ms

8. Which organisation has minimum orders and how many orders?

Query –

```
SELECT
        org_name,
        nos_orders
FROM
        (
        SELECT
                *,
                DENSE_RANK() OVER (
        ORDER BY
                nos_orders) AS dense_rnk
        FROM
                (
                SELECT
```

```
                                    org.org_name,
                                    count(ord.id) AS nos_orders
                        FROM
                                    orders ord
                        INNER JOIN organisations org ON
                                    org.id = ord.organisation_id
                        GROUP BY
                                    org.org_name
                        ORDER BY
                                    count(ord.id)) inner_tab) outer_tab
WHERE
            dense_rnk = 1;
```

Result – 27 organisations having 1 order
Query Run Time – 112ms

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

Query –

```
SELECT
            org_name,
            amount
FROM
            (
            SELECT
                        *,
                        DENSE_RANK() OVER (
            ORDER BY
                        amount desc) AS dense_rnk
            FROM
                        (
                        SELECT
                                    org.org_name,
                                    sum(off.total_amount) AS amount
                        FROM
                                    offers off
                        INNER JOIN organisations org ON
                                    org.id = off.organisation_id
                        GROUP BY
                                    org.org_name
                        ORDER BY
                                    sum(off.total_amount) desc) inner_tab) outer_tab
WHERE
            dense_rnk = 1;
```

Result – moaning_turquoise, 324,947,704

Query Run Time – 10ms

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

Query –
```
SELECT
            org_name,
            amount
FROM
            (
            SELECT
                        *,
                        DENSE_RANK() OVER (
            ORDER BY
                        amount desc) AS dense_rnk
            FROM
                        (
```

```sql
            SELECT
                    org.org_name,
                    sum(ord.total_amount) AS amount
            FROM
                    orders ord
            INNER JOIN organisations org ON
                    org.id = ord.organisation_id
            GROUP BY
                    org.org_name
            ORDER BY
                    sum(ord.total_amount) desc) inner_tab) outer_tab
WHERE
        dense_rnk = 1;
```

Result –dual_sapphire , 1,123,713

Query Run Time – 6ms