REVOLVE SQL ASSIGNMENT

Question 1:

How many organisations in total?

Query –

```
select count(id)
from public.organisations o ;
```

Result – 100

Runtime – 39ms

Question 2:

How many organisations **do not** have offer_requests?

Query –

```
select count(a.id) from (
select id from public.organisations o
except
select organisation_id from public.offer_requests or2) a;
```

Result –0

Runtime – 54ms

Question 3:

How many organisations have offer_requests?

Query –

```
select count(distinct(a.id)) from(
select id from public.organisations o
INTERSECT
select organisation_id from public.offer_requests or2) a;
```

Result –100

Runtime – 54ms

Question 4:

How many organisations have no offers?

Query –

```
select count(distinct(a.id)) from(
select id from public.organisations o
EXCEPT
select organisation_id from public.offer_requests or2) a;
```

Result –0

Runtime – 55ms

Question 5:

Which organisation has maximum offers and how many offers?

Query –

```
select o.org_name, a.offers_count from public.organisations o inner join (
select organisation_id,count(1) as offers_count from public.offers  group by
organisation_id) a
on o.id = a.organisation_id order by a.offers_count desc;
```

Result – moaning_turquoise, 10915

Runtime – 438ms

Question 6:

Which organisation has minimum offers and how many offers?

Query –

```
select o.org_name, a.offers_count from public.organisations o inner join (
select organisation_id,count(1) as offers_count from public.offers  group by
organisation_id) a
on o.id = a.organisation_id order by a.offers_count asc;
```

Result – native_lime, 420

Runtime – 163ms

Question 7:

Which organisation has maximum orders and how many orders?

Query –

```
select o.org_name, a.orders_count from public.organisations o inner join (
select organisation_id,count(1) as orders_count from public.orders o group by
organisation_id) a
on o.id = a.organisation_id order by a.orders_count desc;
```

Result – dual_sapphire, 32

Runtime – 163ms

Question 8:

Which organisation has minimum orders and how many orders?

Query –

```
select o.org_name, a.orders_count from public.organisations o inner join (
select organisation_id,count(1) as orders_count from public.orders o group by
organisation_id) a
on o.id = a.organisation_id order by a.orders_count asc;
```

Result –

cautious_ivory,11

valid_orange,1

hollow_amber,1

extended_tomato,1

awkward_aquamarine,1

unnecessary_copper,1

potential_coffee,1

nutritious_silver,1

beneficial_crimson,1

deliberate_indigo,1

forthcoming_salmon,1

rural_scarlet,1

accessible_aqua,1

pale_plum,1

willing_maroon,1

official_apricot,1

hard_salmon,1

accurate_crimson,1

frequent_blue ,1

adverse_red,1

rural_sapphire,1

lucky_white,1

sole_brown,1

devoted_brown,1

visiting_gold,1

experimental_blush,1

angry_violet,1

frightened_salmon,1

hidden_blush,1

liable_harlequin,1

primitive_cyan,1

Runtime – 48ms

Question 9:

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

Query –

```
select o.org_name, a.offers_count,a.total_amount from public.organisations o inner join (
select organisation_id,count(1) as offers_count,SUM(total_amount) as total_amount from
public.offers  group by organisation_id) a
on o.id = a.organisation_id order by a.offers_count desc;
```

Result – moaning_turquoise,10915,324947704

Runtime – 254ms

Question 10:

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

Query –

```
select o.org_name, a.orders_count, a.total_amount from public.organisations o inner join (
select organisation_id,count(1) as orders_count,SUM(total_amount) as total_amount from
public.orders o group by organisation_id) a
on o.id = a.organisation_id order by a.orders_count desc;
```

Result – dual_sapphire,32,1123713

Runtime – 42ms