SQL TEST SOLUTION BY ASHISH MALLAH

Host - db-test.covcwjn9i2te.ap-south-1.rds.amazonaws.com

User – sql_test_user Password - dywas@06 Database - test Schema - public

Tables

1. organisations

2. offer_requests

3. offers

4. orders

Organisation Queries

1. How many organisations in total?

2. How many organisations do not have offer_requests?

3. How many organisations have offer_requests?

4. How many organisations have no offers?

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

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

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

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

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

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

Solutions:-

1. How many organisations in total?

Query -

SELECT count(1)

FROM organisations

Result - 100

Query Run time - 101ms

2. How many organisations do not have offer_requests?

Query -

select count(1) from offer_requests where cabin_class isnull;

Result - 0

Query Run time - 82ms

3. How many organisations have offer_requests?

Query -

```
select count(1)  from offer_requests where id notnull;
```

Result – 60,000

Query Run time - 195ms

4. How many organisations have no offers?

Query -

```
select count(offer_request_id)  from offers where offer_request_id is null;
```

Result - 0

Query Run time - 121ms

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

Query –

```
select count(offer_request_id),organisation_id  from offers
group by organisation_id
ORDER BY COUNT(offer_request_id) desc
limit 1;
```

Result – count = 10915 , organisation_id = org_00000000000WR10DFx1nc6

Query Run time - 205ms

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

Query -

```
select count(offer_request_id),organisation_id  from offers
group by organisation_id
ORDER BY COUNT(offer_request_id) asc
limit 1;
```

Result - count = 420 , organisation_id = org_00000000000WR10DFzIaeZ

Query Run time - 127ms

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

Query -

```
select count(id),organisation_id  from orders
group by organisation_id
ORDER BY COUNT(id) desc
limit 1;
```

Result - count = 32 , organisation_id = org_00000000000WR10DFx1nc8

Query Run time - 90ms

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

Query -

```
select count(id),organisation_id  from orders
group by organisation_id
ORDER BY COUNT(id) asc
limit 1;
```

Result - count = 1 , organisation_id = org_00000000000WR10DFzIaee

Query Run time - 8ms

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

Query -

```
select sum(total_amount),organisation_id  from offers
group by organisation_id
ORDER BY sum(total_amount) desc
limit 1;
```

Result - sum = 324947704 , organisation_id = org_00000000000WR10DFx1nc6

Query Run time - 78ms

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

Query -

```sql
select sum(total_amount),organisation_id  from orders
group by organisation_id
ORDER BY sum(total_amount) desc
limit 1;
```

Result - sum = 1123713 , organisation_id = org_00000000000WR10DFx1nc6

Query Run time - 120ms