Revolve Solutions SQL Assessment

- **How many organisations in total?**

  Query –

  SELECT count(1)
  FROM organisations

  Result - 100
  Query Run time - 4ms

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

  Query -

  SELECT count(id)
        FROM organisations o
  WHERE NOT EXISTS   --BETTER PERFORMANCE THAN NOT IN
            (SELECT organisation_id
              FROM offer_requests ofr
          WHERE o.id = ofr.organisation_id);

  Result – 0
  Query Run time – 7ms

- **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 – 19ms

- **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 – 18ms

- **Which organisation has maximum offers and how many offers?**

  Query –

  SELECT o.org_name, count(ofr.id) cnt
         FROM organisations o
             JOIN offers ofr
             ON o.id = ofr.organisation_id
   GROUP BY o.org_name
   ORDER BY cnt DESC
   LIMIT 1;

  Result – moaning_turquoise 10,915
  Query Run time – 113ms

- **Which organisation has minimum offers and how many offers?**

  Query –

  SELECT o.org_name, count(ofr.id) cnt
         FROM organisations o
             JOIN offers ofr
             ON o.id = ofr.organisation_id
   GROUP BY o.org_name
   ORDER BY cnt
   LIMIT 1;

  Result – native_lime 420
  Query Run time – 112ms

- **Which organisation has maximum orders and how many orders?**

  Query –

  SELECT o.org_name, count(ord.id) cnt
         FROM organisations o
             JOIN orders ord
             ON o.id = ord.organisation_id
   GROUP BY o.org_name
   ORDER BY cnt DESC
   LIMIT 1;

  Result - dual_sapphire   32
  Query Run time – 4ms

- **Which organisation has minimum orders and how many orders?**
  Query –

  SELECT o.org_name, count(ord.id) cnt
         FROM organisations o
             JOIN orders ord
             ON o.id = ord.organisation_id
   GROUP BY o.org_name
   ORDER BY cnt

LIMIT 1;
Result - hollow_amber   1
Query Run time – 4ms

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

  Query –

  SELECT o.org_name, sum(ofr.total_amount) sum_amt
       FROM organisations o
          JOIN offers ofr
          ON o.id = ofr.organisation_id
   GROUP BY o.org_name
   ORDER BY sum_amt DESC
   LIMIT 1;

  Result – moaning_turquoise 324947704
  Query Run time – 116ms

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

  Query –

  SELECT o.org_name, sum(ord.total_amount) sum_amt
       FROM organisations o
          JOIN orders ord
          ON o.id = ord.organisation_id
   GROUP BY o.org_name
   ORDER BY sum_amt DESC
   LIMIT 1;

  Result - dual_sapphire   1123713
  Query Run time – 4ms