**Revolve Solutions SQL Assessment**

1. **How many organisations in total?**

Query –

SELECT **Count** (1)  
FROM   organisations;

Result – 100

Query Run time – 5ms

1. **How many organisations do not have offer\_requests?**

Query –

SELECT Count (1) AS have\_offer\_requests  
FROM   ((SELECT DISTINCT( id )  
         FROM   organisations)  
        EXCEPT  
        (SELECT DISTINCT( organisation\_id )  
         FROM   offer\_requests)) AS result;

Result – 0

Query Run time – 19ms

1. **How many organisations have offer\_requests?**

Query –

SELECT **Count**(1) AS have\_offer\_requests  
FROM   ((SELECT DISTINCT( id )  
         FROM   organisations)  
        INTERSECT  
        (SELECT DISTINCT( organisation\_id )  
         FROM   offer\_requests)) AS result;

Result -100

Query Run time – 21ms

1. **How many organisations have no offers?**

Query –

SELECT Count(1) AS have\_no\_offers  
 FROM   ((SELECT DISTINCT( id )  
          FROM   organisations)  
         EXCEPT  
         (SELECT DISTINCT( organisation\_id )  
          FROM   offers)) AS result;

Result – 0

Query Run time – 40ms

1. **Which organisation has maximum offers and how many offers?**

Query –

SELECT og.org\_name,  
        **Count**(ofs.organisation\_id) AS max\_offer\_count  
 FROM   offers AS ofs,  
        organisations AS og  
 WHERE  ofs.organisation\_id = og.id  
 GROUP  BY ofs.organisation\_id,  
           og.org\_name  
 ORDER  BY max\_offer\_count DESC  
 LIMIT  1;

Result - **moaning\_turquoise, 10915**

Query Run time – 160ms

1. **Which organisation has minimum offers and how many offers?**

Query –

SELECT og.org\_name,  
        **Count**(ofs.organisation\_id) AS min\_offer\_count  
 FROM   offers AS ofs,  
        organisations AS og  
 WHERE  ofs.organisation\_id = og.id  
 GROUP  BY ofs.organisation\_id,  
           og.org\_name  
 ORDER  BY min\_offer\_count  
 LIMIT  1;

Result – **native\_lime ,420**

Query Run time – 127ms

1. **Which organisation has maximum orders and how many orders?**

Query –

SELECT og.org\_name,  
       **Count**(ods.organisation\_id) AS max\_order\_count  
FROM   orders AS ods,  
       organisations AS og  
WHERE  ods.organisation\_id = og.id  
GROUP  BY ods.organisation\_id,  
          og.org\_name  
ORDER  BY max\_order\_count DESC  
LIMIT  1;

Result – **dual\_sapphire ,32**

Query Run time – 46ms

1. **Which organisation has minimum orders and how many orders?**

**Query –**

SELECT og.org\_name,  
       **Count**(ods.organisation\_id) AS min\_order\_count  
FROM   orders AS ods,  
       organisations AS og  
WHERE  ods.organisation\_id = og.id  
GROUP  BY ods.organisation\_id,  
          og.org\_name  
ORDER  BY min\_order\_count  
LIMIT  1;

**Result – sole\_brown, 1**

**Query Run time –** 33ms

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

**Query –**

SELECT og.org\_name,  
       **Sum**(ofs.total\_amount) AS max\_total\_amount\_offers  
FROM   offers AS ofs,  
       organisations AS og  
WHERE  ofs.organisation\_id = og.id  
GROUP  BY ofs.organisation\_id,  
          og.org\_name  
ORDER  BY max\_total\_amount\_offers DESC  
LIMIT  1;

**Result – moaning\_turquoise, 324947704**

**Query Run time –** 133ms

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

**Query –**

SELECT og.org\_name,  
       **Sum**(od.total\_amount) AS max\_total\_amount\_orders  
FROM   orders AS od,  
       organisations AS og  
WHERE  od.organisation\_id = og.id  
GROUP  BY od.organisation\_id,  
          og.org\_name  
ORDER  BY max\_total\_amount\_orders DESC  
LIMIT  1;

**Result – dual\_sapphire, 1123713**

**Query Run time –** 26ms