

Schema Used

1. How many users does Wave have?

```
SELECT count(distinct u_id integer) from users;
```

2. How many transfers have been sent in the currency CFA?

```
SELECT count(*) FROM transfers WHERE send_amount_currency text = 'CFA';
```

3. How many different users have sent a transfer in CFA?

```
SELECT count(*) FROM transfers WHERE send_amount_currency = 'CFA';
```

4. How many agent transactions did we have in the months of 2018 (broken down by month)?

```
SELECT count(*) FROM agent transaction;
```

5. Over the course of the last week, how many Wave agents were “net depositors” vs. “net withdrawers”?

First find the maximum depositors

```
WITH max-agent-transactions(value) as  
    SELECT max (agent-transactions)  
    FROM agents  
SELECT agent_id integer  
FROM agents, max-agent-transactions  
WHERE account.agent-transactions = max-agent-transactions.value  
SELECT count(*) FROM agents;
```

6. Build an “atx volume city summary” table: find the volume of agent transactions created in the last week, grouped by city.

```
CREATE TABLE atx_summary();  
SELECT COUNT(atx_id integer), city text  
FROM agent_id integer  
GROUP BY city text
```

7. Now separate the atx volume by country as well (so your columns should be country, city, volume).

```
SELECT COUNT (atx_id integer), country text  
FROM agent_id integer  
GROUP BY country text;
```

8. Build a “send volume by country and kind” table: find the total volume of transfers (by send_amount_scalar) sent in the past week, grouped by country and transfer kind.

```
CREATE TABLE transfer_volume()  
SELECT COUNT(send_amount_scalar numeric)  
FROM transfers  
GROUP BY country text  
GROUP BY kind text;
```

9. Then add columns for transaction count and number of unique senders.

```
INSERT INTO transfer_volume (transaction count , no of unique senders)  
FROM transfers  
GROUP BY country text  
GROUP BY kind text;
```

10. Finally, which wallets have sent more than 10,000,000 CFA in transfers in the last month (as identified by the source_wallet_id column on the transfers table), and how much did they send?

```
SELECT count(*) FROM transfers WHERE source_wallet_id integer = '10,000,000';
```