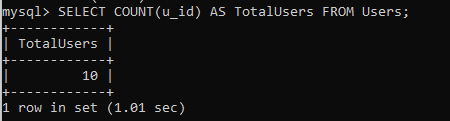
**Adrien NKURIKIYMUKIZA**

**Adrien.nkurikiyumukiza@azubiafrica.org**

**Q1. How many users does Wave have?**

* SELECT COUNT(u\_id) AS TotalUsers FROM wave.users;

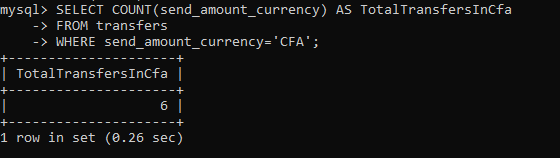


**Q2.** How many transfers have been sent in the currency CFA?

* SELECT COUNT(send\_amount\_currency) AS TotalTransfersInCfa

FROM wave.transfers

WHERE send\_amount\_currency = 'CFA';

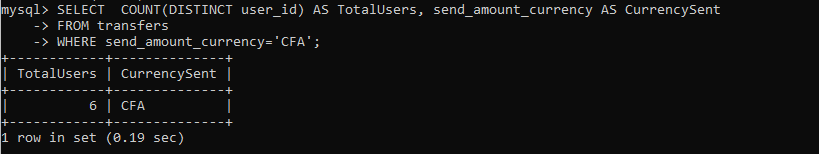


**Q3.** How many different users have sent a transfer in CFA?

* SELECT COUNT(DISTINCT user\_id) AS TotalUsers, send\_amount\_currency AS CurrencySent

FROM wave.transfers

WHERE send\_amount\_currency = 'CFA';



**Q4.** How many agent\_transactions did we have in the months of 2022 (broken down by month)?

* SELECT MONTH(when\_created),

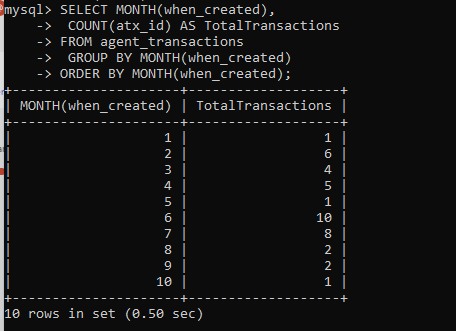
COUNT(atx\_id) AS TotalTransactions

FROM wave.agent\_transactions

WHERE when\_created LIKE '%2022%'

GROUP BY MONTH(when\_created)

ORDER BY MONTH(when\_created);



**Q5.** Over the course of the first half of 2022, how many Wave agents were “net depositors” vs. “net withdrawers”?

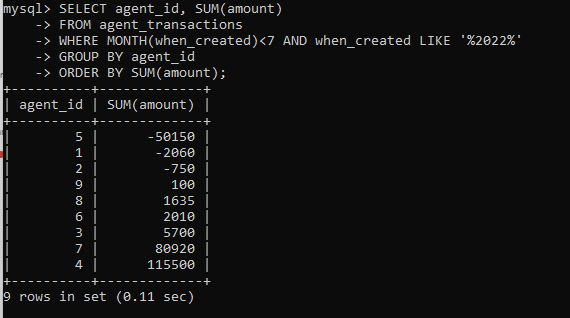
* SELECT agent\_id, SUM(amount)

FROM wave.agent\_transactions

WHERE MONTH(when\_created)<7 AND when\_created LIKE '%2022%'

GROUP BY agent\_id

ORDER BY SUM(amount);



**Q6.** Build an “atx volume city summary” table: find the volume of agent transactions created in the first half of 2022, grouped by city.

* SELECT city, SUM(amount) AS Volume

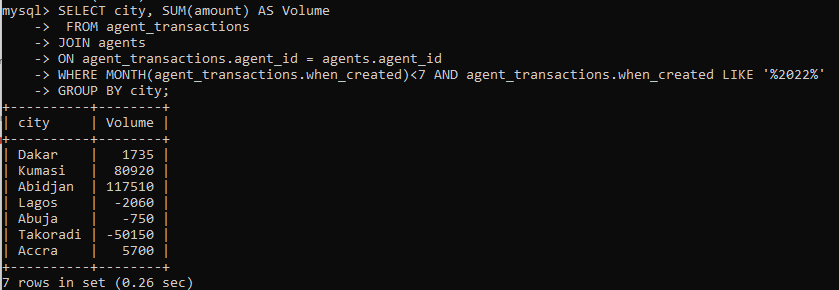
FROM wave.agent\_transactions

JOIN agents

ON agent\_transactions.agent\_id = agents.agent\_id

WHERE MONTH(agent\_transactions.when\_created)<7 AND agent\_transactions.when\_created LIKE '%2022%'

GROUP BY city;



**Q7.** Now separate the atx volume by country as well (so your columns should be country, city, volume).

* SELECT country, city, SUM(amount) AS Volume

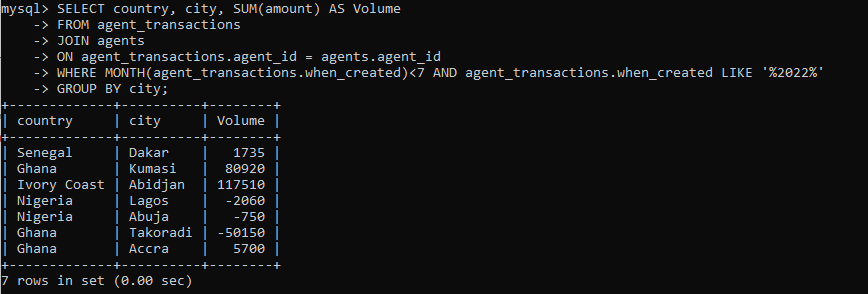
FROM wave.agent\_transactions

JOIN agents

ON agent\_transactions.agent\_id = agents.agent\_id

WHERE MONTH(agent\_transactions.when\_created)<7 AND agent\_transactions.when\_created LIKE '%2022%'

GROUP BY city;



**Q8.** Build a “send volume by country and kind” table: find the total volume of transfers (by send\_amount\_scalar) sent in the first half of 2022, grouped by country and transfer kind.

* SELECT ledger\_location AS country, kind AS transfer\_kind, SUM(send\_amount\_scalar) AS volume

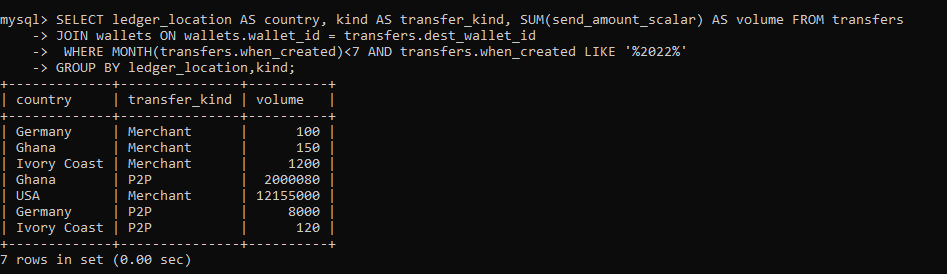
FROM wave.transfers

JOIN wallets

ON wallets.wallet\_id = transfers.dest\_wallet\_id

WHERE MONTH(transfers.when\_created)<7 AND transfers.when\_created LIKE '%2022%'

GROUP BY ledger\_location,kind;



**Q9.** Then add columns for transaction count and number of unique senders (still broken down by country and transfer kind).

* SELECT ledger\_location AS country, kind AS transfer\_kind, SUM(send\_amount\_scalar) AS volume,

COUNT(transfer\_id), COUNT(DISTINCT user\_id)

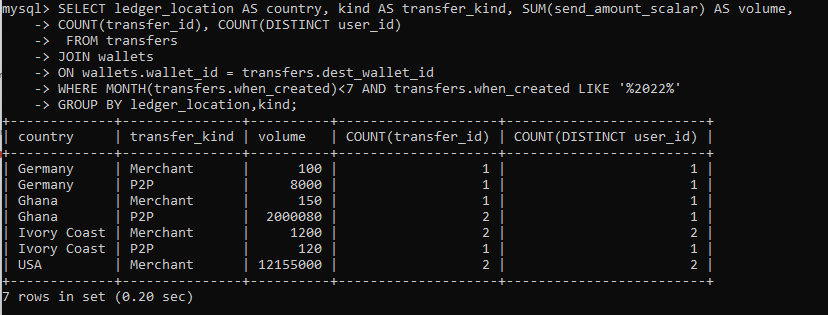
FROM wave.transfers

JOIN wallets

ON wallets.wallet\_id = transfers.dest\_wallet\_id

WHERE MONTH(transfers.when\_created)<7 AND transfers.when\_created LIKE '%2022%'

GROUP BY ledger\_location,kind;



**Q10.** Finally, which wallets sent more than 1,000,000 CFA in transfers in the first quarter (as identified by the source\_wallet\_id column on the transfers table), and how much did they send?

* SELECT source\_wallet\_id, send\_amount\_scalar

FROM wave.transfers

WHERE send\_amount\_currency = 'CFA'

AND send\_amount\_scalar > 1000000

AND MONTH(when\_created) < 4;

