Name: Felix Kiprono Bett

Peer Group 2

**QUESTION ONE (1)**

**-- How many users does Wave have?**

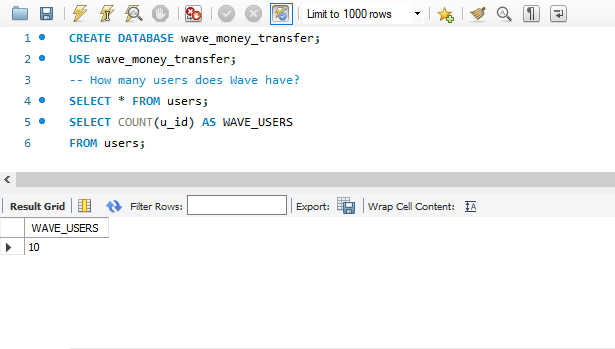
CREATE DATABASE wave\_money\_transfer;

USE wave\_money\_transfer;

SELECT \* FROM users;

SELECT COUNT(u\_id) AS WAVE\_USERS

FROM users;



**QUESTION TWO (2)**

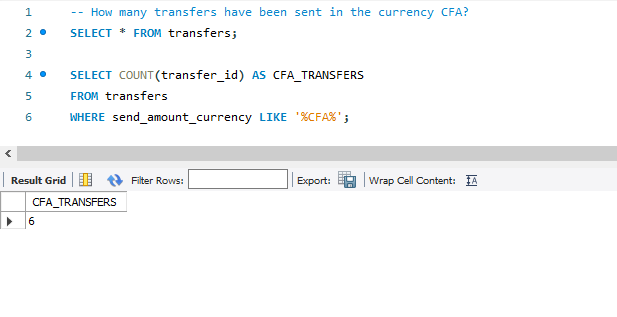
**-- How many transfers have been sent in the currency CFA?**

SELECT \* FROM transfers;

SELECT COUNT(transfer\_id) AS CFA\_TRANSFERS

FROM transfers

WHERE send\_amount\_currency LIKE '%CFA%';

****

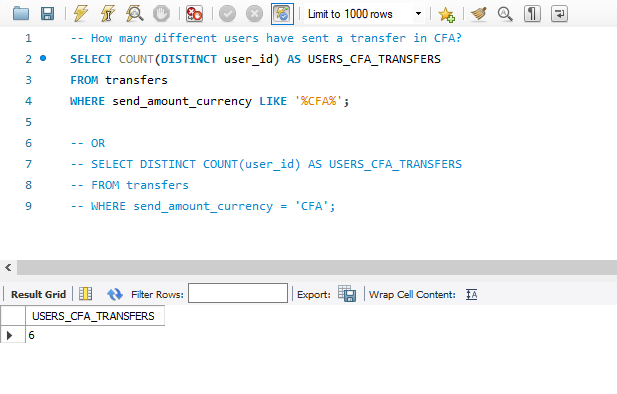
**QUESTION THREE (3)**

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

SELECT COUNT(DISTINCT user\_id) AS USERS\_CFA\_TRANSFERS

FROM transfers

WHERE send\_amount\_currency LIKE '%CFA%';



**QUESTION FOUR (4)**

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

SELECT SUBSTR(when\_created,4,2) AS Month, COUNT(atx\_id) AS 'No. of Agent Transactions'

FROM agent\_transactions

WHERE SUBSTR(when\_created,7,4) = 2022

GROUP BY SUBSTR(when\_created,4,2)

ORDER BY SUBSTR(when\_created,4,2);

Graphical user interface, text, application

Description automatically generated with medium confidence

**QUESTION FIVE (5)**

**-- Over the course of the first half of 2022,**

**-- how many Wave agents were "net depositers" vs "net withdrawers"?**

SELECT

CASE

WHEN total < 0 THEN 'Net Depositors'

ELSE 'Net withdrawers'

END AS AgentType,

COUNT(\*) AS Agents FROM (SELECT agent\_id, SUM(amount) AS Total

FROM agent\_transactions

WHERE when\_created BETWEEN '01/01/2022' AND '30/06/2022'

GROUP BY 1) sub

GROUP BY 1;

Graphical user interface, text, application

Description automatically generated

**QUESTION SIX (6)**

**-- Build an "atx volume city summary" table:**

**-- find the volume of agent transactions created in the first half of 2022, grouped by city.**

**-- You can determine the city where the agent transactions took place from the agent's city field.**

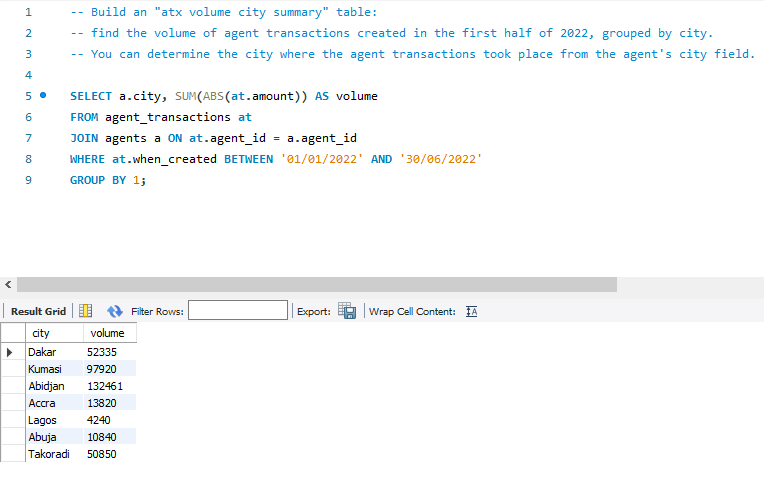
SELECT a.city, SUM(ABS(at.amount)) AS volume

FROM agent\_transactions at

JOIN agents a ON at.agent\_id = a.agent\_id

WHERE at.when\_created BETWEEN '01/01/2022' AND '30/06/2022'

GROUP BY 1;



**QUESTION SEVEN (7)**

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

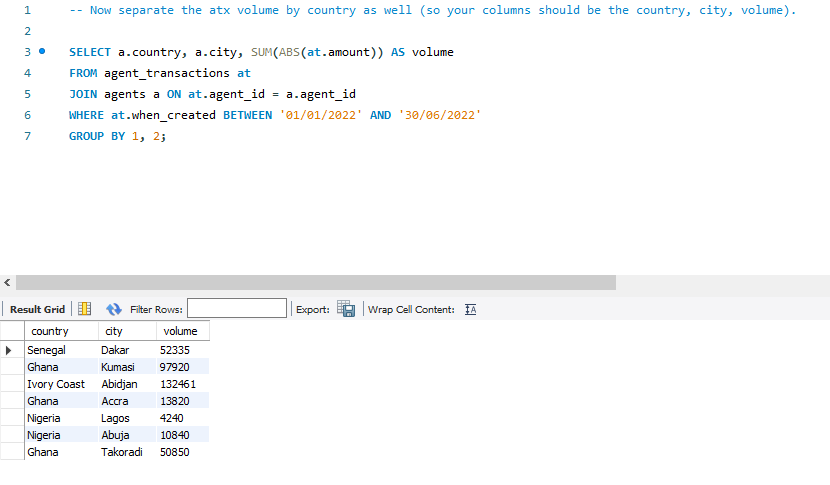
SELECT a.country, a.city, SUM(ABS(at.amount)) AS volume

FROM agent\_transactions at

JOIN agents a ON at.agent\_id = a.agent\_id

WHERE at.when\_created BETWEEN '01/01/2022' AND '30/06/2022'

GROUP BY 1, 2;



**QUESTION EIGHT (8)**

**-- Build a "send volume by country 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.**

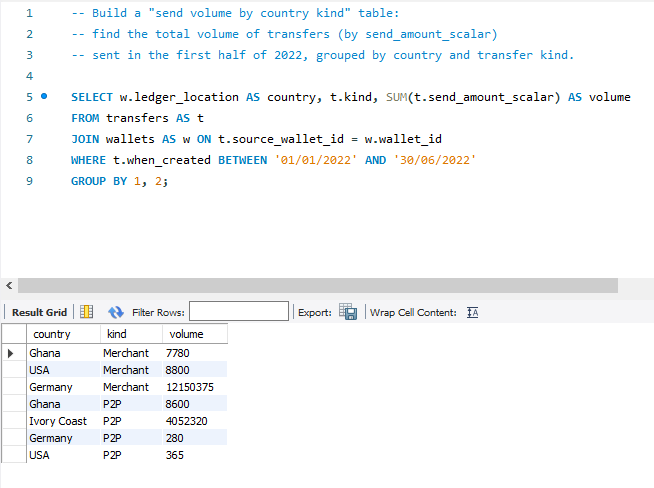
SELECT w.ledger\_location AS country, t.kind, SUM(t.send\_amount\_scalar) AS volume

FROM transfers AS t

JOIN wallets AS w ON t.source\_wallet\_id = w.wallet\_id

WHERE t.when\_created BETWEEN '01/01/2022' AND '30/06/2022'

GROUP BY 1, 2;



**QUESTION NINE (9)**

**-- Then add columns for transactions count and number of unique senders**

**-- (still broken down by country and transfer kind).**

SELECT w.ledger\_location AS country, t.kind, SUM(t.send\_amount\_scalar) AS volume,

COUNT(\*) AS transactions, COUNT(DISTINCT user\_id) AS 'unique users'

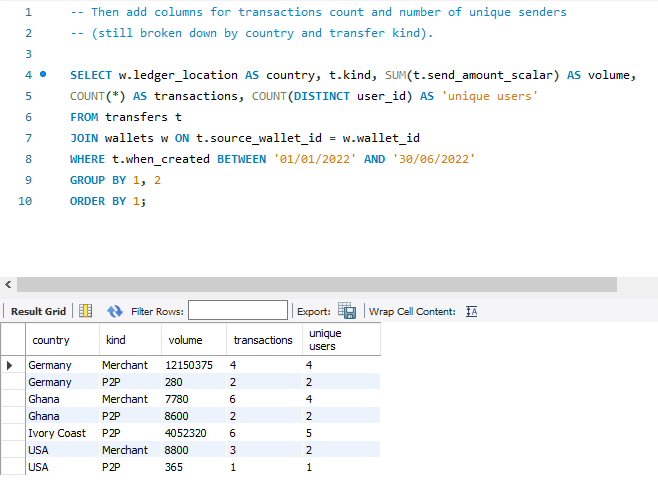
FROM transfers t

JOIN wallets w ON t.source\_wallet\_id = w.wallet\_id

WHERE t.when\_created BETWEEN '01/01/2022' AND '30/06/2022'

GROUP BY 1, 2

ORDER BY 1;



**QUESTION TEN (10)**

**-- 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 they send?**

SELECT source\_wallet\_id AS Wallets, SUM(send\_amount\_scalar) AS 'Amount Sent'

FROM transfers

WHERE send\_amount\_currency = 'CFA'

AND (when\_created BETWEEN '01/01/2022' AND '31/03/2022')

GROUP BY 1

HAVING SUM(send\_amount\_scalar) > 1000000;

