DATA BANK

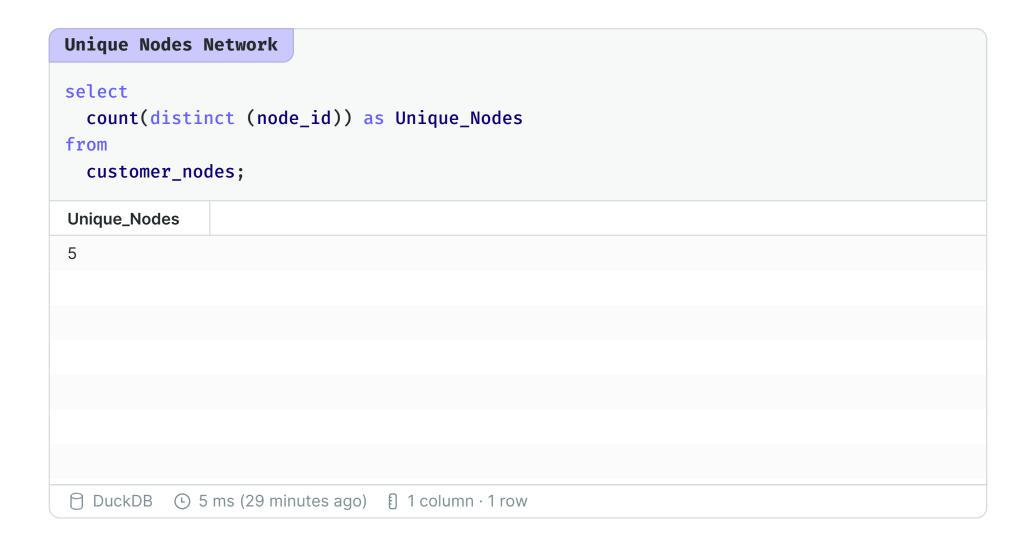
BY ANUSH BHARATHWAJ L

customer_no	ues					customer_tra	alisactions	
customer_nodes.csv						customer_transactions.csv		
customer_id	region_id	node_id	start_date	end_date		customer_id	txn_date	txn_t
1	3	4	2020-01-02	2020-01-03		429	2020-01-21	depo
2	3	5	2020-01-03	2020-01-17		155	2020-01-10	depo
3	5	4	2020-01-27	2020-02-18		398	2020-01-01	depo
4	5	4	2020-01-07	2020-01-19		255	2020-01-14	depo
5	3	3	2020-01-15	2020-01-23		185	2020-01-29	depo
6	1	1	2020-01-11	2020-02-06		309	2020-01-13	depo
7	2	5	2020-01-20	2020-02-04		312	2020-01-20	depo
3	1	2	2020-01-15	2020-01-28		376	2020-01-03	depo
9	4	5	2020-01-21	2020-01-25		188	2020-01-13	depo
10	3	4	2020-01-13	2020-01-14		138	2020-01-11	depo
11	2	5	2020-01-19	2020-01-25		373	2020-01-18	depo
DuckDB () 3 ms (1 hour	ago) [] 5 co	olumns · 3,500 rov	VS		DuckDB ©) 1 ms (1 hour ago)) [4

customer_transactions.csv										
customer_id	txn_date	txn_type	txn_amount							
429	2020-01-21	deposit	82							
155	2020-01-10	deposit	712							
398	2020-01-01	deposit	196							
255	2020-01-14	deposit	563							
185	2020-01-29	deposit	626							
309	2020-01-13	deposit	995							
312	2020-01-20	deposit	485							
376	2020-01-03	deposit	706							
188	2020-01-13	deposit	601							
138	2020-01-11	deposit	520							
373	2020-01-18	deposit	596							
DuckDB	① 1 ms (1 hour ago)	a column	ns · 5,868 rows							

regions regions.csv region_id region_name Australia 2 America 3 Africa Asia 4 5 Europe DuckDB • 1 ms (1 hour ago)

A) How many different nodes make up the Data Bank network?



B) How many nodes are there in each region?

```
Nodes By Region
select
  r.region_name,
 count(cn.node_id) as count_no
  customer_nodes cn
 inner join regions r on cn.region_id = r.region_id
group by
 r.region_name
order by
 r.region_name;
region_name
              count_no
             714
Africa
America
              735
              665
Asia
             770
Australia
Europe
              616
DuckDB 4 ms (28 minutes ago) 2 columns · 5 rows
```

C) How many customers are divided among the regions?



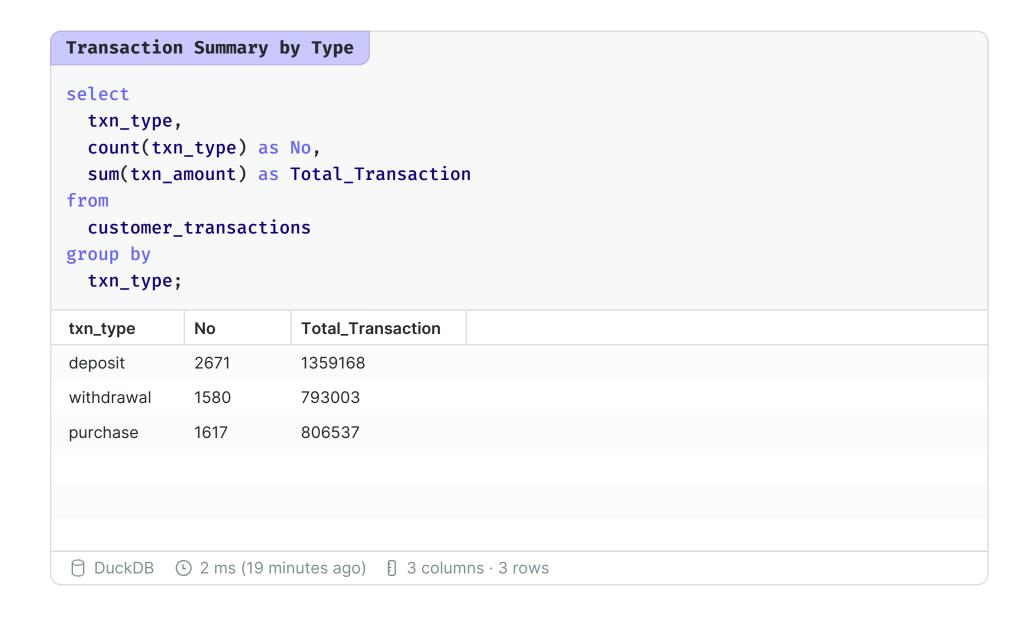
D) Determine the total amount of transactions for each region name?



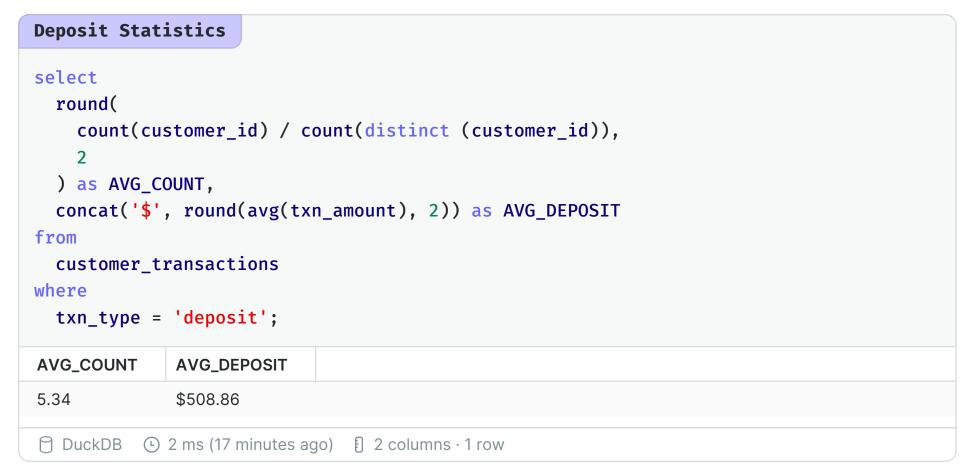
E) How long does it take on an average to move clients to a new node?



F) What is the unique count and total amount for each transaction type?



G) What is the average number and size of past deposits across all customers?



H) For each month - how many Data Bank customers make more than 1 deposit and at least either 1 purchase or 1 withdrawal in a single month?



Sources And Refrences

Query Dataset: https://drive.google.com/drive/folders/10ELDsgZbwZQxtPdrgieqvC5fKApwWg2C

CSV Dataset: https://drive.google.com/drive/folders/1zcWPOK4OgsePIHpK95r023t1vQzaflgd?usp=sharing

My Portfolio: https://anushbharathwaj.w3spaces.com/

Report: https://drive.google.com/file/d/1RLhiBUw70xdJiWkBuEdOvqAhcqNrYotd/view?

<u>usp=sharing</u>