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// 當建立資料庫時，利用以下語法進行新增使用者

:server user add

// 查詢所有節點和關係

MATCH (n)

RETURN n

// 格式化整個資料庫

MATCH (n)

DETACH DELETE n

// 查詢該地址的節點是否被創建過

MATCH (a:Address)

WHERE a.address CONTAINS '3PUe6B3D36Y8EPE63j1hSZAsiJrrMK3kov'

RETURN a

// 查詢該節點的數量

MATCH (n:Transaction)

RETURN COUNT(n) AS transactionCount

// 查詢語法

MATCH p=(:Address)-->(T:Transaction)-->(:Address)

WHERE T.DustBool = "1"

RETURN p

// 查詢語法2

MATCH p=()-->(T:Transaction)-->()

WHERE T.DustBool = "1"

WITH T ORDER BY rand() LIMIT 1

MATCH (T)--(relatedNode)

RETURN T, relatedNode

// 查詢語法3

MATCH p=()-->(T1)-->()-->(T2)-->()-->(T3)-->()

WHERE T1.DustBool = "1" AND T2.DustBool = "1"AND T3.DustBool = "1" AND T1.TxnHash <> T2.TxnHash <> T3.TxnHash

WITH T1, T2, T3 ORDER BY rand() LIMIT 1

MATCH (T1)--(relatedNode)

MATCH (T2)--(relatedNode)

MATCH (T3)--(relatedNode)

RETURN T1, T2, T3, relatedNode

// step1.創建transaction的節點

// 創建輸入錢包節點

CREATE (:Address {address: '3FHg2LyF7aMn6RjeADYFzCY2nsstpKDMYg'})

CREATE (:Address {address: '3GKVt7kfhaetDnzb9gzbK6GDZHJn46EXfU'})

CREATE (:Address {address: '3Evpu16Kq98M226ca4jxZjFJZwMPM1BVbc'})

CREATE (:Address {address: '3PUe6B3D36Y8EPE63j1hSZAsiJrrMK3kov'})

// 創建交易節點

CREATE (:Transaction {

hash: 'ce4b314c0b55a24d11dca58727854da35356f3c58228acf9aee2989be0c42fb0',

fees: '0.00001015',

input\_count: 1,

output\_count: 2,

dust\_bool:1

})

// step2.創建transaction的關係

MATCH (input:Address {address: '3FHg2LyF7aMn6RjeADYFzCY2nsstpKDMYg'}),

(input2:Address {address: '3GKVt7kfhaetDnzb9gzbK6GDZHJn46EXfU'}),

(transaction:Transaction {hash: 'ce4b314c0b55a24d11dca58727854da35356f3c58228acf9aee2989be0c42fb0'}),

(output:Address {address: '3Evpu16Kq98M226ca4jxZjFJZwMPM1BVbc'}),

(output2:Address {address: '3PUe6B3D36Y8EPE63j1hSZAsiJrrMK3kov'})

CREATE (input)-[:SENT {amount: '0.06258836 BTC'}]->(transaction),

(input2)-[:SENT {amount: '0.135 BTC'}]->(transaction),

(transaction)-[:RECEIVED {amount: '0.06218752 BTC'}]->(output),

(transaction)-[:RECEIVED {amount: '0.135 BTC'}]->(output2)

transaction2-----------------------------------------------------------------------------------------

// 創建輸入錢包節點

CREATE (:Address {address: '3Lax1hmvpWcBetxfAZmr4SiFFyTCG52yxV'})

// 創建交易節點

CREATE (:Transaction {

hash: 'ad34ac2939f29205d60c328e680a919a2c79b44b38fac51d5c975bd82895c19f',

fees: '0.00038218',

input\_count: 2,

output\_count: 2,

dust\_bool:1

})

MATCH (input:Address {address: '3GKVt7kfhaetDnzb9gzbK6GDZHJn46EXfU'}),

(input2:Address {address: '3Evpu16Kq98M226ca4jxZjFJZwMPM1BVbc'}),

(transaction:Transaction {hash: 'ad34ac2939f29205d60c328e680a919a2c79b44b38fac51d5c975bd82895c19f'}),

(output:Address {address: '3Lax1hmvpWcBetxfAZmr4SiFFyTCG52yxV'}),

(output2:Address {address: '3PUe6B3D36Y8EPE63j1hSZAsiJrrMK3kov'})

CREATE (input)-[:SENT {amount: '0.90800000 BTC'}]->(transaction),

(input2)-[:SENT {amount: '0.06218752 BTC'}]->(transaction),

(transaction)-[:RECEIVED {amount: '0.06180534 BTC'}]->(output),

(transaction)-[:RECEIVED {amount: '0.90800000 BTC'}]->(output2)

transaction3-----------------------------------------------------------------------------------------

// 創建輸入錢包節點

CREATE (:Address {address: '3GZedQ78uH7xktucM1UxdyBPDMgtNr8YoJ'})

CREATE (:Address {address: '3MzQdC2AQ6F77y25Pwy28QKwmYFv5DUWej'})

CREATE (:Address {address: 'bc1qlaw9lygwc342d8nvrrllculgrxwyalpr5k47y3'})

// 創建交易節點

CREATE (:Transaction {

hash: '81e80c145da8668e1048e6798773f83374fa5fd541d19740115cb24106603975',

fees: '0.00007980',

input\_count: 2,

output\_count: 2,

dust\_bool:0

})

MATCH (input:Address {address: '3GZedQ78uH7xktucM1UxdyBPDMgtNr8YoJ'}),

(input2:Address {address: '3PUe6B3D36Y8EPE63j1hSZAsiJrrMK3kov'}),

(transaction:Transaction {hash: '81e80c145da8668e1048e6798773f83374fa5fd541d19740115cb24106603975'}),

(output:Address {address: '3MzQdC2AQ6F77y25Pwy28QKwmYFv5DUWej'}),

(output2:Address {address: 'bc1qlaw9lygwc342d8nvrrllculgrxwyalpr5k47y3'})

CREATE (input)-[:SENT {amount: '0.37269625 BTC'}]->(transaction),

(input2)-[:SENT {amount: '0.65600000 BTC'}]->(transaction),

(transaction)-[:RECEIVED {amount: '0.22861645 BTC'}]->(output),

(transaction)-[:RECEIVED {amount: '0.80000000 BTC'}]->(output2)

transaction4-----------------------------------------------------------------------------------------

// 創建輸入錢包節點

CREATE (:Address {address: '3MR4bgFxRxWt9oEUSMajXft7F4Y54U4q1N'})

CREATE (:Address {address: '36rGLSJoJUmu8bENi67E8daXiBUTNPCBzL'})

CREATE (:Address {address: 'bc1qy8c4ce763rdsnkz3qnraaq2y05lu735r458d4w'})

// 創建交易節點

CREATE (:Transaction {

hash: 'b9bfdacde567774a43fb899cab5c19a04776ca450fc631a81f2d968d78fc6da0',

fees: '0.00021011',

input\_count: 5,

output\_count: 2,

dust\_bool:1

})

MATCH (input:Address {address: '3Lax1hmvpWcBetxfAZmr4SiFFyTCG52yxV'}),

(input2:Address {address: '3GKVt7kfhaetDnzb9gzbK6GDZHJn46EXfU'}),

(input3:Address {address: '3GKVt7kfhaetDnzb9gzbK6GDZHJn46EXfU'}),

(input4:Address {address: '3MR4bgFxRxWt9oEUSMajXft7F4Y54U4q1N'}),

(input5:Address {address: '3GKVt7kfhaetDnzb9gzbK6GDZHJn46EXfU'}),

(transaction:Transaction {hash: 'b9bfdacde567774a43fb899cab5c19a04776ca450fc631a81f2d968d78fc6da0'}),

(output:Address {address: '36rGLSJoJUmu8bENi67E8daXiBUTNPCBzL'}),

(output2:Address {address: 'bc1qy8c4ce763rdsnkz3qnraaq2y05lu735r458d4w'})

CREATE (input)-[:SENT {amount: '0.06180534 BTC'}]->(transaction),

(input2)-[:SENT {amount: '0.31200000 BTC'}]->(transaction),

(input3)-[:SENT {amount: '0.67600000 BTC'}]->(transaction),

(input4)-[:SENT {amount: '0.13889210 BTC'}]->(transaction),

(input5)-[:SENT {amount: '1.53400000 BTC'}]->(transaction),

(transaction)-[:RECEIVED {amount: '0.06148733 BTC'}]->(output),

(transaction)-[:RECEIVED {amount: '2.66100000 BTC'}]->(output2)