Project Documentation Idea

Schema:





Possible exploration:

-- Get total portfolio value for each user

SELECT

u.first\_name,

u.last\_name,

SUM(w.value \* c.price) as portfolio\_value\_usd

FROM user u

JOIN user\_wallet w ON u.user\_id = w.user\_id

JOIN cryptocurrency c ON w.crypto\_id = c.crypto\_id

GROUP BY u.user\_id, u.first\_name, u.last\_name;

-- Get detailed portfolio breakdown for a specific user (e.g., user\_id = 1)

SELECT

c.crypto\_name,

c.ticker,

w.value as quantity,

c.price as current\_price,

(w.value \* c.price) as total\_value\_usd

FROM user\_wallet w

JOIN cryptocurrency c ON w.crypto\_id = c.crypto\_id

WHERE w.user\_id = 1;

-- Get all transactions for a specific user with crypto details

SELECT

t.transaction\_id,

c.ticker,

t.amount,

t.price\_at\_tx,

(t.amount \* t.price\_at\_tx) as transaction\_value\_usd,

t.tx\_hash

FROM transaction t

JOIN cryptocurrency c ON t.crypto\_id = c.crypto\_id

WHERE t.user\_id = 1

ORDER BY t.transaction\_id;

-- Get users who hold a specific cryptocurrency (e.g., BTC)

SELECT

u.first\_name,

u.last\_name,

w.value as btc\_balance,

w.wallet\_addr

FROM user u

JOIN user\_wallet w ON u.user\_id = w.user\_id

JOIN cryptocurrency c ON w.crypto\_id = c.crypto\_id

WHERE c.ticker = 'BTC';