**1**

SELECT country\_code country,

count(distinct u.user\_id) as number\_of\_users,

count(distinct (case when operation\_type='deposit' then b.user\_id end)) as number\_of\_users\_w\_deposit,

round(avg(case when operation\_type='deposit' then operation\_amount\_usd end), 2) as avg\_deposit,

round(avg(case when operation\_type='withdrawal' then operation\_amount\_usd end), 2) as avg\_withdrawal

FROM exness.users as u

left join exness.balance as b on u.user\_id=b.user\_id

group by 1

order by 2 desc

**2**

WITH max\_user AS (

SELECT

user\_id,

round(sum(profit\_usd), 2) profit\_usd,

count(\*) amount\_of\_deals,

count(case when profit\_usd>0 then 1 end) amount\_of\_profit\_deals

FROM exness.orders

GROUP BY 1

ORDER BY 2 DESC

LIMIT 1

),

symbol\_most\_pop AS (

SELECT o.user\_id, symbol, count(\*) as cnt

FROM exness.orders AS o

INNER JOIN max\_user AS m on m.user\_id=o.user\_id

GROUP BY 1, 2

ORDER BY 3 desc

limit 1

),

symbol\_highest\_prof AS (

SELECT o.user\_id, symbol, sum(o.profit\_usd) as profit\_usd

FROM exness.orders AS o

INNER JOIN max\_user AS m on m.user\_id=o.user\_id

GROUP BY 1, 2

ORDER BY 3 desc

limit 1

),

symbol\_highest\_loss AS (

SELECT o.user\_id, symbol, sum(o.profit\_usd) as profit\_usd

FROM exness.orders AS o

INNER JOIN max\_user AS m on m.user\_id=o.user\_id

GROUP BY 1, 2

ORDER BY 3 asc

limit 1

)

SELECT m.user\_id, country\_code country, m.profit\_usd, amount\_of\_deals, amount\_of\_profit\_deals,

pop.symbol AS most\_popular\_symbol, p.symbol AS highest\_profit, l.symbol AS highest\_loss

FROM max\_user AS m

INNER JOIN exness.users AS u ON u.user\_id=m.user\_id

INNER JOIN symbol\_most\_pop AS pop ON pop.user\_id=m.user\_id

INNER JOIN symbol\_highest\_prof AS p ON p.user\_id=m.user\_id

INNER JOIN symbol\_highest\_loss AS l ON l.user\_id=m.user\_id

**3**

WITH deposit AS(

SELECT user\_id, operation\_time AS datetime\_first\_dep, operation\_amount\_usd AS amount\_first\_dep

FROM(

SELECT user\_id, operation\_time, operation\_amount\_usd,

row\_number() OVER(PARTITION BY user\_id ORDER BY operation\_time asc) as rn

FROM exness.balance

WHERE operation\_type='deposit'

) as a1

WHERE rn=1

),

trade AS(

SELECT user\_id, open\_time datetime\_first\_trade, profit\_usd profit\_first\_trade

FROM(

SELECT user\_id, open\_time, profit\_usd,

row\_number() OVER(PARTITION BY user\_id ORDER BY open\_time asc) as rn

FROM exness.orders

) as a2

WHERE rn=1

),

dep\_30\_days AS(

SELECT u.user\_id,

sum(case when operation\_type='deposit' then operation\_amount\_usd end) as deposit\_30\_days,

sum(case when operation\_type='withdrawal' then operation\_amount\_usd end) as withdrawal\_30\_days

FROM exness.users AS u

LEFT JOIN exness.balance AS b on b.user\_id=u.user\_id

WHERE date(date\_add(registration\_time, interval 30 day))>=date(b.operation\_time)

GROUP BY 1

),

profit AS(

SELECT u.user\_id,

sum(case when date(date\_add(registration\_time, interval 30 day))>=date(o.close\_time) then profit\_usd end) as profit\_30\_days,

sum(profit\_usd) as profit\_all

FROM exness.users AS u

LEFT JOIN exness.orders AS o on o.user\_id=u.user\_id

GROUP BY 1

)

SELECT u.user\_id, u.country\_code, u.registration\_time,

datetime\_first\_dep, datetime\_first\_trade, amount\_first\_dep, profit\_first\_trade,

round(profit\_30\_days, 2) profit\_30\_days, round(profit\_all, 2) profit\_all

FROM exness.users AS u

LEFT JOIN deposit AS d on d.user\_id=u.user\_id

LEFT JOIN trade AS t on t.user\_id=u.user\_id

LEFT JOIN dep\_30\_days AS d30 on d30.user\_id=u.user\_id

LEFT JOIN profit AS p on p.user\_id=u.user\_id