-- Запрос 1: поиск среднего

SELECT

ROUND(SUM(sale\_amount)/COUNT(sale\_amount),0) AS mean

FROM

orders

-- Запрос 2: поиск медианы

SELECT

ROUND(sale\_amount,0) AS median

FROM

orders

ORDER BY

sale\_amount

OFFSET

(SELECT COUNT(sale\_amount) FROM orders)/2

LIMIT

1

--Запрос 3: поиск дубликатов

SELECT

transaction\_id, COUNT(transaction\_id) AS quantity

FROM

purchases

GROUP BY

transaction\_id

HAVING

COUNT(transaction\_id) > 1

ORDER BY

quantity DESC

--Запрос 4: определение конверсии

SELECT

pivot.country,

pivot.installs,

pivot.trials,

pivot.purchases,

pivot.trials / pivot.installs AS conversion\_rate\_to\_trial,

pivot.purchases / pivot.trials AS conversion\_rate\_to\_purchase

FROM

(

SELECT

country,

COUNT(CASE WHEN event\_type = 'installs' transaction\_id END) AS installs,

COUNT(CASE WHEN event\_type = 'trials' transaction\_id END) AS trials,

COUNT(CASE WHEN event\_type = 'purchases' transaction\_id END) AS purchases

FROM

events

GROUP BY

country) AS pivot