-- What are the top 5 brands by receipts scanned for most recent month?

with cte as (

select

b.name,

dense\_rank() over(order by sum(ro.quantitypurchased) desc) as ranked

from external\_data.vela\_receipt\_orders\_rp ro

left join external\_data.vela\_receipts\_rp r on cast(ro.receipt\_id as varchar) = r.receiptid

left join external\_data.vela\_brands\_rp b on b.barcode = ro.barcode

where b.topbrand = True

and date(r.receipt\_scanneddate) = date\_trunc( 'month', date(current\_date))

group by b.name

)

select name

from cte

where ranked <=5

-- How does the ranking of the top 5 brands by receipts scanned for the recent month compare to the ranking for the previous month?

with cte as (

select

b.name,

dense\_rank() over(partition by date\_trunc('month', date(receipt\_scanneddate)) order by sum(ro.quantitypurchased) desc) as ranked

from external\_data.vela\_receipt\_orders\_rp ro

left join external\_data.vela\_receipts\_rp r on cast(ro.receipt\_id as varchar) = r.receiptid

left join external\_data.vela\_brands\_rp b on b.barcode = ro.barcode

where b.topbrand = True

and date(r.receipt\_scanneddate) between date\_add('month', -1, date\_trunc( 'month', date(current\_date))) and date\_trunc( 'month', date('1970-02-01'))

group by b.name

)

select

name

from cte

where ranked <=5

-- When considering average spend from receipts with 'rewardsReceiptStatus’ of ‘Accepted’ or ‘Rejected’, which is greater?

select

case when

(

avg(case when rewardsReceiptStatus = 'Accepted' then totalspent end) -

avg(case when rewardsReceiptStatus = 'Rejected' then totalspent end)

) > 0

then 'Average spend for Accepted status is greater'

when

(

avg(case when rewardsReceiptStatus = 'Accepted' then totalspent end) -

avg(case when rewardsReceiptStatus = 'Rejected' then totalspent end)

) = 0

then 'Both Accepted and Rejected status transactions have same average spend'

ELSE 'Average spend for Rejected status is greater' end as result

from external\_data.vela\_receipts\_rp

-- When considering total number of items purchased from receipts with 'rewardsReceiptStatus’ of ‘Accepted’ or ‘Rejected’, which is greater?

select

case when

(

sum(case when rewardsReceiptStatus = 'Accepted' then purchaseditemcount end) -

sum(case when rewardsReceiptStatus = 'Rejected' then purchaseditemcount end)

) > 0

then 'Total items purchased for Accepted status is greater'

when

(

sum(case when rewardsReceiptStatus = 'Accepted' then purchaseditemcount end) -

sum(case when rewardsReceiptStatus = 'Rejected' then purchaseditemcount end)

) = 0

then 'Both Accepted and Rejected status transactions have same number of total number of items purchased'

ELSE 'Total items purchased for Rejected status is greater' end as result

from external\_data.vela\_receipts\_rp

-- Which brand has the most spend among users who were created within the past 6 months?

with cte as (

SELECT

b.name,

dense\_rank() over(order by sum(totalspent) desc) as ranked

FROM external\_data.vela\_receipt\_orders\_rp ro

left join external\_data.vela\_receipts\_rp r on cast(ro.receipt\_id as varchar) = r.receiptid

left join external\_data.vela\_brands\_rp b on b.barcode = ro.barcode

where date(receipt\_createdate) between DATE\_ADD('month',-6, DATE\_TRUNC('month', CURRENT\_DATE)) and DATE\_TRUNC('month', CURRENT\_DATE)

group by b.name

)

select

name

from cte

where ranked=1

-- Which brand has the most transactions among users who were created within the past 6 months?

with cte as (

SELECT

b.name,

dense\_rank() over(order by count(cast(receipt\_id as varchar)) desc) as ranked

FROM external\_data.vela\_receipt\_orders\_rp ro

left join external\_data.vela\_receipts\_rp r on cast(ro.receipt\_id as varchar) = r.receiptid

left join external\_data.vela\_brands\_rp b on b.barcode = ro.barcode

where date(receipt\_createdate) between DATE\_ADD('month',-6, DATE\_TRUNC('month', CURRENT\_DATE)) and DATE\_TRUNC('month', CURRENT\_DATE)

group by b.name

)

select

name

from cte

where ranked=1