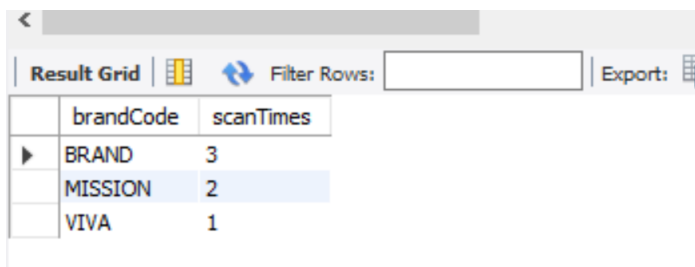


1. What are the top 5 brands by receipts scanned for most recent month?

```
select brandCode, count(receiptId) as scanTimes from
(
    select receipts.receiptId as receiptId, brandCode from receiptitemlist
    inner join receipts on receiptitemlist.receiptId = receipts.receiptId
    where receiptitemlist.brandCode is not null
    and receipts.scanDate between '2021-02-01 00:00:00' and '2021-03-01 00:00:00'
)t1
group by brandCode
order by count(t1.receiptId) desc
limit 5
;
```

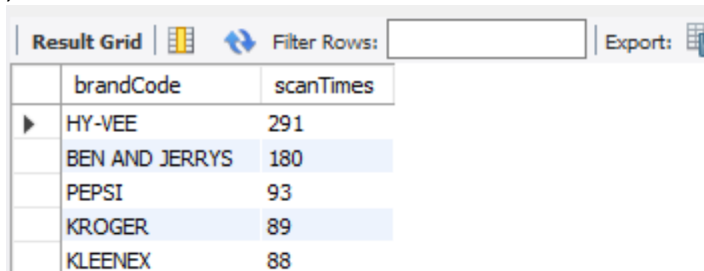


	brandCode	scanTimes
▶	BRAND	3
	MISSION	2
	VIVA	1

There are only 6 results in Feb and the top 3 brands are BRAND, MISSION, VIVA.

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

```
select brandCode, count(receiptId) as scanTimes from
(
    select receipts.receiptId as receiptId, brandCode from receiptitemlist
    inner join receipts on receiptitemlist.receiptId = receipts.receiptId
    where receiptitemlist.brandCode is not null
    and receipts.scanDate between '2021-01-01 00:00:00' and '2021-02-01 00:00:00'
)t1
group by brandCode
order by count(t1.receiptId) desc
limit 5
;
```

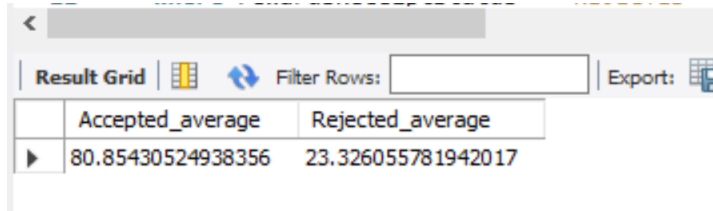


	brandCode	scanTimes
▶	HY-VEE	291
	BEN AND JERRYS	180
	PEPSI	93
	KROGER	89
	KLEENEX	88

The top 5 brands in Jan are HY-VEE, BEN AND JERRYS, PEPSI, KROGER, and KLEENEX.

3. When considering average spend from receipts with 'rewardsReceiptStatus' of 'Accepted' or 'Rejected', which is greater?

```
select avg(case when rewardsReceiptStatus = 'FINISHED' then totalSpent end) as  
Accepted_average,  
avg(case when rewardsReceiptStatus = 'REJECTED' then totalSpent end) as Rejected_average  
from receipts  
;
```



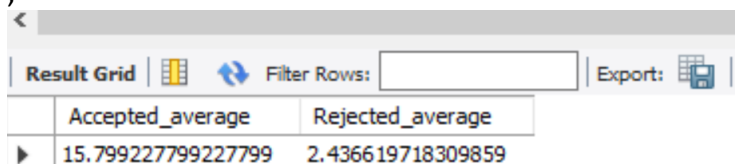
The screenshot shows a database query result grid. At the top, there is a search bar and a 'Filter Rows' field. Below the grid, there are icons for 'Result Grid', a table icon, a refresh icon, and an 'Export' button. The grid has two columns: 'Accepted_average' and 'Rejected_average'. The first row shows the values 80.85430524938356 and 23.326055781942017 respectively.

Accepted_average	Rejected_average
80.85430524938356	23.326055781942017

The accepted average spend is around 80.85 which is greater than rejected average spend.

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

```
select avg(case when rewardsReceiptStatus = 'FINISHED' then purchasedItemCount end) as  
Accepted_average,  
avg(case when rewardsReceiptStatus = 'REJECTED' then purchasedItemCount end) as  
Rejected_average  
from receipts  
;
```



The screenshot shows a database query result grid. At the top, there is a search bar and a 'Filter Rows' field. Below the grid, there are icons for 'Result Grid', a table icon, a refresh icon, and an 'Export' button. The grid has two columns: 'Accepted_average' and 'Rejected_average'. The first row shows the values 15.799227799227799 and 2.436619718309859 respectively.

Accepted_average	Rejected_average
15.799227799227799	2.436619718309859

The total number of items purchased from accepted rewards receipts is 15.80 which is greater than that from rejected rewards receipts.

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

```
select brandCode, sum(finalPrice) as total_spend from(  
  select brandCode, finalPrice from receipts  
  inner join receiptitemlist on receipts.receiptId = receiptitemlist.receiptId  
  inner join users on receipts.userId = users.userId  
  where users.createdDate between current_date() - interval 6 month and current_date()  
  and brandCode is not null
```

```

)t1
group by brandCode
order by sum(finalPrice) desc
limit 1
;

```

Result Grid		
	brandCode	total_spend
▶	BEN AND JERRYS	1217.4000000953674
	HEMPLER'S	800.5500018596649
	CRACKER BARREL	703.4999847412109
	HY-VEE	656.6199933290482
	KNORR	543.3200006484985

BEN AND JERRYS has the most spend among users who were created within the past 6 months.

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

```

select brandCode, count(1) as transactions from(
    select brandCode, finalPrice from receipts
    inner join receiptitemlist on receipts.receiptId = receiptitemlist.receiptId
    inner join users on receipts.userId = users.userId
    where users.createdDate between current_date() - interval 6 month and current_date()
    and brandCode is not null

```

```

)t1
group by brandCode
order by count(1) desc
limit 1
;

```

Result Grid		
	brandCode	transactions
▶	HY-VEE	291
	BEN AND JERRYS	100
	PEPSI	74
	KLEENEX	70
	KNORR	60

HY-VEE has the most transactions among users who were created within the past 6 months.