

## Fetch Rewards SQL output

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

```
1 select distinct b.brandCode, count(*) as Frequency
2 from receipts_final a left join rewardsReceiptItemList_final b
3 on a_id = b_id
4 where (select max(JULIANDAY( date(dateScanned))) from receipts_final)
5 - JULIANDAY(date(dateScanned)) <= 30 and b.brandCode is not NULL and b.brandCode != 'Null'
6 group by b.brandCode
7 order by count(*) DESC
8 limit 5
```

	brandCode	Frequency
1	BRAND	3
2	MISSION	2
3	VIVA	1

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?

```
1 select distinct b.brandCode, count(*) as Frequency
2 from receipts_final a left join rewardsReceiptItemList_final b
3 on a_id = b_id
4 where (select max(JULIANDAY( date(dateScanned))) from receipts_final)
5 - JULIANDAY(date(dateScanned)) <= 60
6 and (select max(JULIANDAY( date(dateScanned))) from receipts_final)
7 - JULIANDAY(date(dateScanned)) > 30
8 and b.brandCode is not NULL and b.brandCode != 'Null'
9 group by b.brandCode
10 order by count(*) DESC
11 limit 5
```

	brandCode	Frequency
1	HY-VEE	291
2	BEN AND JERRYS	180
3	PEPSI	93
4	KROGER	89
5	KLEENEX	88

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

```
1 select
2 case WHEN (select avg(totalSpent) from receipts_final where rewardsReceiptStatus = 'FINISHED') >
3 (select avg(totalSpent) from receipts_final where rewardsReceiptStatus = 'REJECTED')
4 THEN 'Average spent for receipts accepted is greater'
5 else 'Average spent for receipts rejected is greater' end
6 as Result
```

	Result
1	Average spent for receipts accepted is greater

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

```
1 select
2 case WHEN (select sum(purchasedItemCount) from receipts_final where rewardsReceiptStatus = 'FINISHED') >
3 (select sum(purchasedItemCount) from receipts_final where rewardsReceiptStatus = 'REJECTED')
4 THEN 'Total items purchased for receipts accepted is greater'
5 else 'Total items purchased for receipts rejected is greater' end
6 as Result
```

	Result
1	Total Items purchased for receipts accepted is greater

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

```
1 select b.brandCode, sum(finalPrice) as Spent
2 from receipts_final a left join rewardsReceiptItemList_final b
3 on a._id = b._id and a.userId in (
4 select _id from users_final where (select max(JULIANDAY( date(createdDate))) from users_final)
5 - JULIANDAY( date(createdDate)) <= 180
6 )
7 where b.brandCode != 'Null' and b.brandCode is not NULL
8 group by b.brandCode
9 order by Spent DESC
10 limit 1
```

	brandCode	Spent
1	BEN AND JERRYS	1217.4

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

```
1 select b.brandCode, count(b._id) as Transaction_Count
2 from receipts_final a left join rewardsReceiptItemList_final b
3 on a._id = b._id and a.userId in (
4 select _id from users_final where (select max(JULIANDAY( date(createdDate))) from users_final)
5 - JULIANDAY( date(createdDate)) <= 180
6 )
7 where b.brandCode != 'Null' and b.brandCode is not NULL
8 group by b.brandCode
9 order by Transaction_Count DESC
10 limit 1
```

	brandCode	Transaction_Count
1	HY-VEE	291