SQL queries

1) When considering *average spend* from receipts with 'rewardsReceiptStatus' of 'Accepted' or 'Rejected', which is greater?

SELECT rewardsReceiptStatus, AVG(totalSpent) AS avg_spend FROM Receipt WHERE rewardsReceiptStatus IN ('Accepted', 'Rejected') GROUP BY rewardsReceiptStatus;

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

SELECT rewardsReceiptStatus, SUM(purchasedItemCount) AS total_items FROM Receipt WHERE rewardsReceiptStatus IN ('Accepted', 'Rejected') GROUP BY rewardsReceiptStatus;

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

WITH RecentUsers AS (SELECT _id FROM User WHERE createdDate >= Dateadd(Month, Datediff(Month, 0, DATEADD(m, -6, current_timestamp)), 0), ReceiptItems AS (SELECT r.userId, ri.brandCode, CAST(ri.finalPrice AS FLOAT) AS finalPrice FROM Receipt r JOIN RecentUsers u ON r.userId = u._id JOIN RewardsReceiptItemList ri ON r._id = ri.receiptId WHERE r.rewardsReceiptStatus IN ('Accepted', 'Rejected')) SELECT b.name AS brandName, SUM(ri.finalPrice) AS totalSpend FROM ReceiptItems ri JOIN Brand b ON ri.brandCode = b.brandCode GROUP BY b.name ORDER BY totalSpend DESC LIMIT 1;

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

WITH RecentUsers AS (SELECT _id FROM User WHERE createdDate >= Dateadd(Month, Datediff(Month, 0, DATEADD(m, -6, current_timestamp)), 0), ReceiptItems AS (SELECT r.userId, ri.brandCode FROM Receipt r JOIN RecentUsers u ON r.userId = u._id JOIN RewardsReceiptItemList ri ON r._id = ri.receiptId WHERE r.rewardsReceiptStatus IN ('Accepted', 'Rejected')) SELECT b.name AS brandName, COUNT(*) AS totalTransactions FROM ReceiptItems ri JOIN Brand b ON ri.brandCode = b.brandCode GROUP BY b.name ORDER BY totalTransactions DESC LIMIT 1;