SQL queries

1. **Which brand saw the most dollars spent in the month of June?**

```sql
SELECT BRAND_CODE, MAX(sumtotal) as maxbrand
from (SELECT BRAND_CODE, SUM(TOTAL_FINAL_PRICE) as sumtotal
            FROM ((SELECT ID
                        FROM receipts
                        WHERE PURCHASE_DATE
                        LIKE '%-06-%') as q natural join receipt_items)
            GROUP BY BRAND_CODE)as p
GROUP BY BRAND_CODE;
```

2. **Which user spent the most money in the month of August?**

```sql
FROM receipts
WHERE PURCHASE_DATE LIKE '%-08-%'
GROUP BY USER_ID
HAVING SUM(TOTAL_SPENT) =
(SELECT MAX(spent) FROM (SELECT SUM(TOTAL_SPENT) as spent
                        FROM receipts
                        WHERE Purchase_date
                        LIKE '%-08-%'
                        GROUP BY USER_ID) as subquery);
```

3. **What user bought the most expensive item?**

Assuming no null values in QUANTITY_PURCHASED

SELECT DISTINCT USER_ID, price

FROM receipts natural join

(SELECT BARCODE, BRAND_CODE, (TOTAL_FINAL_PRICE /

QUANTITY_PURCHASED) AS price

FROM receipt_items) as q

WHERE price = (SELECT MAX(TOTAL_FINAL_PRICE / QUANTITY_PURCHASED)

FROM receipt_items);

4. **What is the name of the most expensive item purchased?**

SELECT DISTINCT REWARDS_RECEIPT_ITEM_ID, DESCRIPTION

FROM receipt_items

WHERE (TOTAL_FINAL_PRICE / QUANTITY_PURCHASED) = (SELECT

MAX(TOTAL_FINAL_PRICE / QUANTITY_PURCHASED)

FROM receipt_items);

5. **How many users scanned in each month?**

After extracting month from the scanned date into PURCHASE_MONTH column in receipts table, the following should be run

```sql
SELECT PURCHASE_MONTH, COUNT(users.ID)
FROM users JOIN receipts ON users.ID = receipts.USER_ID
GROUP BY PURCHASE_MONTH;
```