

## SQL queries

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

```
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?

```
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

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