

## Fetch Rewards Coding Exercise - Data Analytics Internship

Please find below the queries that directly answers question(s) from a business stakeholder.

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

```
with brand_max(BRAND_CODE, value) as (select BRAND_CODE, sum(TOTAL_FINAL_PRICE)
from Receipt_items, Receipts where PURCHASE_DATE_Month = 'June' and ID =
REWARDS_RECEIPT_ID group by BRAND_CODE) select BRAND_CODE, max(value) from
brand_max;
```

- Which user spent the most money in the month of August?

```
with spend(USER_ID, value) as (select USER_ID, sum(TOTAL_FINAL_PRICE) from Receipts,
Receipt_items where PURCHASE_DATE_Month = 'August' and ID = REWARDS_RECEIPT_ID
group by USER_ID)
select USER_ID from spend where value in (select max(value) from spend);
```

- What user bought the most expensive item?

```
select USER_ID, max(TOTAL_FINAL_PRICE) from Receipts, Receipt_items where ID =
REWARDS_RECEIPT_ID;
```

- What is the name of the most expensive item purchased?

```
select DESCRIPTION from Receipt_items where TOTAL_FINAL_PRICE in (select
max(TOTAL_FINAL_PRICE) from Receipt_items);
```

- How many users scanned in each month?

```
select DATE_SCANNED_Month, count(distinct USER_ID) from Receipts, Receipts_Dates where
Receipts.ID = Receipts_Dates.ID group by DATE_SCANNED_Month;
```