

# A friend and I had a conversation that began about labeling transactions by type and ended with me offering to build them a dashboard... for fun!

## About the Data

The data comes from their bank statements from years 2021-2023. The data contains 1,124 rows of data concerning their purchases over the years.

## About the Process

Data was read in via Excel and cleaned in Power Query. The key housekeeping that had to be done included the following:

- Giving meaningful column names
- Building out logic using a extensive IF ELSE logic and the CONTAINS() function to create a Type column that indicates what type of transaction occurred. This information was obtained through requirements gathering and exploration of the data
- Creating new columns for ease of reporting (i.e., Text versions of the Date column for our Detailed Transactions table)
- Creating new columns filtered based on conditions, utilizing the CALCULATE() and FILTER() functions
- Calculating a running total that was not utilized in this dashboard

## About the Dashboard

- **The sidebar** contains slicer tiles used to filter for particular types of transactions and are dynamic at the dashboard level. Gray tiles indicate that type is not selected, black tiles indicate that type is selected.
- **The top menu** holds a date range filter since it was important for the dashboard user to be able to zoom in and out of the data, filtering from all time to as granular as daily. There are also 3 white boxes that hold KPIs requested by the user:
  - a. A conditional box holding a ratio of spending to earnings. Ratios less than 50% will show as green otherwise will show as red
  - b. A quick look at what was spent
  - c. A quick look at what was earned
- **The four main visuals** hold KPIs important to the user. They were most concerned with:
  1. **how spending was trending over time**
    - a. Used a line chart to visualize this metric over time. The user can get as granular as they please and better understand their spending habits over time
  2. **how much they were spending on their child's gaming over time**
    - a. Used a gauge to depict this number. The key was to understand how much was being spent on that particular item. In the future I may consider Month-Over-Month calculations opposed to this visual
  3. **which types of transactions were occurring the most over time**
    - a. The spending funnel seemed most effective for understanding different transaction buckets. The user can quickly see where their money is being spent the most
    - b. I also included a detailed transactions page that mimics their bank statements to allow for them to see exactly what is being visualized.

## Insights

The user was so pleased with this dashboard and excited at how simple it was to add new data as it comes in. We are in the process of utilizing Power Automate to streamline this process for them monthly. This was a fun, and insightful real-world problem I solved with the dashboard helping my friend to realize some key things:

1. They spent ALOT of money on wine and spirits during the pandemic..
2. They had an irregular spike in gaming around the end of May 2023. Their child spent over \$400 for digital dinosaurs that they were eventually refunded for
3. Their spending has decreased since 2021 but they are still spending more than they earn. Hopefully this dashboard will allow them to get back into the green zone more regularly
4. March of 2022 they had a boost in earnings which brought their spending to earning ratio into the green zone

# BANKING DASHBOARD

By Lauren Wilson, July 2023

Select all	GYM
AMAZON	LEARNING
APPLE	LIQUOR
BEAUTY	OTHER
BILLS	REFUND
CREDIT CARD	RIDES
DINING	ROBLOX
EARNINGS	SHOPPING
GROCERY	SUBSCRIPTION

11/25/2021  6/27/2023 



98.85%

Earnings Spent

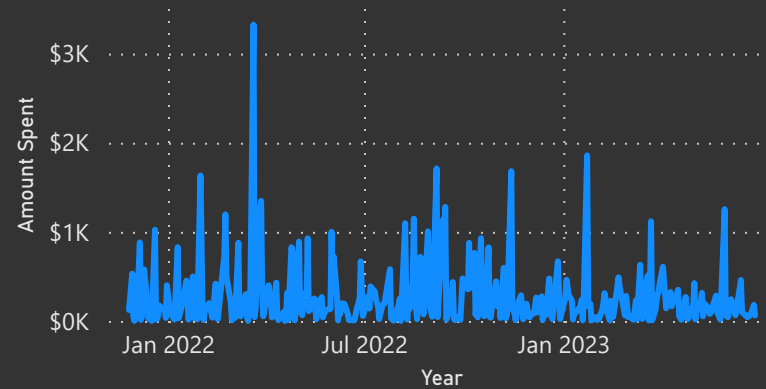
\$82,956.22

Spent

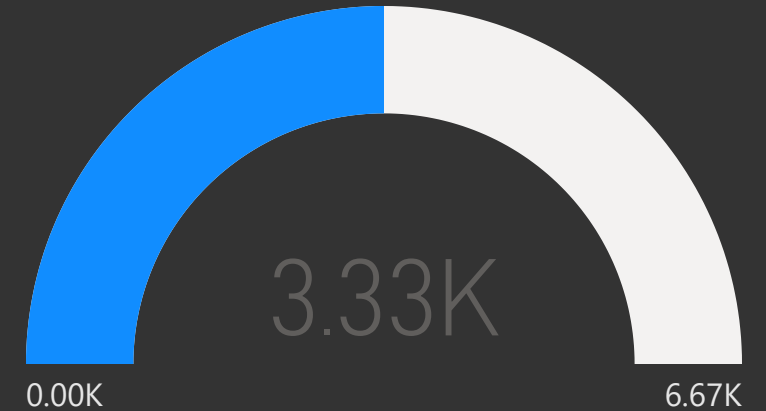
\$83,924.71

Earned

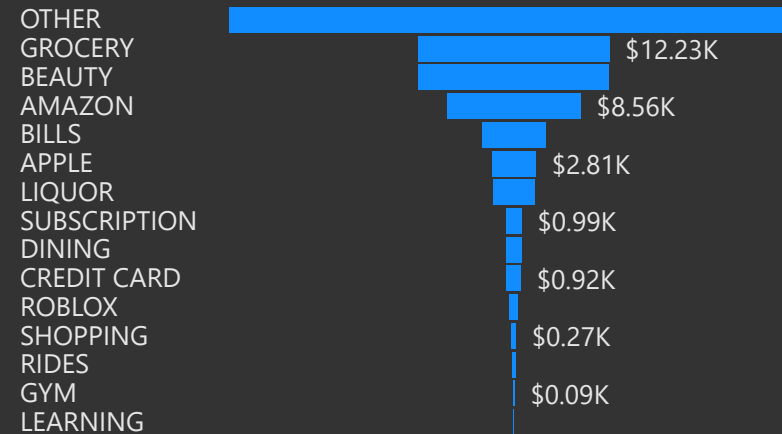
## Spending Trends Over Time starting 2021 to present



## Cost of ROBLOX & IOS Gaming



## Spending Funnel



## Detailed Transactions

Date	Description	Amount	Type
1/10/2022	AMZ*Zenni Optical, I 01/09 PURCHASE 800-211-2105 CA	(\$74.85)	AMAZON
1/10/2022	AMZN MKTP US*5Q3OB92W3 01/06 PURCHASE AMZN.COM/BILL WA	(\$114.12)	AMAZON
1/10/2023	Amazon Prime*376H805G3 01/09 PURCHASE	(\$16.23)	AMAZON
<b>Total</b>		<b>\$10,413.06</b>	