# 'Spending and Revenue' for the city of San Francisco

Group 18

Group Members: Jiaqi Ling, Haoning Liu, Nupur Neti, Haofu Wu

#### **Data Source Introduction**



- Maintained by The San Francisco Controller's Office
- >550K transactions with 22 columns
- New data added on a weekly basis, and available from fiscal year 2000 forward
- Clean and tidy

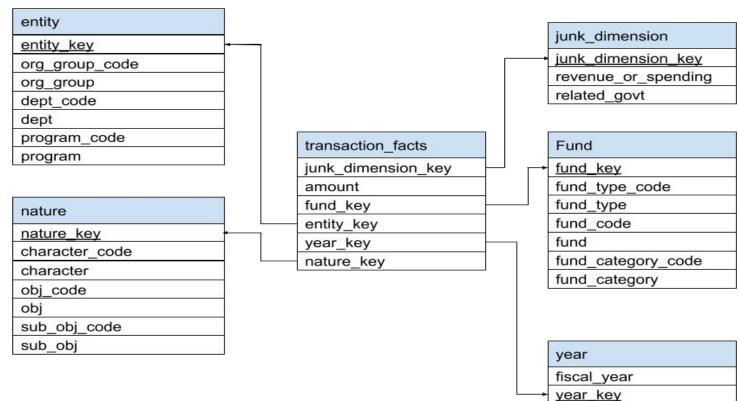


UNIX commands, csvkit, Python, Star-Schema design, SQL, matplotlib, Tableau



- Public accountability
- Government self-appraisal





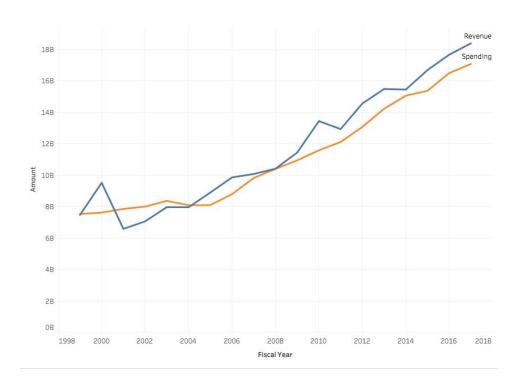
# **?** Concerned Questions

- How has spending and revenue varied across the years?
- Does the government keep a balance on budget and actual amount?
- What is most of the money being spent on?
- Which organization group spend the most amount of money?
- What was the distribution of spending across characters?
- Which funds are these amounts coming from?

# Revenue vs. Spending

 The government has kept a balance of spending and revenue each year while the total amount has increased.

 The overall revenue is higher than the overall spending, which is good for the continual operation.



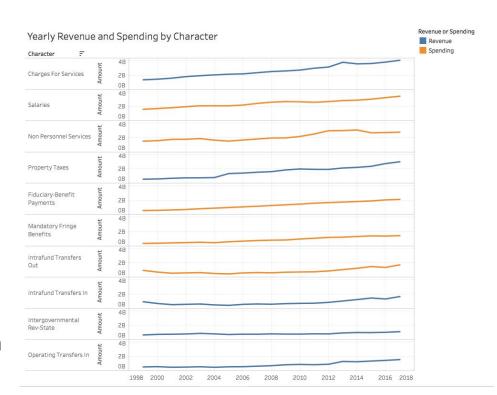
### **Dimension 1: Entity**

- Highest total spending and Highest total revenue: Public Works, Transportation & Commerce
- Overall the revenue and spending is in balance for most organization groups.
- Revenue of General City
   Responsibilities is always higher
   than its spending, while the
   spending of Public Protection is
   higher than its revenue over the
   years.
- Dip in total 2001 revenue can be attributed to General Administration & Finance.



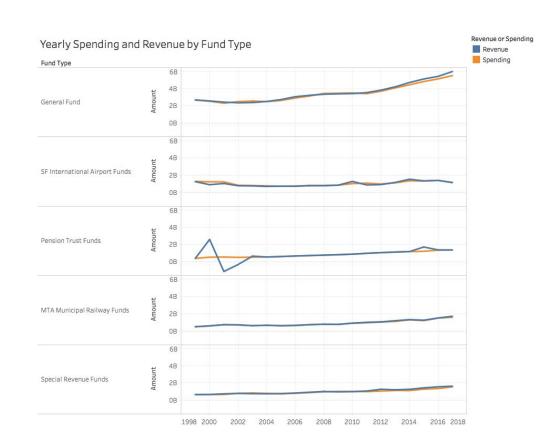
#### **Dimension 2: Nature**

- Highest total spending
  - Salaries
  - Non Personnel Services
  - Fiduciary-Benefit Payments
- Highest total revenue
  - Charges For Services
  - Property Taxes
  - Intrafund Transfers In
- Character is accounting term specially designed for revenue and spending, so there is not much comparison between them.



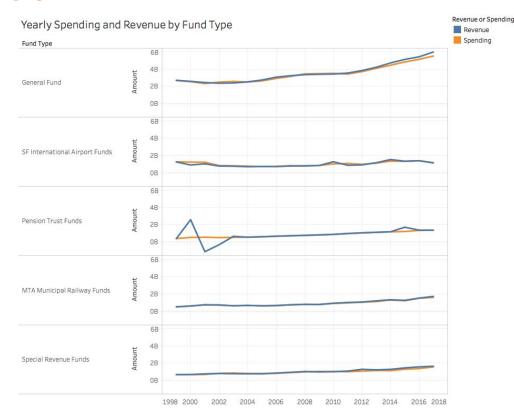
#### **Dimension 3: Fund**

- Highest total spending
  - General fund (large proportion)
  - SF International Airport Funds
  - Pension Trust Funds
- Highest total revenue
  - general fund
  - SF International Airport Funds
  - Pension Trust Funds



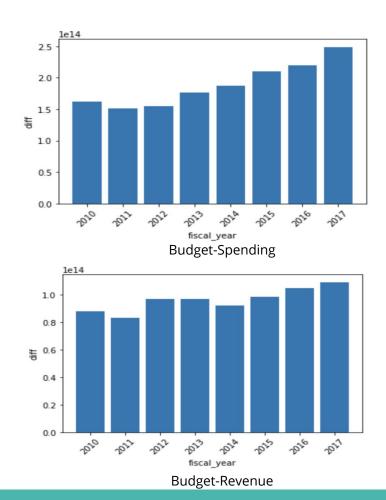
#### **Dimension 3: Fund Cont'd**

- We can again see a dip in 2001.
- We can also see that the dip in total 2001 revenue can be attributed to the dip in revenue from Pension Trust Funds.
- Matching this with the dip in organisation Group General Administration & Finance
   We can see that there could be some change in policy of Pensions Trust Funds within the General Administration & Finance organisation group



## If we incorporate budget...

- What if we compare annual spending and revenue with budget?
- Possible reasons for the huge gap: Accounting adjustment? Surplus carried over years? Or just the prosperity of San Francisco?
- Need further analysis with sufficient data.



## Thank you!