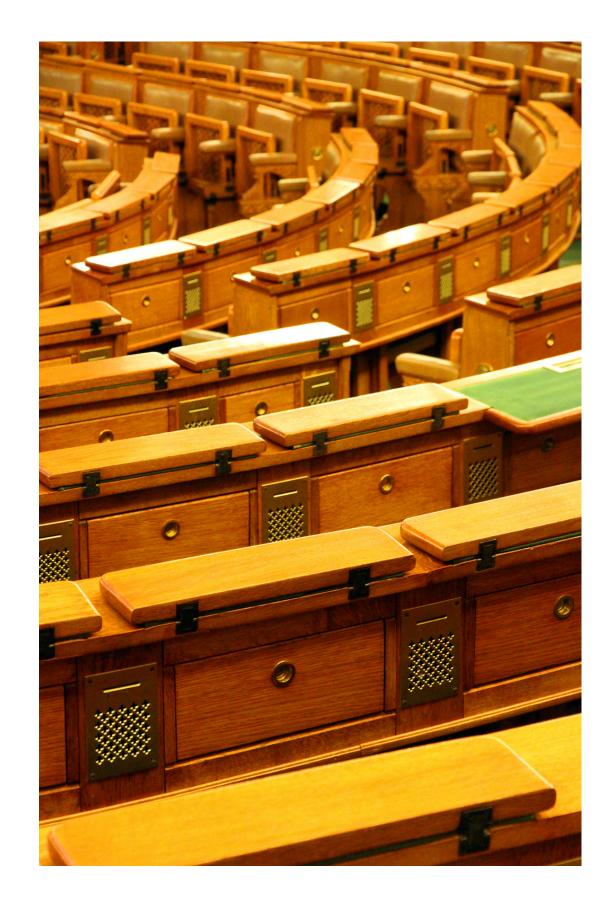
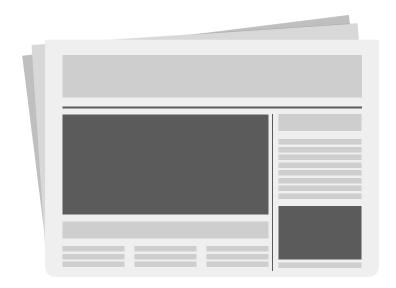




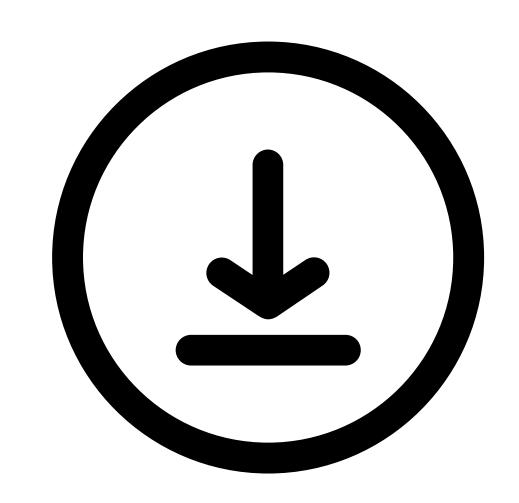
- You are a data analyst working for the government
- Today, the parliament has a hearing where they will discuss the budget of the next year
- You are asked to create a report based on the available data



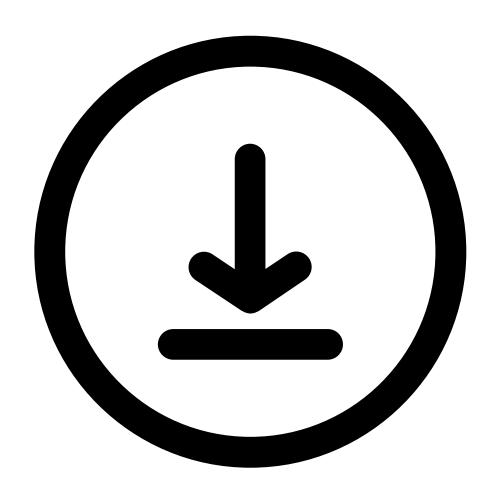


 Many news reports say that employees are working extra hours and some departments needs to increase their human resources

Download the data



OR



Manager guidelines

- Spending breakdown
 - Total Spending
 - Departments
- Highest paying departments
 - Highest paying divisions
- Departments distribution
- Overtime issue investigation
 - Assess the issue
 - Recommendations where to increase employees

- 1.Propose questions
 - Question1: ?
 - Question2: ?
 - Question3: ?

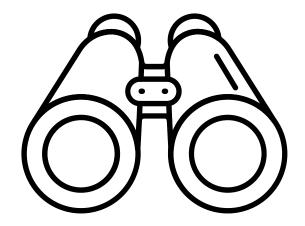


- 2.Data Assessing/Cleaning
 - a. Check columns names
 - i. Rename to convenient names
 - b. Check number of duplicates
 - i. Drop duplicates
 - c.Check number of Null values
 - i. Fill or drop the null values
 - ii. Can null values be derived from other columns?
 - d. Report the major dataset stats
 - i. Number of columns
 - ii. Number of rows
 - iii. Meta Info





- 3.Explore
 - 1. Univariate
 - a. Salary distribution/mean/median
 - b. Gender distribution
- 2. Multivariate/Bivariate
 - a. Department with salaries
 - b. Departments with overtime
- 3. Various plots
 - a. Pie chart
 - b. Bar chart



- 4.Draw conclusions
- Hint: remember the overtime issue



