

# **ANALYZING 2023 EMPLOYEE SALARIES IN MONTGOMERY COUNTY.**

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# **OUTLINE**

**❑ Data Collection and Preparation.**

**❑ Methodology:**

**Tools Utilized for Data Analysis in Project.**

**Data collection & Preparation.**

**Exploratory Data Analysis.**

**❑ Departmental & Comparative Analysis Dashboards.**

**❑ Reporting and Insights.**

**❑ Conclusion.**

# TOOLS UTILIZED FOR DATA ANALYSIS IN PROJECT

✓ **Google BigQueryCloud Sandbox for EDA**



✓ **MS Excel for EDA.**



✓ **IBM Cognos analytics for visualizations.**



# **METHODOLOGY,** **DATA COLLECTION AND PREPARATION**

- **Data source: Data.gov “<https://catalog.data.gov/dataset/employee-salaries-2023>”**
- **Cleaned and preprocessed the data for accuracy and consistency with SQL on Google Big Query sandbox platform.**
- **Performed descriptive statistics and visualized data on IBM Cognos analytics.**
- **Conducted Departmental Analysis of salaries by department, grade and identified patterns.**
- **Carried out Analysis and Reporting by comparing data and generating insights.**

## EmployeeSalariesByDeptDashboard

**\$929M**

AvrgBasePay

**\$90.3K**

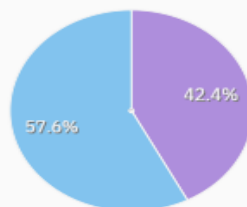
BasePay

Department

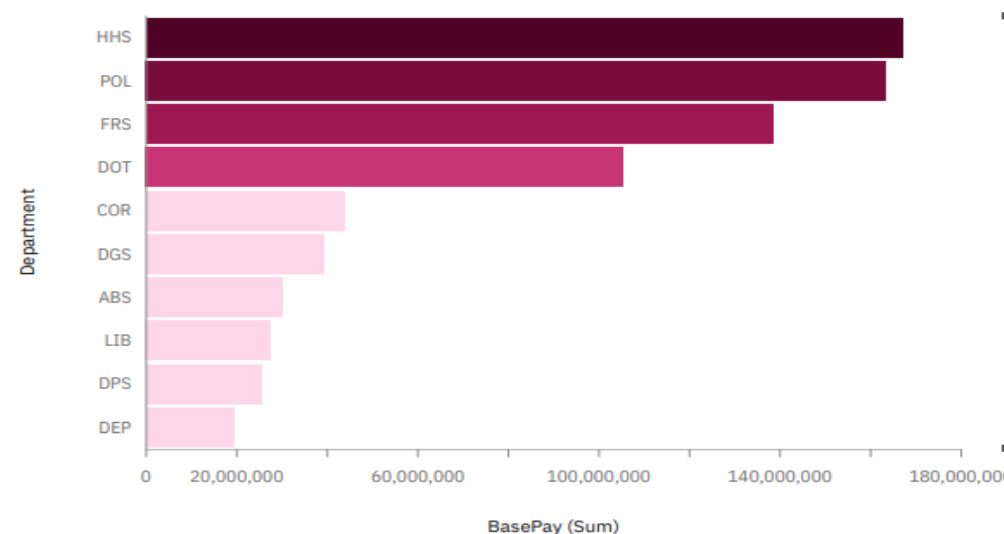


Gender

● F ● M



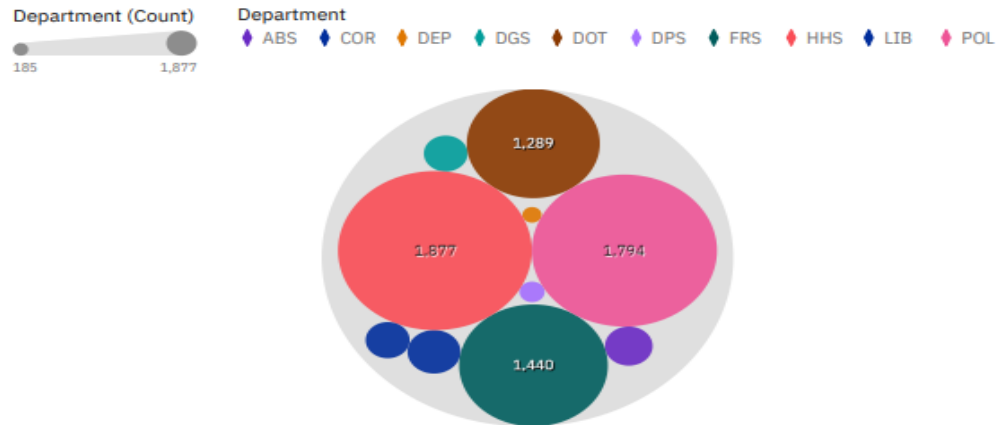
### BasePay by Department



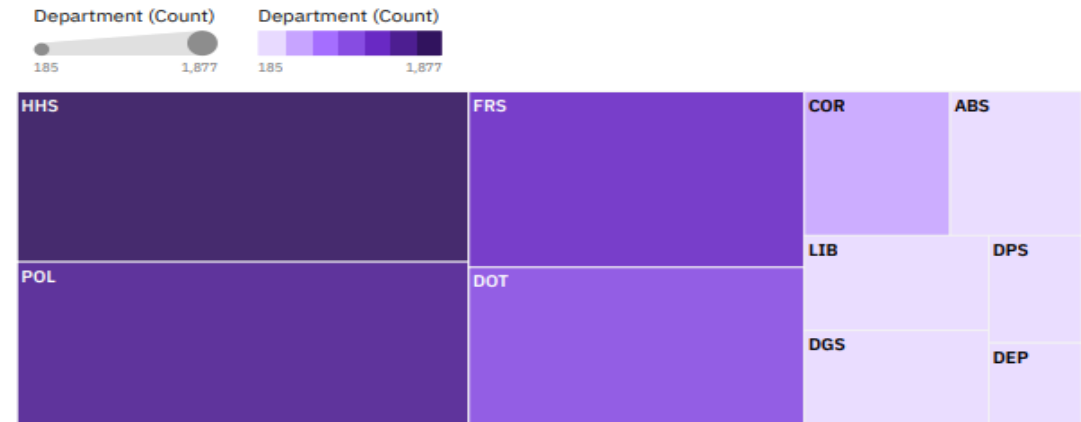
# DEPARTMENTAL & COMPARATIVE ANALYSIS DASHBOARD2

EmployeeSalariesDashboard2

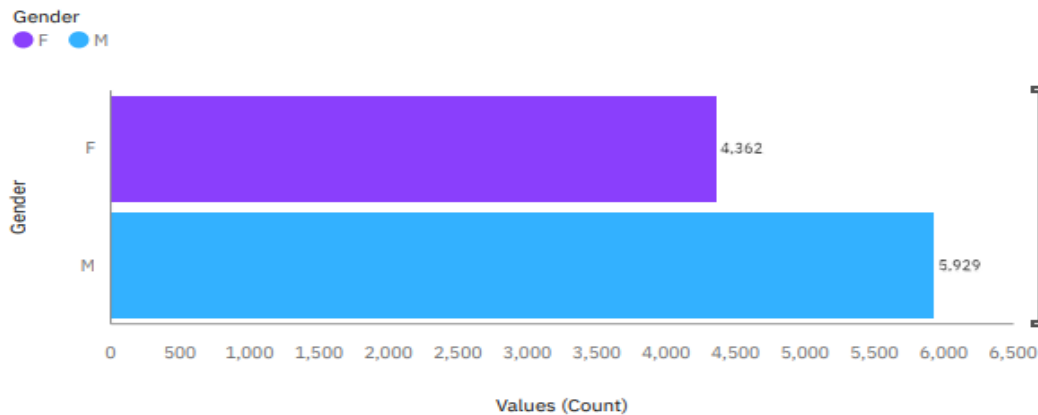
Top10DepartmentsBySalaryBubbleChart



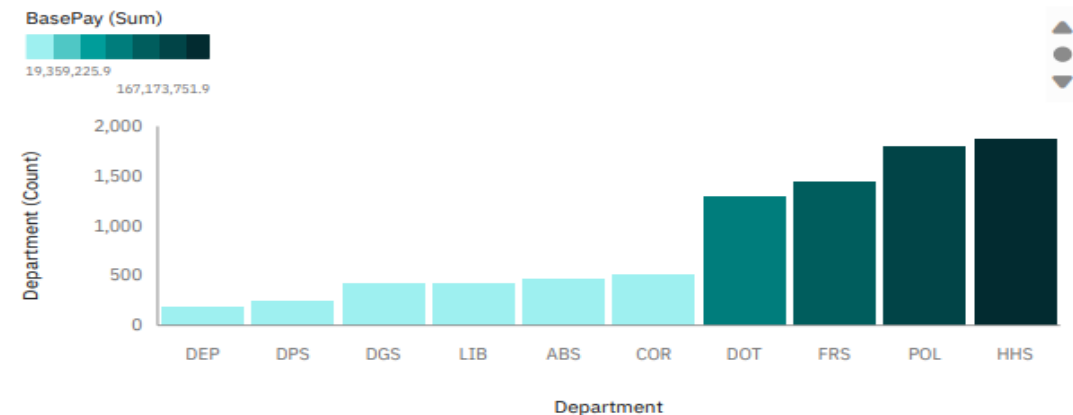
Top10DepartmentsHeatMap



EmplyeeSalariesByGender



10TopDepartments



# **REPORTING'S , INSIGHTS** **CONCLUSION**

## **Reports & Insights**

- ❖ **HHS and POL had the highest average salaries in 2023.**
- ❖ **DEP had the lowest average salary among the top 10 departments.**

## **Conclusion**

- ❖ **Variation across departments reflects differing priorities and responsibilities.**

**Thanks**