

Boston Police District Analysis

W200 - Storytelling with Data

Authors: Arun Surendranath, Samuel Omosuyi



Introduction

Goals

1. How is Boston city spending its budget?
2. What is Boston Police Department spending its budget?
3. Understand Boston crime data
4. Understand Boston shooting data
5. Narrow into a particular police district

Greater Boston area police double their base pay with overtime, detail work

Emma Plante, Reporter
March 15, 2021

In 2020, Capt. Richard McCusker of the Quincy Police Department made \$263,000. The other top nine earners on Quincy's payroll were members of the police force and all made more than \$225,000. Mayor Thomas Koch made \$160,000.

U.S. Attorneys » District of Massachusetts » News

Department of Justice

U.S. Attorney's Office

District of Massachusetts

SHARE 

FOR IMMEDIATE RELEASE

Friday, June 4, 2021

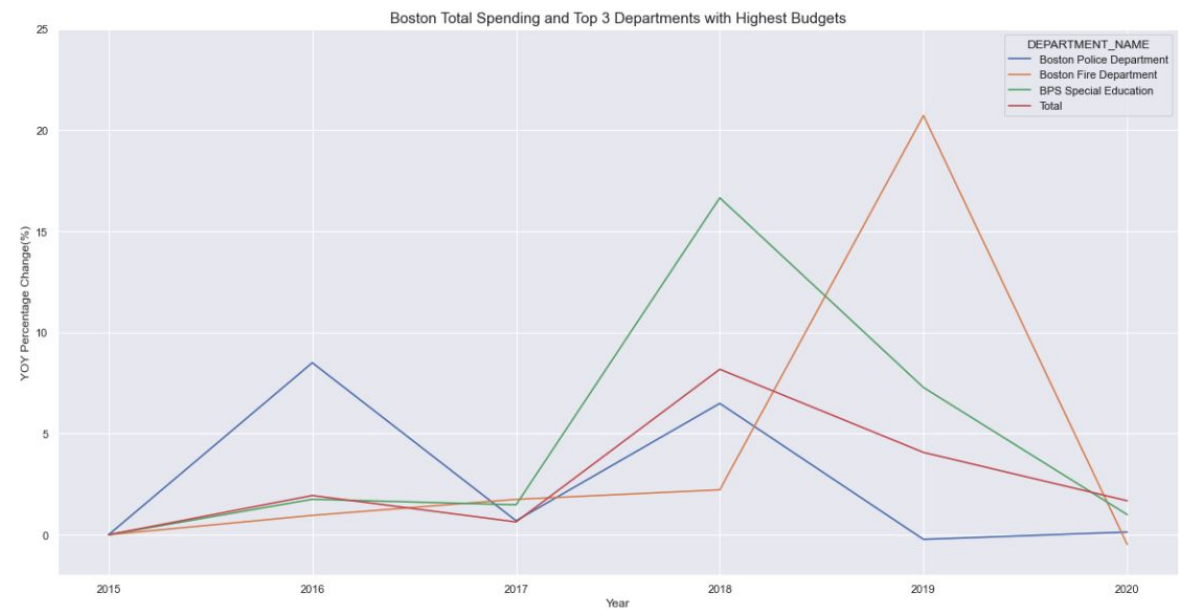
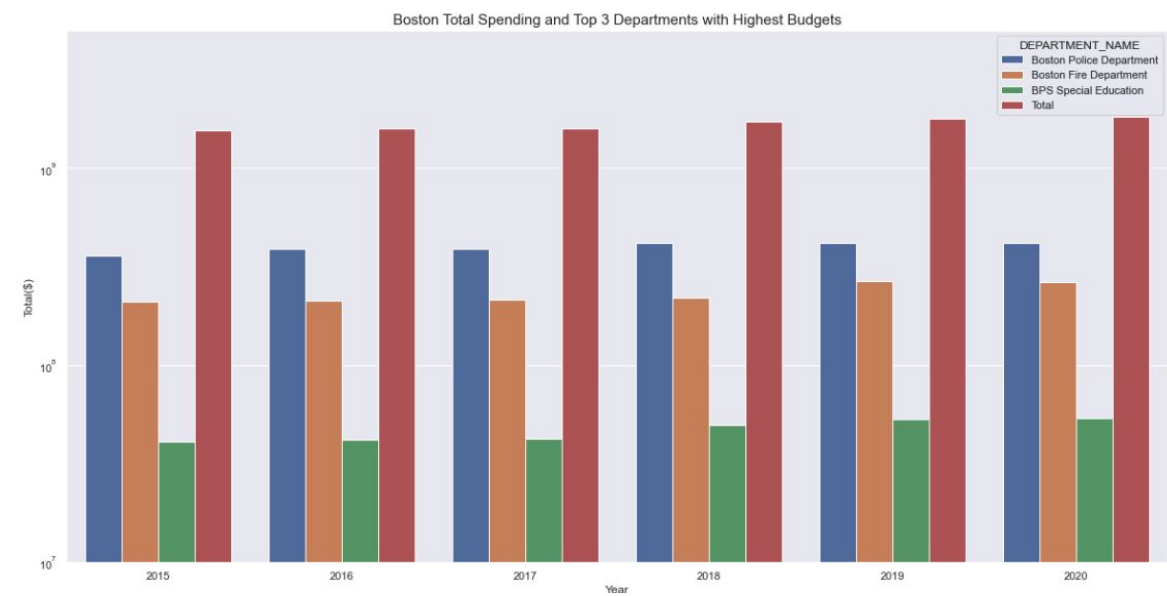
Former Boston Police Sergeant and Officer to Plead Guilty in Overtime Fraud Scheme

BOSTON – A former Boston Police Sergeant and a former officer have agreed to plead guilty in connection with an ongoing investigation of overtime fraud at the Boston Police Department's (BPD) evidence warehouse.

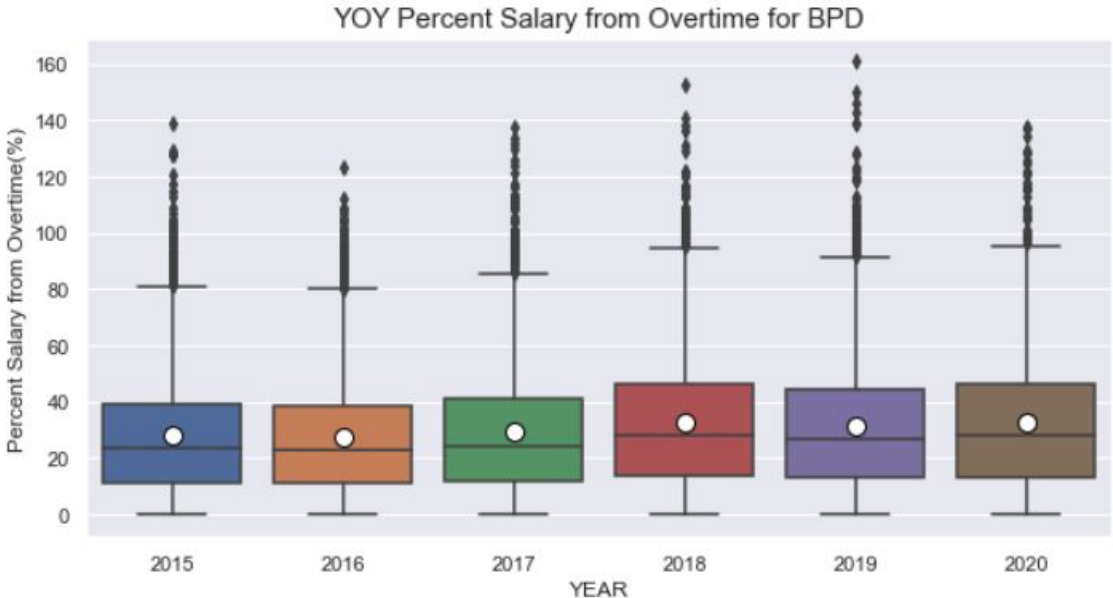
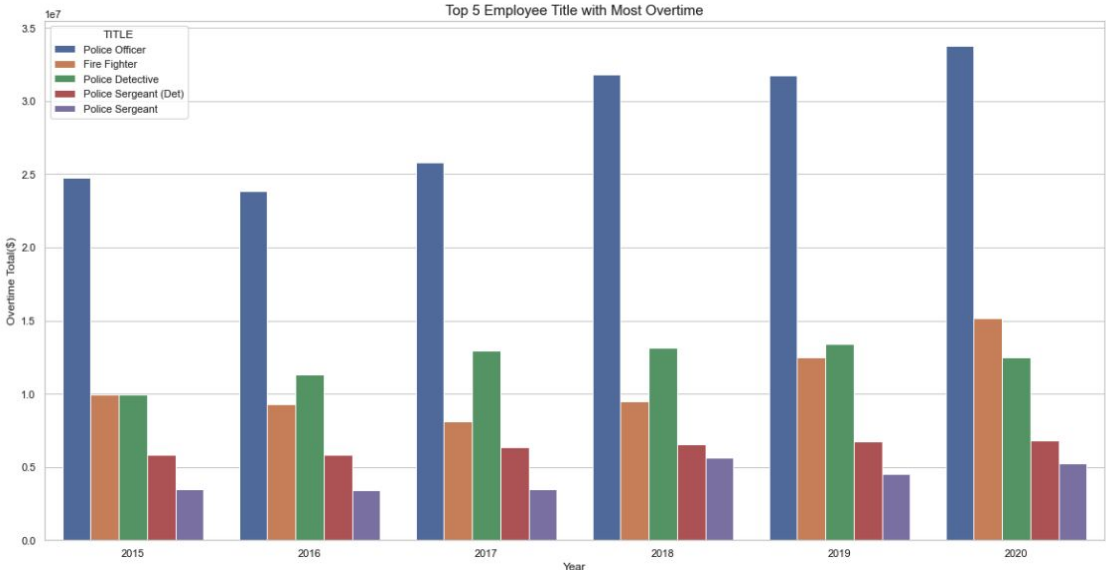
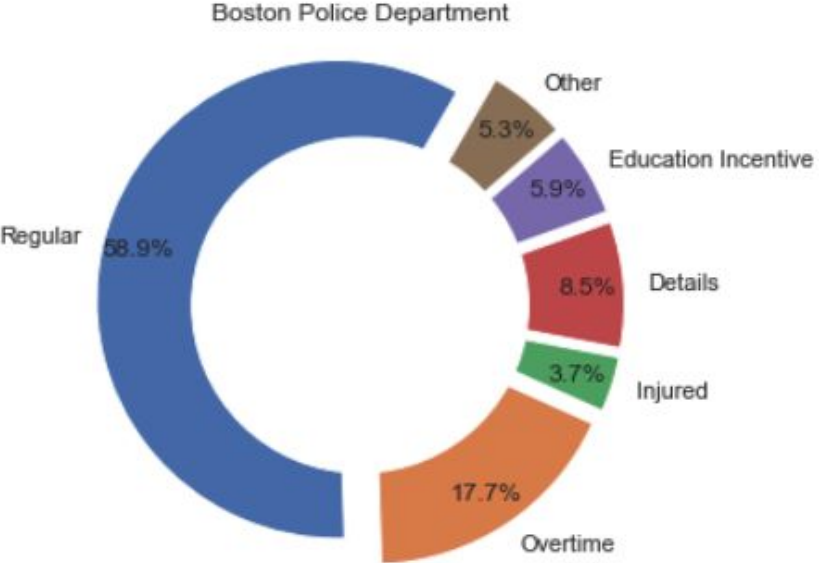
Approach



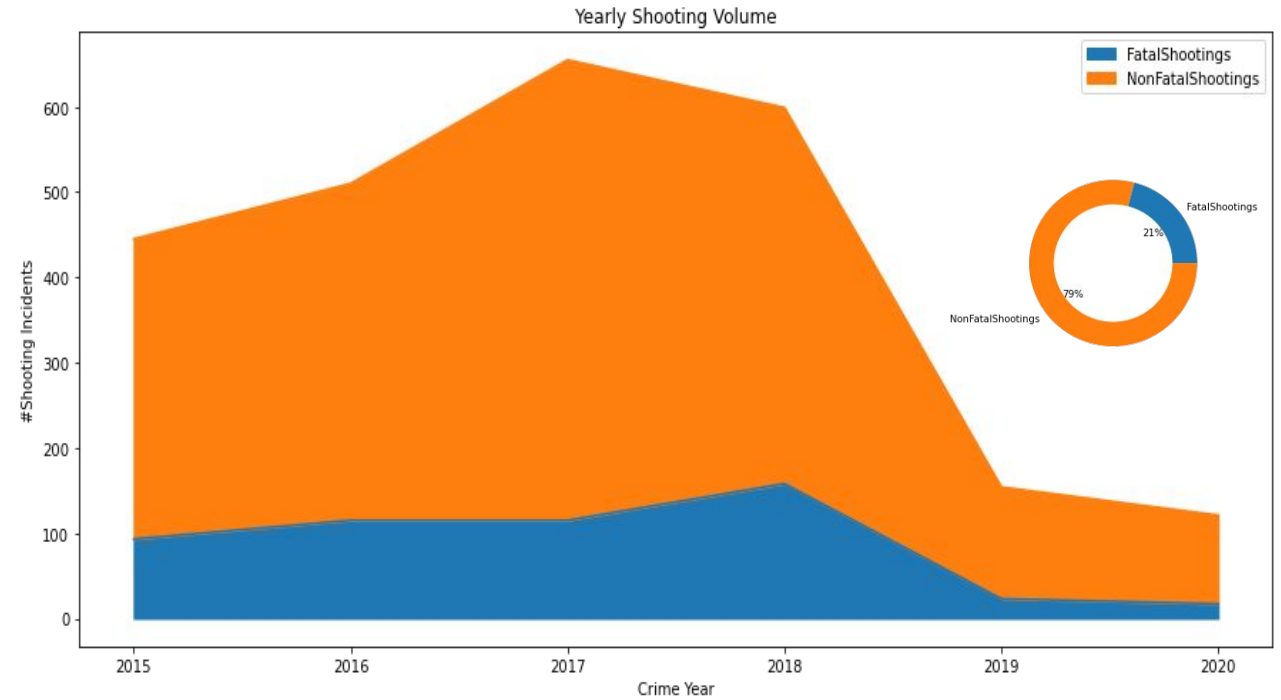
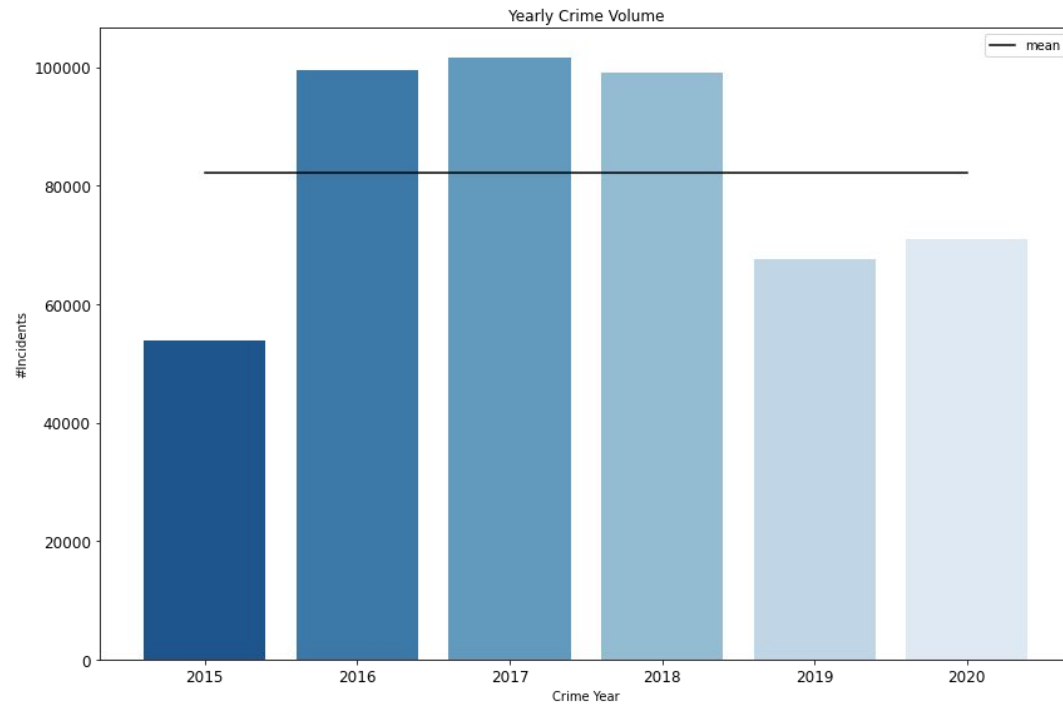
Understand Boston spending



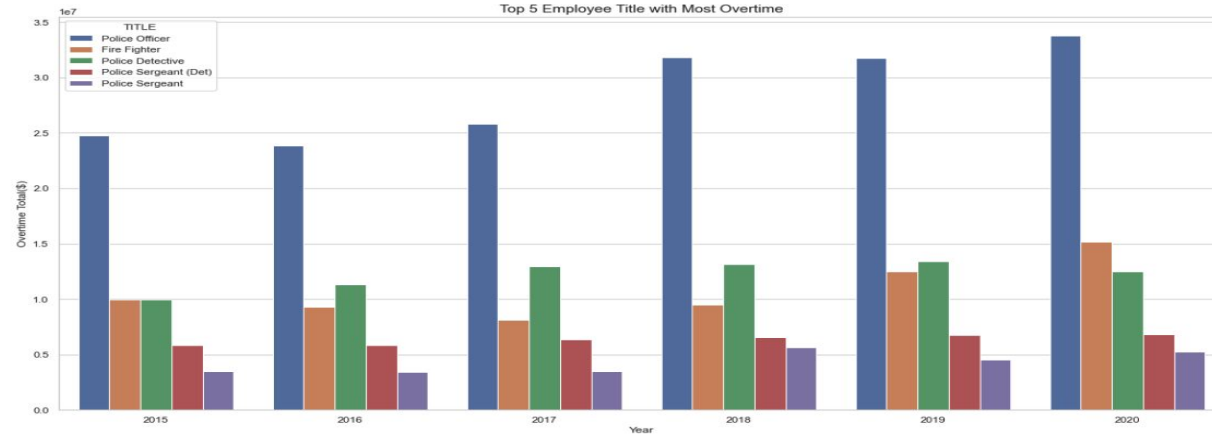
Understand Boston police department spending



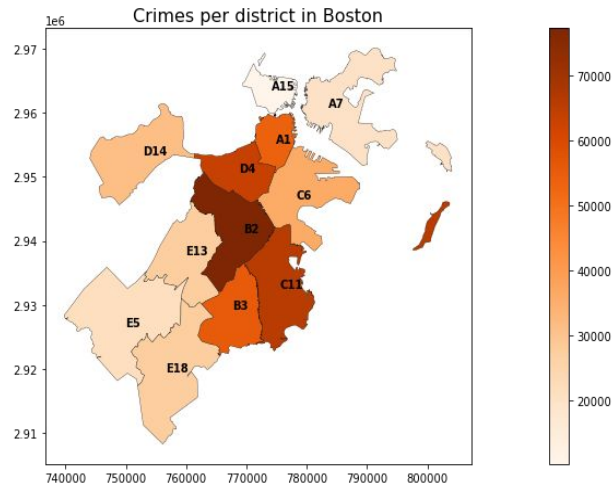
Understand Boston Incident Reported & Shooting data



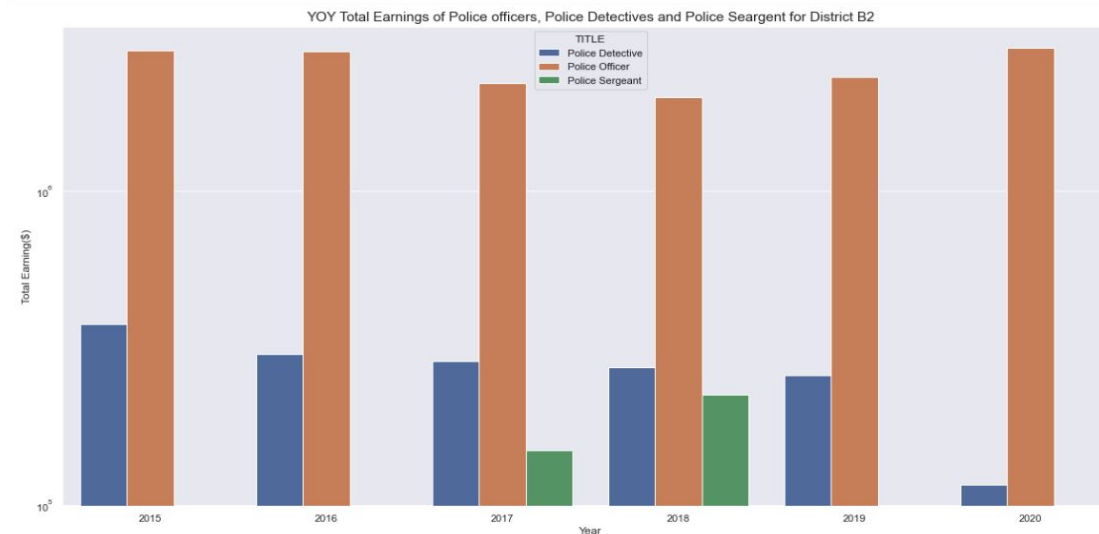
Understand What's Changing?



Narrow into a particular police district (B2)

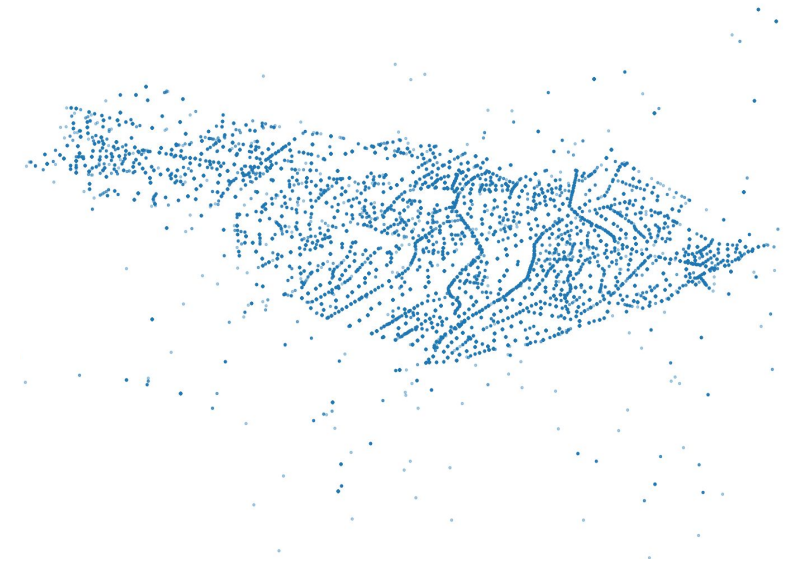
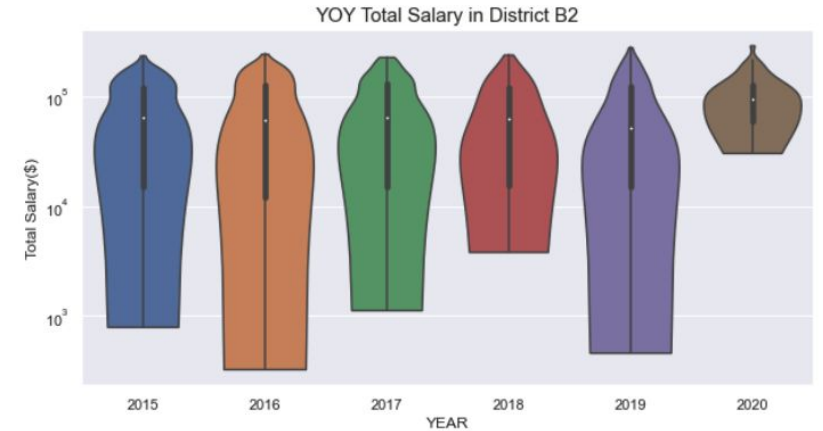


DISTRICT_NEW	2015	2016	2017	2018	2019	2020
A1	6,022	10,845	11,364	10,976	7,571	7,013
A15	1,027	1,990	2,196	2,034	1,427	1,601
A7	2,421	4,057	4,103	3,800	2,663	3,141
B2	8,859	15,911	16,021	15,760	10,338	10,447
B3	5,676	11,246	11,637	11,602	7,659	7,831
C11	7,356	13,822	13,763	12,987	8,708	8,992
C6	3,936	6,926	7,305	7,516	4,931	5,440
D14	3,279	6,277	6,541	6,173	4,417	4,758
D4	7,335	13,018	12,806	12,462	8,806	9,285
E13	2,826	5,614	5,490	5,486	3,837	4,105
E18	2,740	5,207	5,617	5,519	4,071	4,178
E5	2,185	4,202	4,160	4,095	2,895	3,596
External	0	0	0	0	3	246
Not Available	129	483	533	682	312	278



Conclusion

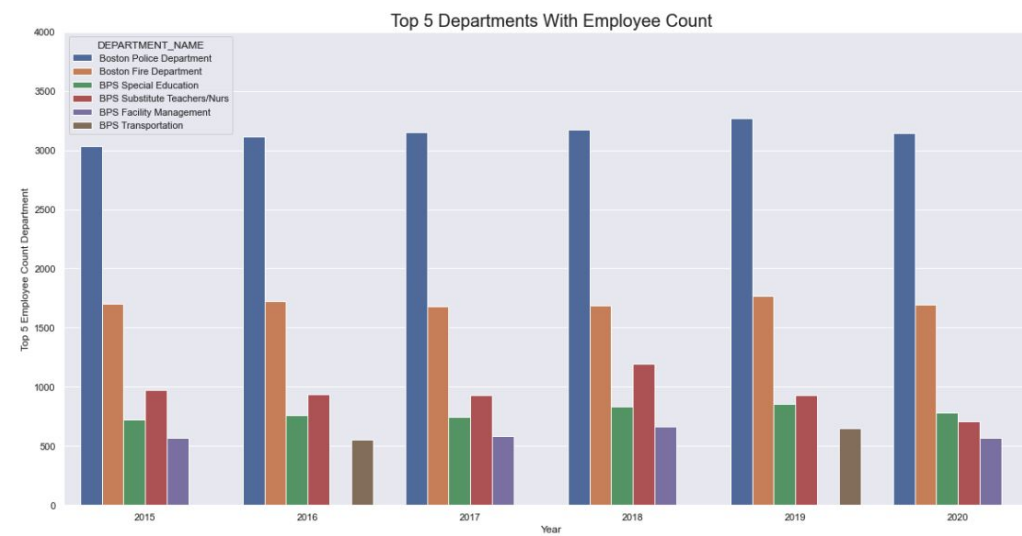
- Boston city spends over \$1.55 Billion each year on its various public departments 3 departments, Boston Police, Boston Fire and Boston Public school
- Boston Police and Boston Fire employees earnings from overtime is over 30%, in some cases as high as 150%
- The police officers employee growth rate (CAGR) was 1.6% between 2015 and 2020
- The police department overtime growth rate (CAGR) was 6.5% between 2015 and 2020
 - This was ~ 5x more than the employee count growth rate
- The crime incident volume growth rate (CAGR) was 4.6% between 2015 and 2020
- The 2018 Shift
 - 2.5% decrease in incidents reported with a 20% increase in overtime spending and relatively same number of police officers. What was the overtime for?
 - The deadliest shooting year with the highest ratio of fatal shootings



```
print('Thank you!')
```

*Thank
you*

Appendix



Appendix

