SQL and Databases:

Project Report

By: <Name and Batch>

Overview

No of Precinct	No of total crimes reported	No of areas	No of offenders
7	1000	11	1000

No of officers	Total population	No of CCTV	Count of cases where status is IC
54	62683	2405	909

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Metrics

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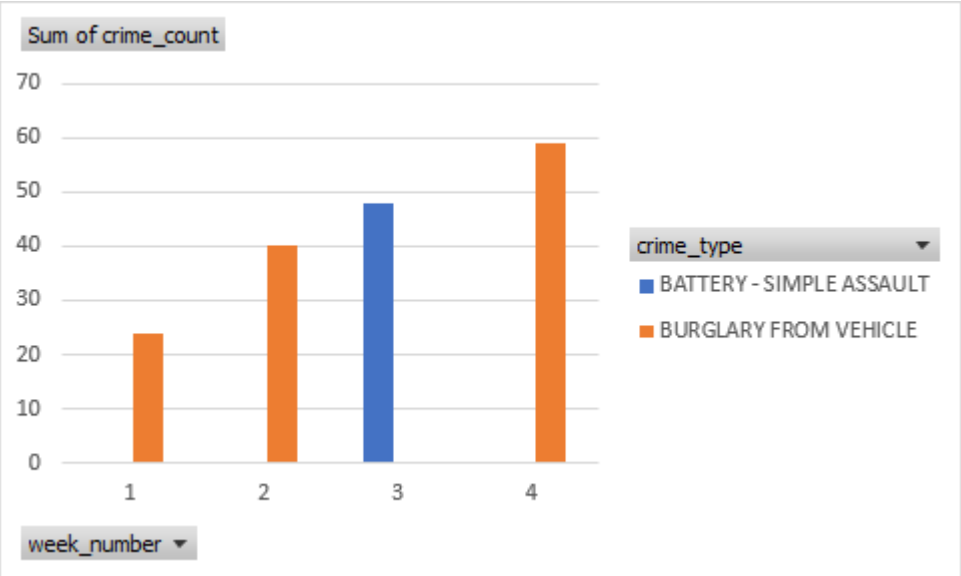
Distribution of most frequent crimes occurred on weekly basis



Observations / Findings

- "Vehicle burglary reports escalate weekly, nearly tripling by week 4."
- "A sudden spike in simple assault reports emerges in week 3."
- "No assaults reported in weeks 1, 2, or 4, highlighting a possible outlier event in week 3."

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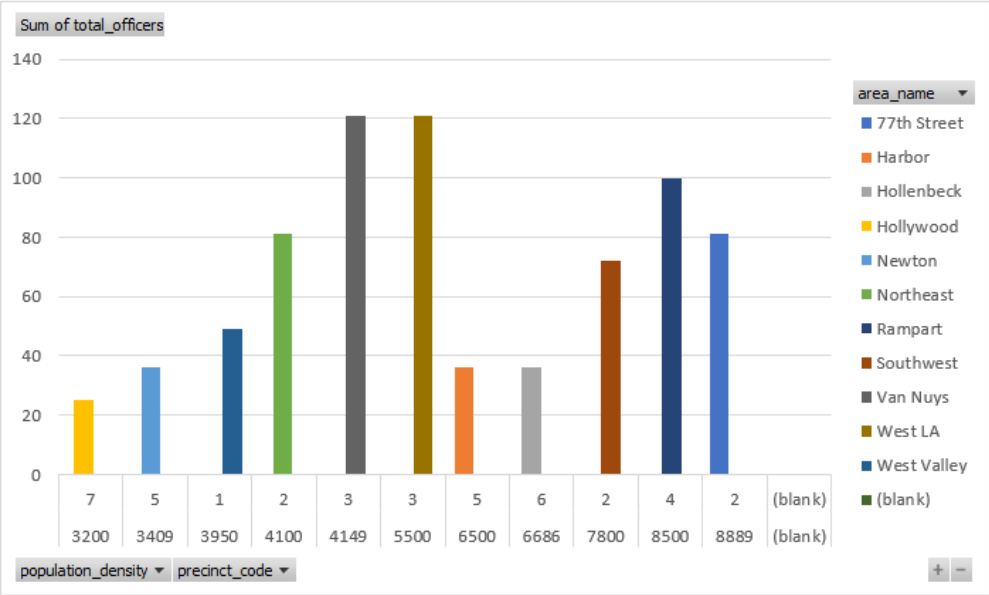
Chart to compare population density, precinct area, officer's count with crime rate



Observations / Findings

- "Rampart reports the highest number of cases, consistently high across multiple precincts."
- "Hollenbeck, with a moderate population density, shows a high case count, possibly indicating a crime hotspot."
- "West Valley, despite its lower population density, reports a notable number of cases, suggesting density isn't the only factor."

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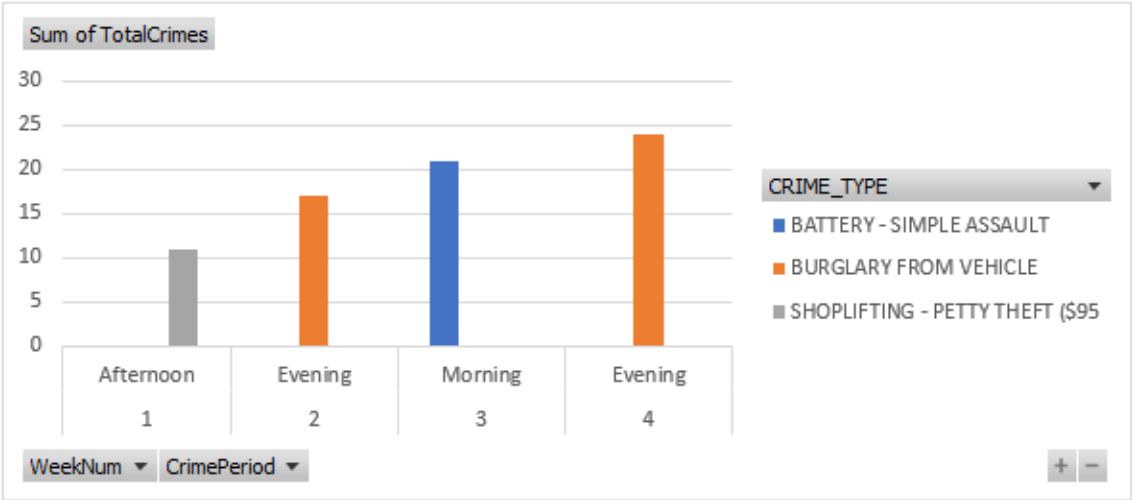
Distribution to see which crime types are most prevalent throughout the day



Observations / Findings

- "Burglary from vehicle is most frequent in the evening, with a rising trend."
- "Simple assault peaks in the morning, with the highest single-week count."
- "Afternoon shoplifting is the least frequent, yet still tops its week."

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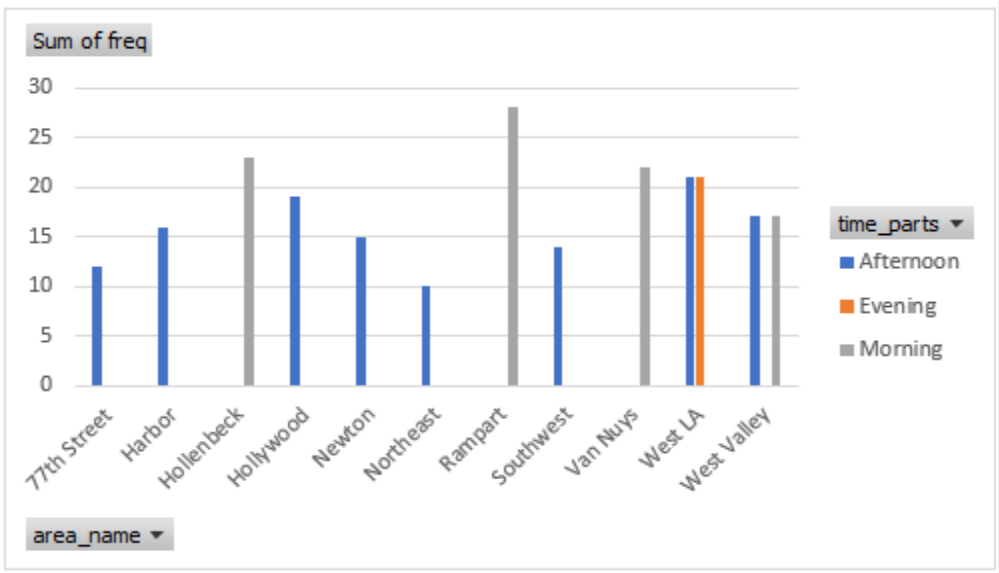
Distribution to see each area's maximum crimes reported across a day



Observations / Findings

- "Rampart has the highest frequency of incidents reported in the morning."
- "Afternoon times see consistent reporting across multiple areas, with Harbor and Hollywood being notably high."
- "West LA is unique with high incident reports both in the afternoon and evening."

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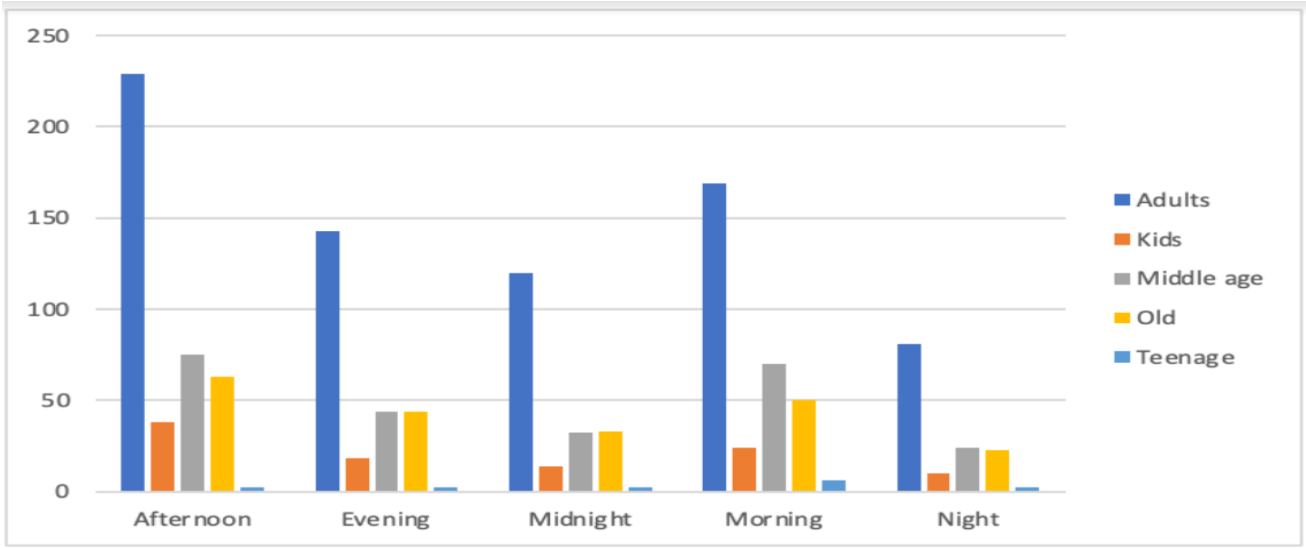
Distribution of the crime rate for victims of various ages over the course of a day



Observations / Findings

- "Most crimes involving adults occur in the afternoon."
- "The least number of adult crimes are reported at night."
- "Crime counts decrease significantly from afternoon to night."

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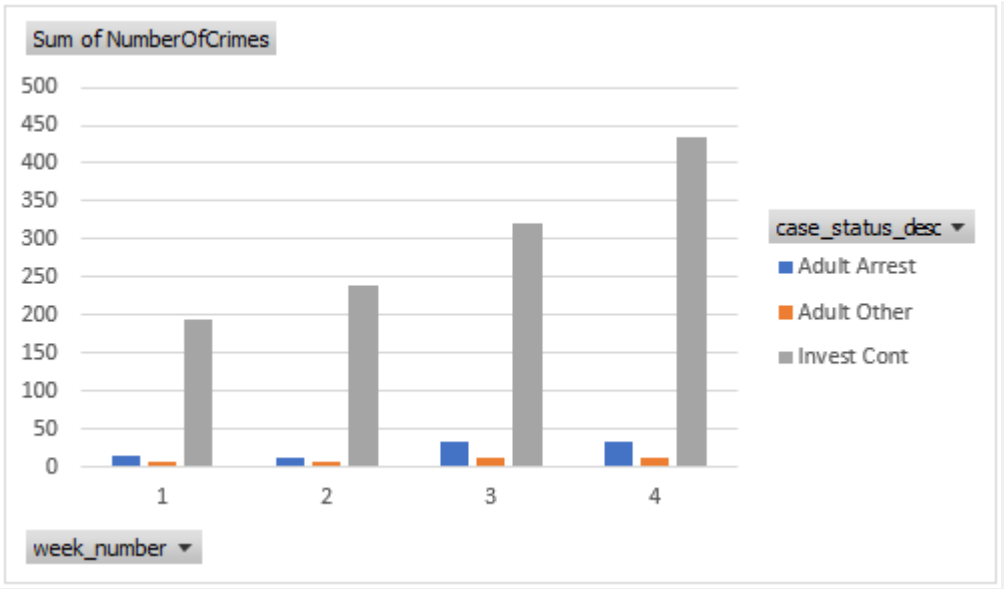
Distribution of the case status across a week



Observations / Findings

- "Investigations continued to increase each week, peaking in week 4."
- "Adult arrests remained relatively stable, with a notable rise in weeks 3 and 4."
- "Cases categorized as 'Adult Other' are the least frequent but showed consistency."

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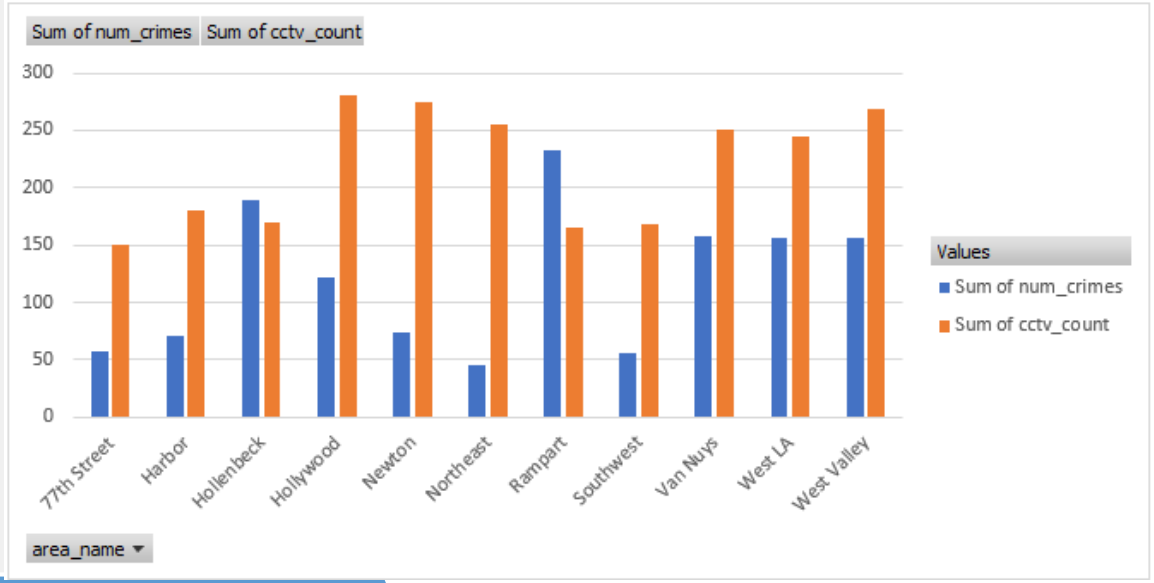
Distribution of area and CCTV count in relation to crime rate



Observations / Findings

- "Van Nuys and Hollywood have the highest crime rates per CCTV."
- "77th Street shows the lowest crime rate per CCTV installed."
- "The number of CCTVs does not necessarily correlate with lower crime rates."

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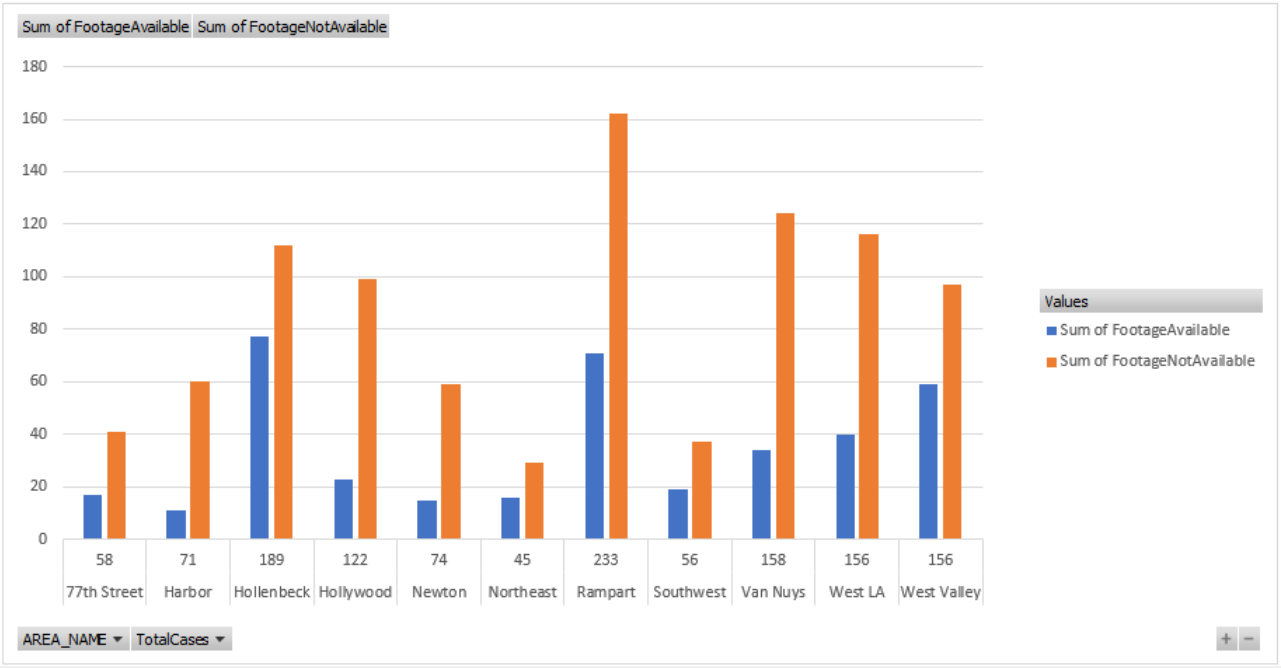
Distribution to see whether CCTV footage is available or not at the crime scene for each area



Observations / Findings

- "Hollenbeck has the highest percentage of available CCTV footage relative to total cases."
- "Van Nuys and Newton have low rates of available footage despite high CCTV counts."
- "Harbor has the least percentage of available footage, indicating possible issues with CCTV coverage or maintenance."

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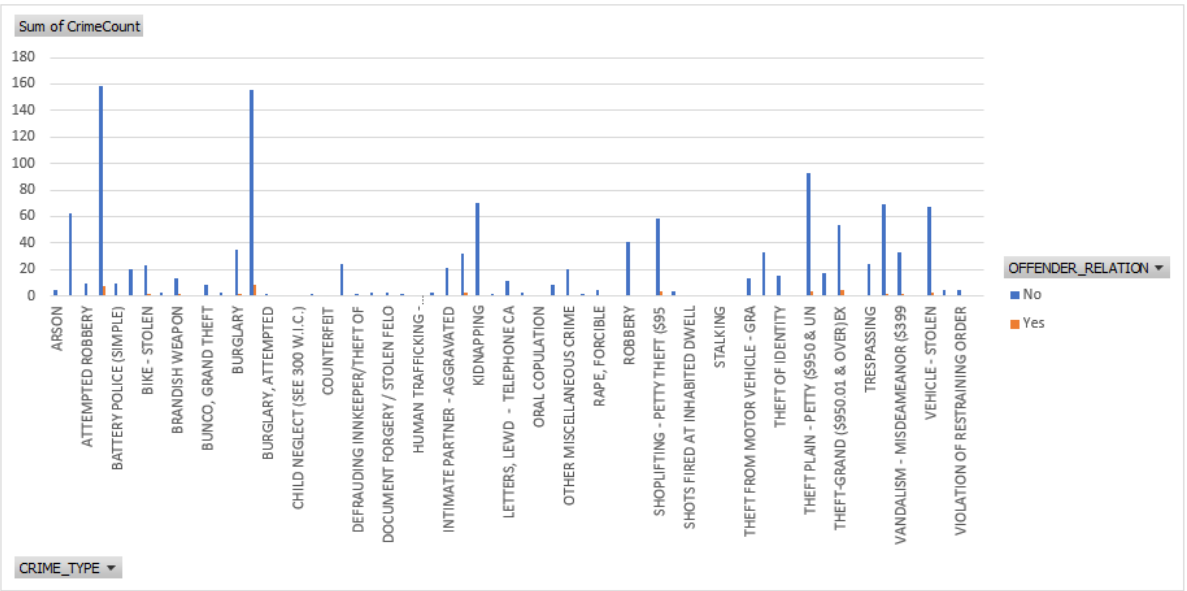
Crimes committed by relation of victim/strangers



Observations / Findings

- "Battery - Simple Assault is the most frequent crime reported, predominantly without an offender relationship."
- "Crimes reported with an offender relationship are significantly less frequent across all categories."
- "Burglary from a vehicle is common, with a notable amount occurring without an offender relationship."

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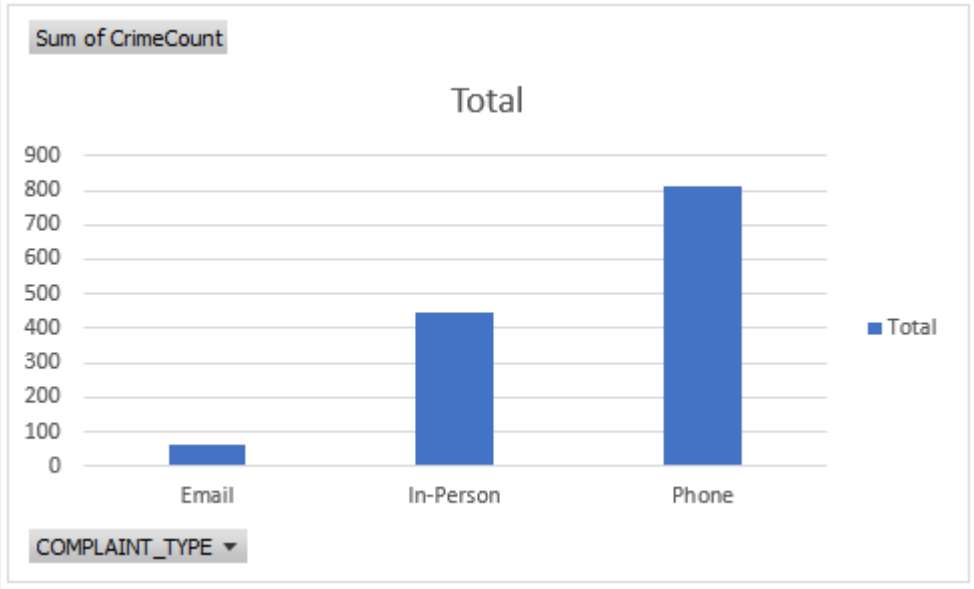
Distribution for the complaint type and the crime rate



Observations / Findings

- "Phone is the most utilized method for filing complaints."
- "In-person complaints are nearly half as common as those made by phone."
- "Email is the least used method for complaints, significantly lower than phone and in-person."

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Insights and Recommendations

- No clear correlation between CCTV presence and crime rates is evident from the data provided.
- Afternoon is the peak time for crimes: Increase police visibility during afternoon hours.
- Crimes involving adults are most frequent: Focus adult crime prevention programs on peak crime times.
- Most complaints are made via phone: Ensure adequate staffing and training for phone-based reporting services.
- Email is least used for complaints: Improve digital reporting options to encourage use.
- CCTV's impact on crime is unclear: Reassess and optimize CCTV deployment based on crime data analysis.
- Battery without offender relationship is common: Launch awareness campaigns on personal safety and conflict resolution.
- Investigations outnumber arrests: Streamline investigative processes to close cases faster.
- Crimes reported with offender relationships are severe: Offer specialized support for victims and targeted intervention programs.

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