Final Project Dimensional Model

CIS 9440-UWA Final Project Milestone 2 Group Number - 19

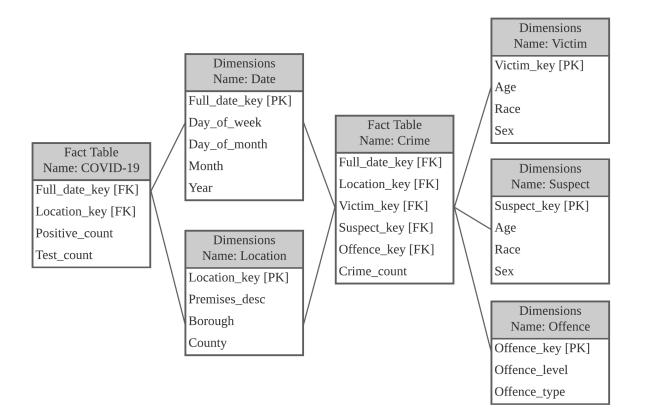
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(1) Kimball Bus Matrix

Business Processes (Facts)	Date	Location	Victim	Suspect	Offence
COVID-19	Х	Х			
Crime	Х	Х	Х	Х	Х

(2) Dimensional Model



(3) KPI's

The purpose of the project is to see how crime rate is impacted by COVID-19. The KPI's illustrate the possible correlations between the number of COVID-19 cases and crimes in New York City. It will give the users some insights with crime rates changes among different groups such as areas, crime types, time and etc. in the pre-pandemic vs. pandemic era.

- 1. Pre-pandemic crime rate vs Crime rate in pandemic era
- 2. Crime rate by borough
- 3. Hate crime rate by borough (Suspect and victim in different groups)
- COVID-19 cases rate by area
- 5. Victims rate grouped by ethnicity
- 6. Victims rate grouped by gender
- 7. Victims rate grouped by age
- 8. Proportion changes of the crimes among different crime types
- 9. Numbers of crime grouped by the day of the week
- 10. Numbers of crime grouped by month
- 11. Numbers of crime by premises
- 12. Total crime counts / Total COVID-19 cases by borough
- 13. Total crime counts / Total COVID-19 cases by month
- 14. Crimes committed against different minority groups / Total COVID-19 cases by month