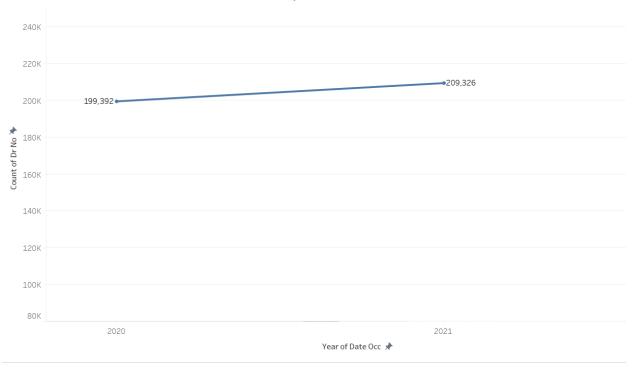
# Individual Project 1: LA Crime Data (Part 2)

## **Crime Rates Over Time:**

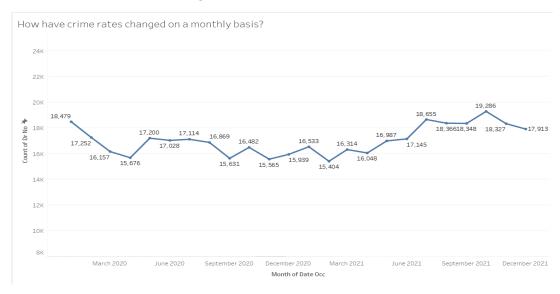
• What is the overall trend in crime rates over the years?

What is the overall trend in crime rates over the years?



The overall trend in crime rates has increased as shown above. The crime rate was approx. 199K. in 2020 which increased to 209K by 2021.

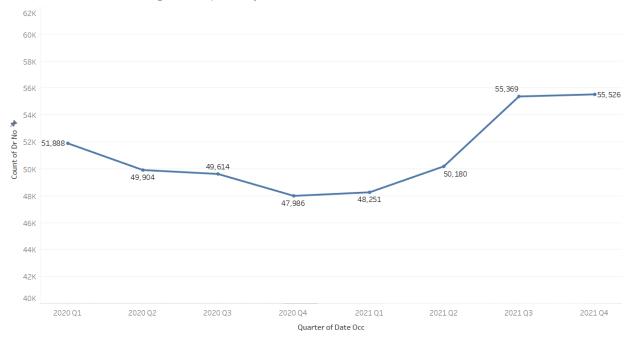
• How have crime rates changed on a monthly basis?



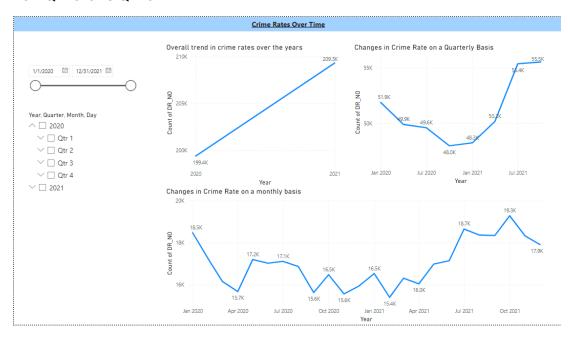
The monthly crime rates vary every month. There was a decrease in crime rates from January 2020 to March 2020, but an increase in crime rates till August 2020 and so on. We can see an almost continuous rise in crime in LA from February 2021 till December 2021.

• How have crime rates changed on a quarterly basis?





The crime rates dropped from Q1 2020 till Q4 2020 but there has been an increase in the crime rate from Q4 2020 TO Q4 2021.

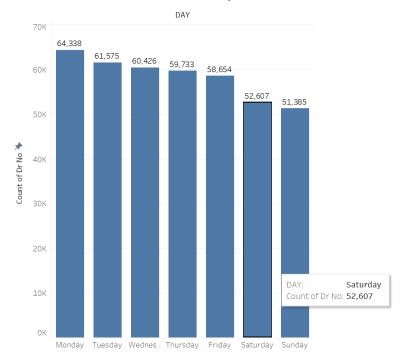


The overall trend in Crime Rate over time could be seen above.

#### **Day Time and Week Factors:**

• Is there a correlation between the day of the week and the number of reported crimes?

Is there a correlation between the day of the week and the number of reported crimes?



According to the dataset, we can see that the most crimes happen on Monday and it reduces through the week, Sunday being on the lowest end. Therefore, it can be said that there is a correlation between the day of the week and the number of crimes reported.

# • Do certain types of crimes tend to occur at specific times of the day?

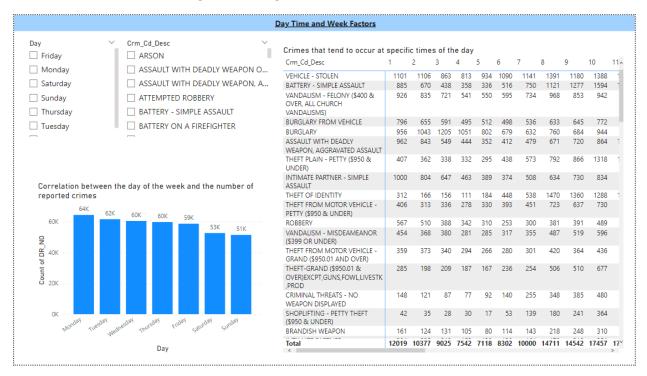
Do certain types of crimes tend to occur at specific times of the day?

Crm (d Desc         7         8         9         10         11         13         14         15         16         17         18         19           VEHICLE- STOLEN         1,141         1,391         1,188         1,229         1,437         1,650         1,991         2,244         2,942         3,405         3,15           BURGLARY         632         760         684         944         803         916         1,112         1,335         1,390         1,589         1,585         1,17           ASSAULT WITH DEADL         479         671         720         864         1,002         1,164         1,154         1,207         1,320         1,339         1,429         1,42         1,42           VANDALISM- FELONY         734         968         853         942         991         1,016         1,177         1,266         1,316         1,529         1,592         1,54           INTIMATE PARTNER         508         634         730         834         860         810         871         892         877         1,017         1,049         1,14           BATTERY - SIMPLE AS         750         1,121         1,277         767         808		TIME FIELD											
BURGLARY  632 760 684 944 803 916 1,112 1,335 1,390 1,589 1,585 1,17  ASSAULT WITH DEADL 479 671 720 864 1,002 1,164 1,154 1,207 1,320 1,339 1,429 1,42  VANDALISM - FELONY 734 968 853 942 991 1,016 1,177 1,266 1,316 1,529 1,592 1,54  INTIMATE PARTNER 508 634 730 834 860 810 871 892 877 1,017 1,049 1,14  BATTERY - SIMPLE AS 750 1,121 1,277 1,594 1,697 1,899 1,856 1,954 1,997 2,079 1,997 1,89  BURGLARY FROM VEH 536 633 645 772 767 808 905 1,075 1,339 1,759 2,078 2,00  ROBBERY  300 381 391 489 564 677 765 756 780 819 807 81  THEFT FROM MOTOR 301 420 364 436 408 392 525 619 619 752 911 78  VANDALISM - MISDEA 355 487 519 596 571 503 606 667 716 788 749 71  THEFT PLAIN - PETTY ( 573 792 866 1,318 1,420 1,611 1,592 1,550 1,402 1,308 1,216 98  INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29  THEFT - GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59  THEFT OF IDENTITY  TRESPASSING  185 255 274 324 306 267 291 285 261 253 227 236  BRANDISH WEAPON  143 218 248 310 341 332 359 393 417 380 363 39  CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 466  VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 33  RAPE, FORCIBLE  23 40 16 32 41 32 38 54 53 50 57 6  BURGLARY ASON  38 41 39 43 33 46 55 52 39 56 63 63 66	Crm Cd Desc	7	8	9	10	11	13	14	15	16	17	18	19
ASSAULT WITH DEADL 479 671 720 864 1,002 1,164 1,154 1,207 1,320 1,339 1,429 1,42 VANDALISM - FELONY 734 968 853 942 991 1,016 1,177 1,266 1,316 1,529 1,592 1,54 INTIMATE PARTNER 508 634 730 834 860 810 871 892 877 1,017 1,049 1,14 BATTERY - SIMPLE AS 750 1,121 1,277 1,594 1,697 1,899 1,856 1,954 1,997 2,079 1,997 1,899 BURGLARY FROM VEH 536 633 645 772 767 808 905 1,075 1,333 1,759 2,078 2,007 ROBBERY 300 381 391 489 564 677 765 756 780 819 807 81 HEFT FROM MOTOR 301 420 364 436 408 392 525 619 619 752 911 78: VANDALISM - MISDEA 355 487 519 596 571 503 606 667 716 788 749 71 THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1,319 1,385 1,20 INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29 THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 1 THEFT GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 1 THEFT GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 1 THEFT OF IDENTITY 538 1,470 1,380 1,288 1,158 1,154 1,078 1,044 896 839 662 51 TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 23 BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 39 6 62 51 TRESPASSING 185 255 348 385 480 496 491 507 494 528 502 496 466 VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 33 RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6 8 BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9 9 10 THER MISCELLANED 79 134 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9 10 THER MISCELLANED 79 134 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 147 142 179 168 136 BURGLARY, AT	VEHICLE - STOLEN	1,141	1,391	1,180	1,388	1,229	1,437	1,650	1,991	2,244	2,942	3,405	3,15
VANDALISM - FELONY 734 968 853 942 991 1,016 1,177 1,266 1,316 1,529 1,592 1,54 INTIMATE PARTNER 508 634 730 834 860 810 871 892 877 1,017 1,049 1,14 BATTERY - SIMPLE AS 750 1,121 1,277 1,594 1,697 1,899 1,856 1,954 1,997 2,079 1,997 1,89 BURGLARY FROM VEH 536 633 645 772 767 808 905 1,075 1,339 1,759 2,078 2,00 ROBBERY 300 381 391 489 564 677 765 756 780 819 807 81 HEFT FROM MOTOR 301 420 364 436 408 392 525 619 619 752 911 78 VANDALISM - MISDEA 355 487 519 596 571 503 606 667 716 788 749 71 THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1,319 1,385 1,20 INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29 THEFT GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 1 TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 23 BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 39 CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 466 VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 33 RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6 BURGLARY, ATTEMPT 50 134 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 136 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 50 136 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 136 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 148 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 140 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 148 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 149 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 149 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 149 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 149 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 149 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 149 148 129 125 138 155 147 142 179 168 136 BURGLARY, ATTEMPT 50 149 148 129 125 138 155 147 142 179 168 136 BURGLARY ATTEMPT 50 149 148 129 125 138 155 147 142	BURGLARY							1,112	1,335	1,390	1,589	1,585	1,17
INTIMATE PARTNER	ASSAULT WITH DEADL	479	671				1,164	1,154	1,207	1,320	1,339	1,429	1,42
BATTERY - SIMPLE AS 750 1,121 1,277 1,594 1,697 1,899 1,856 1,954 1,997 2,079 1,997 1,899 BURGLARY FROM VEH 536 633 645 772 767 808 905 1,075 1,339 1,759 2,078 2,000 ROBBERY 300 381 391 489 564 677 765 756 780 819 807 81 THEFT FROM MOTOR 301 420 364 436 408 392 525 619 619 752 911 78 VANDALISM - MISDEA 355 487 519 596 571 503 606 667 716 788 749 71 THEFT PLAIN - PETTY ( 573 792 866 1,318 1,420 1,611 1,592 1,550 1,402 1,308 1,216 98 THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1,319 1,385 1,20 INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29 THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 THEFT OF IDENTITY 538 1,470 1,360 1,288 1,158 1,154 1,078 1,044 896 839 662 51 TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 231 BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 39 CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 466 VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 331 RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6 BURGLARY, ATTEMPT 57 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 155 147 147 142 179 168 136 BURGLARY, ATTEMPT 79	VANDALISM - FELONY							1,177	1,266	1,316	1,529	1,592	1,54
BURGLARY FROM VEH 536 633 645 772 767 808 905 1,075 1,339 1,759 2,078 2,00 ROBBERY 300 381 391 489 564 677 765 756 780 819 807 81- THEFT FROM MOTOR 301 420 364 436 408 392 525 619 619 752 911 78 VANDALISM-MISDEA 355 487 519 596 571 503 606 667 716 788 749 71 THEFT PLAIN - PETTY ( 573 792 866 1,318 1,420 1,611 1,592 1,550 1,402 1,308 1,216 98 THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1,319 1,385 1,20 INTIMATE PARTINER 164 170 218 251 241 180 206 212 236 267 256 29 THEFT OF IDENTITY 538 1,470 1,360 1,288 1,158 1,154 1,078 1,044 896 839 662 51 TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 236 BRANDISH WEAPON 143 218 228 310 341 332 359 393 417 380 363 39 CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 466 VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 33 RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6 BURGLARY, ATTEMPT 57 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168 136 BURGLARY, ATTEMPT 79 134 148 129 125 138 152 147 142 179 168	INTIMATE PARTNER		634		834	860						1,049	1,14
ROBBERY  300 381 391 489 564 677 765 756 780 819 807 81 THEFT FROM MOTOR 301 420 364 436 408 392 525 619 619 752 911 78 VANDALISM - MISDEA 355 487 519 596 571 503 606 667 716 788 749 71 THEFT PLAIN - PETITY ( 573 792 866 1.318 1.420 1.611 1.592 1.550 1.402 1.308 1.216 98 THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1.319 1.385 1.20 INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29 THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 THEFT OF IDENTITY  538 1.470 1.360 1.288 1.158 1.154 1.078 1.044 896 839 662 51 TRESPASSING  185 255 274 324 306 267 291 285 261 253 227 23 BRANDISH WEAPON  143 218 248 310 341 332 359 393 417 380 363 393 CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 466 VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 33 RAPE, FORCIBLE  BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9 OTHER MISCELLANED 79 134 148 129 125 138 152 147 142 179 168 13 BIKE - STOLEN  97 125 162 166 193 185 215 234 239 291 283 23 ARSON  38 41 39 43 33 46 55 52 39 56 63	BATTERY - SIMPLE AS		1,121	1,277	1,594	1,697	1,899	1,856	1,954	1,997	2,079	1,997	1,89
THEFT FROM MOTOR 301 420 364 436 408 392 525 619 619 752 911 78. VANDALISM - MISDEA 355 487 519 596 571 503 606 667 716 788 749 71. THEFT PLAIN - PETTY ( 573 792 866 1,318 1,420 1,611 1,592 1,550 1,402 1,308 1,216 98. THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1,319 1,385 1,20 INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29. THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59. THEFT OF IDENTITY 538 1,470 1,360 1,288 1,158 1,154 1,078 1,044 896 839 662 51. TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 23. BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 39. CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 46. VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 33. RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6. BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9. OTHER MISCELLANEO 79 134 148 129 125 138 152 147 142 179 168 13. BIKE - STOLEN 97 125 162 166 193 185 215 234 239 291 283 23. ARSON 38 41 39 43 33 46 55 52 39 56 63 6	BURGLARY FROM VEH			645					1,075	1,339	1,759	2,078	2,00
VANDALISM - MISDEA 355 487 519 596 571 503 606 667 716 788 749 71 THEFT PLAIN - PETTY ( 573 792 866 1,318 1,420 1,611 1,592 1,550 1,402 1,308 1,216 98   THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1,319 1,385 1,20   INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29   THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59   THEFT OF IDENTITY 538 1,470 1,360 1,288 1,158 1,154 1,078 1,044 896 839 662 51   TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 23   BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 39   CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 46   VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 33   RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6   BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9   OTHER MISCELLANEO 79 134 148 129 125 138 152 147 142 179 168 136   BIKE - STOLEN 97 125 162 166 193 185 215 234 239 291 283 23   ARSON 38 41 39 43 33 46 55 52 39 56 63 6	ROBBERY												81
THEFT PLAIN - PETTY ( 573 792 866 1,318 1,420 1,611 1,592 1,550 1,402 1,308 1,216 98 THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1,319 1,385 1,20 INTIMATE PARTINER 164 170 218 251 241 180 206 212 236 267 256 29 THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 THEFT OF IDENTITY 538 1,470 1,360 1,288 1,158 1,154 1,078 1,044 896 839 662 51 TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 23 BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 39 CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 460 VIOLATION OF RESTR. 171 201 228 254 275 295 281 296 295 325 292 33 RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6 BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9 OTHER MISCELLANDO. 79 134 148 129 125 138 152 147 142 179 168 136 BIKE - STOLEN 97 125 162 166 193 185 215 234 239 291 283 236 ARSON 38 41 39 43 33 46 55 52 39 56 63 66	THEFT FROM MOTOR			364						619			78
THEFT FROM MOTOR 451 723 637 730 561 630 741 950 934 1,319 1,385 1,20 INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29 THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 THEFT-GRAND (\$950 100 1 1,0	VANDALISM - MISDEA					571							713
INTIMATE PARTNER 164 170 218 251 241 180 206 212 236 267 256 29 THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 THEFT OF IDENTITY 538 1,470 1,360 1,288 1,158 1,154 1,078 1,044 896 839 662 51 TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 23 BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 39 CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 466 VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 330 RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6 BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9 OTHER MISCELLANEO 79 134 148 129 125 138 152 147 142 179 168 13 BIKE - STOLEN 97 125 162 166 193 185 215 234 239 291 283 236 ARSON 38 41 39 43 33 46 55 52 39 56 63 6	THEFT PLAIN - PETTY (				1,318	1,420	1,611	1,592	1,550	1,402	1,308	1,216	98
THEFT-GRAND (\$950 254 506 510 677 688 765 816 921 778 686 599 59 THEFT OF IDENTITY 538 1,470 1,360 1,288 1,158 1,154 1,078 1,044 896 839 662 51 TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 23 BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 395 CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 466 VIOLATION OF RESTR 171 201 228 254 275 295 281 296 295 325 292 33 RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6 BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9 OTHER MISCELLANEO 79 134 148 129 125 138 152 147 142 179 168 135 BIKE - STOLEN 97 125 162 166 193 185 215 234 239 291 283 236 ARSON 38 41 39 43 33 46 55 52 39 56 63 6	THEFT FROM MOTOR										1,319	1,385	1,20
THEFT OF IDENTITY  538  1,470  1,360  1,288  1,158  1,154  1,078  1,044  896  839  662  51  TRESPASSING  185  255  274  324  306  267  291  285  261  253  227  230  BRANDISH WEAPON  143  218  248  310  341  332  359  393  417  380  363  393  CRIMINAL THREATS  255  348  385  480  496  491  507  494  528  502  496  466  VIOLATION OF RESTR  171  201  228  254  275  295  281  296  295  325  292  33  RAPE, FORCIBLE  23  40  16  32  41  32  38  54  53  50  57  68  BURGLARY, ATTEMPT  52  48  44  45  52  50  62  94  59  97  88  9  OTHER MISCELLANEO  79  134  148  129  125  138  152  147  142  179  168  138  BIKE - STOLEN  97  125  162  166  193  185  215  234  239  291  283  236  ARSON  38  41  39  43  33  46  55  52  39  56  63	INTIMATE PARTNER	164	170	218		241			212	236	267		29
TRESPASSING 185 255 274 324 306 267 291 285 261 253 227 238   BRANDISH WEAPON 143 218 248 310 341 332 359 393 417 380 363 398   CRIMINAL THREATS 255 348 385 480 496 491 507 494 528 502 496 468   VIOLATION OF RESTR. 171 201 228 254 275 295 281 296 295 325 292 338   RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 68   BURGLARY, ATTEMPT. 52 48 44 45 52 50 62 94 59 97 88 9   OTHER MISCELLANEO. 79 134 148 129 125 138 152 147 142 179 168 138   BIKE - STOLEN 97 125 162 166 193 185 215 234 239 291 283 236   ARSON 38 41 39 43 33 46 55 52 39 56 63 66	THEFT-GRAND (\$950	254	506										59:
BRANDISH WEAPON  143  218  248  310  341  332  359  393  417  380  363  393  CRIMINAL THREATS	THEFT OF IDENTITY	538	1,470	1,360	1,288	1,158	1,154	1,078	1,044				51
CRIMINAL THREATS         255         348         385         480         496         491         507         494         528         502         496         466           VIOLATION OF RESTR         171         201         228         254         275         295         281         296         295         325         292         33           RAPE, FORCIBLE         23         40         16         32         41         32         38         54         53         50         57         6           BURGLARY, ATTEMPT         52         48         44         45         52         50         62         94         59         97         88         9           OTHER MISCELLANEO         79         134         148         129         125         138         152         147         142         179         168         13           BIKE - STOLEN         97         125         162         166         193         185         215         234         239         291         283         236           ARSON         38         41         39         43         33         46         55         52         39         56	TRESPASSING			274	324								230
VIOLATION OF RESTR         171         201         228         254         275         295         281         296         295         325         292         33           RAPE, FORCIBLE         23         40         16         32         41         32         38         54         53         50         57         66           BURGLARY, ATTEMPT         52         48         44         45         52         50         62         94         59         97         88         9           OTHER MISCELLANEO         79         134         148         129         125         138         152         147         142         179         168         13           BIKE - STOLEN         97         125         162         166         193         185         215         234         239         291         283         23           ARSON         38         41         39         43         33         46         55         52         39         56         63         6	BRANDISH WEAPON	143	218	248	310	341				417			39
RAPE, FORCIBLE 23 40 16 32 41 32 38 54 53 50 57 6 BURGLARY, ATTEMPT 52 48 44 45 52 50 62 94 59 97 88 9 OTHER MISCELLANEO 79 134 148 129 125 138 152 147 142 179 168 13 BIKE - STOLEN 97 125 162 166 193 185 215 234 239 291 283 236 ARSON 38 41 39 43 33 46 55 52 39 56 63 66	CRIMINAL THREATS		348						494				468
BURGLARY, ATTEMPT         52         48         44         45         52         50         62         94         59         97         88         9           OTHER MISCELLANEO         79         134         148         129         125         138         152         147         142         179         168         13           BIKE - STOLEN         97         125         162         166         193         185         215         234         239         291         283         23           ARSON         38         41         39         43         33         46         55         52         39         56         63         6	VIOLATION OF RESTR	171			254	275			296				330
OTHER MISCELLANEO     79     134     148     129     125     138     152     147     142     179     168     138       BIKE - STOLEN     97     125     162     166     193     185     215     234     239     291     283     23       ARSON     38     41     39     43     33     46     55     52     39     56     63     6	RAPE, FORCIBLE												6
BIKE - STOLEN 97 125 162 166 193 185 215 234 239 291 283 234 ARSON 38 41 39 43 33 46 55 52 39 56 63 6	BURGLARY, ATTEMPT			44					94				9
ARSON 38 41 39 43 33 46 55 52 39 56 63 6	OTHER MISCELLANEO		134	148	129	125	138		147	142	179		138
	BIKE - STOLEN		125					215	234	239			236
DISCHADGE FIDEADM 12 16 16 21 29 26 41 34 44 42 57 S	ARSON												6
	DISCHADGE EIDEADM	12	16	16	21	29	36	/11	3/1	11	12	57	Q.

From the above visualization, we can see that Crime – 'Vehicle Stolen' occurs the max at 6:00 PM in the evening and it follows a similar pattern of the said crime happening during the evening times the most.

We can also observe that The crime – 'Battery – Simple Assult' also takes place from the afternoon to maximum of the times during the evening.

Crime Rates are the least during the morning times.

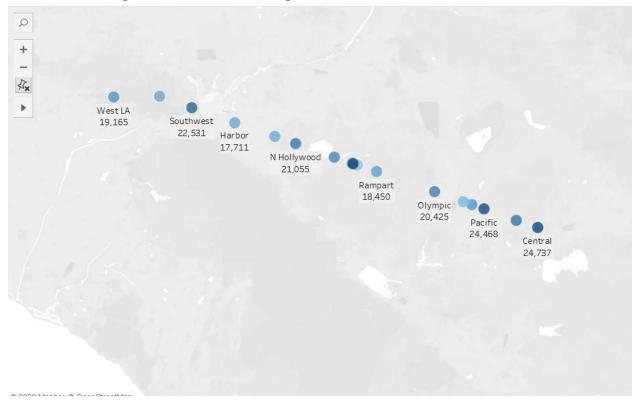


Overall visualization for Day, Time and Week Factors.

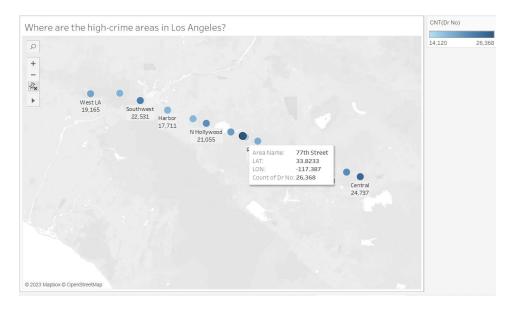
## **Crime by Location:**

- Where are the high-crime areas in Los Angeles?
- We want to know (your inferences on):
  - o By seeing the geo map, what are the crime hotspots?
  - o Can you identify areas where Los Angeles performs better or worse in terms of crime rates?

Where are the high-crime areas in Los Angeles?



The areas where the crime is higher in LA is represented by dark blue color and the gradient reduces with the decrease in number of crimes for the areas in LA.



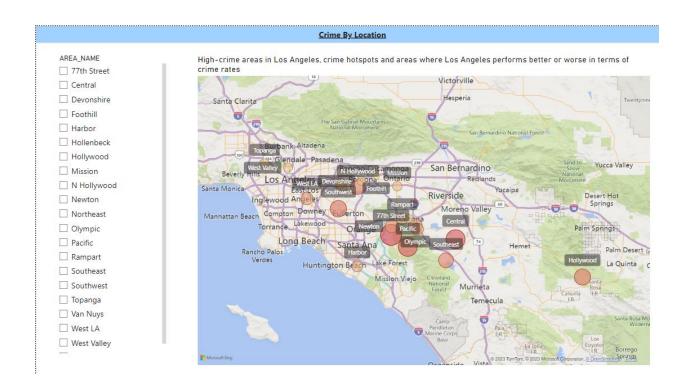
We can see by the above visualization that 77<sup>th</sup> Street in LA has the most number of crimes, ie. 26K crimes. The highest value showed in the legend is 26K and the lowest value shown in the legend in 14K.

Some of the crime hotspots are: 77<sup>th</sup> Street, Central, Pacific, Southwest, Hollywood to name a few.

The areas that perform better on crime rates in LA are -

Better: Mission, West Valley, Topanga, Devonshire.

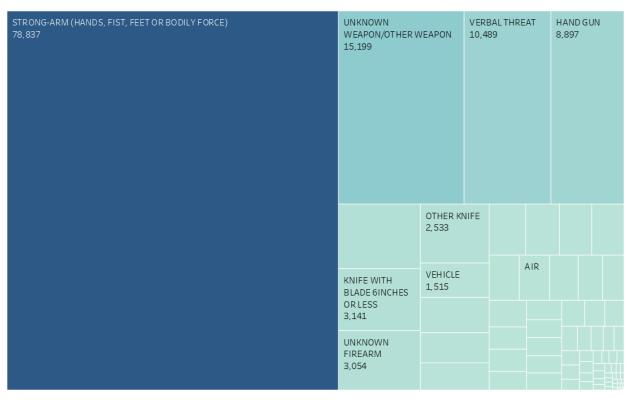
Worse: 77th Street, Central, Pacific, Southwest, Hollywood



# **Types of Crime:**

• What are the most commonly used weapons in reported crimes?

What are the most commonly used weapons in reported crimes?



The most common used weapon is the use of Hands, fist or bodily force – which corresponds to 78K, Other Weapon/ Unknown weapon corresponds to 15K, Verbal Threat corresponds to 10k, hand gun – 8k and semi-automatic pistol is around 3k, so on and so forth.

## **Demographic Analysis:**

• Show in the visualization the age patterns in crime.

Show in the visualization the age patterns in crime.

Vict Age

9K

7K

4K

3K

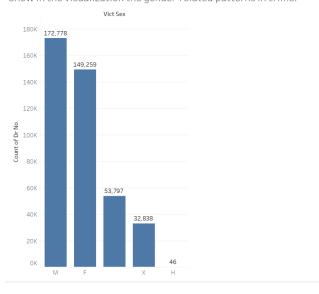
2K

The most amount of Victims are of the age 30 followed by 35, 29, 31, 28.

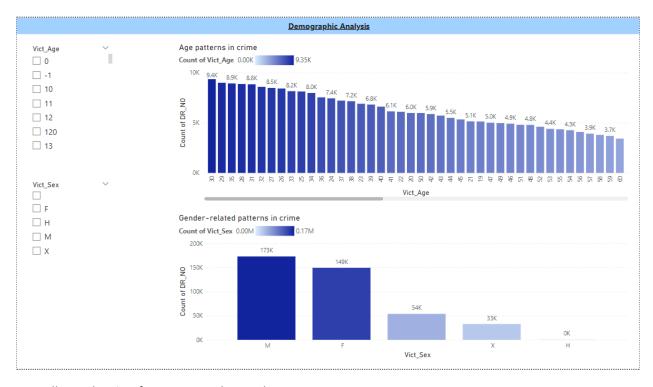
Therefore we can say that the victim ages corresponds between mid-20s to higher 40s.

• Show in the visualization the gender-related patterns in crime.

Show in the visualization the gender-related patterns in crime.



The data shows that there are 172K male victims and around 149K Female Victims, therefore we can conclude that there are a lot more male victims in LA than female victims.

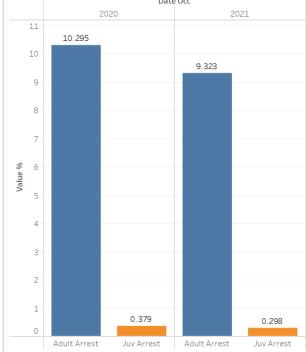


Overall visualization for Demographic analysis.

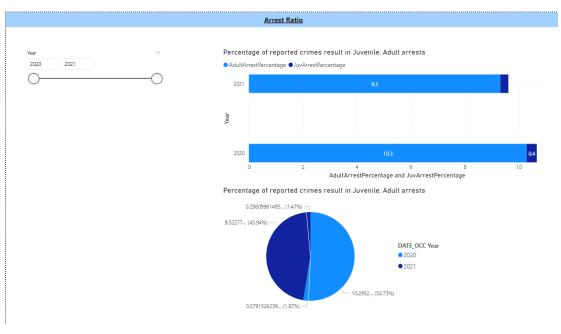
#### **Arrests Ratio:**

• What percentage of reported crimes result in Juvenile, Adult arrests?





For the year 2020, there were around 0.37% Juvenile arrests and 10.29% Adult arrests. We can see a decrease in the arrest percentage to 0.29% for Juvenile and 9,32% for Adults in the year 2021. This shows that there was an overall decrease in the arrest percentage for these 2 categories.



Overall visualization for Arrest Ratio