ECE 5984 Appl of Machine Learning – HW1

* Part 3:
  + Value in entire sheet: -999999
    - Quantity deleted: 2347634Graphical user interface, text

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* Part 4:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Statistics | hospital\_pk | collection\_week | state | ccn | hospital\_name | address |
| Mean | 267615.2708 | 44313.14773 | #DIV/0! | 267571.6 | #DIV/0! | 42071 |
| Min | 10001 | 44043 | 0 | 10001 | 0 | 42071 |
| Max | 677297 | 44582 | 0 | 677297 | 0 | 42071 |
| Range | 667296 | 539 | 0 | 667296 | 0 | 0 |
| Median | 260009 | 44316 | #NUM! | 260009 | #NUM! | 42071 |
| Mode | 10108 | 44190 | #N/A | 50515 | #N/A | 42071 |
| Variance | 24512671191 | 24737.22563 | #DIV/0! | 2.45E+10 | #DIV/0! | 0 |
| Std Deviation | 156565.2298 | 157.2807224 | #DIV/0! | 156579.7 | #DIV/0! | 0 |
| Quartile 1 | 140172 | 44176 | #NUM! | 140167 | #NUM! | 42071 |
| Quartile 2 | 260009 | 44316 | #NUM! | 260009 | #NUM! | 42071 |
| Quartile 3 | 390265 | 44449 | #NUM! | 390265 | #NUM! | 42071 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| previous\_week\_personnel\_covid\_vaccinated\_doses\_administered\_7\_day | total\_personnel\_covid\_vaccinated\_doses\_none\_7\_day | total\_personnel\_covid\_vaccinated\_doses\_one\_7\_day | total\_personnel\_covid\_vaccinated\_doses\_all\_7\_day | previous\_week\_patients\_covid\_vaccinated\_doses\_one\_7\_day | previous\_week\_patients\_covid\_vaccinated\_doses\_all\_7\_day |
| 82.96971 | 381.6317 | 499.6591 | 794.8471 | 170.8779 | 165.9432 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 539270 | 520037 | 520037 | 520037 | 520037 | 520037 |
| 539270 | 520037 | 520037 | 520037 | 520037 | 520037 |
| 0 | 85 | 32 | 163 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 4070709 | 2854061 | 5172733 | 5974814 | 4416263 | 3692328 |
| 2017.6 | 1689.397 | 2274.364 | 2444.343 | 2101.491 | 1921.543 |
| 0 | 10 | 0 | 32 | 0 | 0 |
| 0 | 85 | 32 | 163 | 0 | 0 |
| 11 | 295 | 239 | 649 | 6 | 5 |

* Part 6:
  1. **There are several hospital subtypes in this data. Prepare a table showing the average percentage used of inpatient hospital beds for each, and the average percent overall.**

Graphical user interface, application

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* 1. **Display a histogram of “Previous Day Admission Adult Covid Confirmed 7 Day Sum”; use bin size of 5.**

Chart, histogram

Description automatically generated

* 1. **Display a line graph of “Icu Patients Confirmed Influenza 7 Day Avg” by week, for the period from April 2020 through December 2021.**

Graphical user interface, application

Description automatically generated

* 1. **Identify the five hospitals with the highest “Total Pediatric Patients Hospitalized Confirmed Covid 7 Day Avg”.**

The top five are Texas Childrens Hosp, Childrens Medical CTR of Dallas, SSM Health St Anthony Hospital – Oklahoma City, Cook Childrens Medical Center, and Children’s Hosp of Los Angeles.

Graphical user interface, treemap chart

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* 1. **Identify the five states with the highest “Total Pediatric Patients Hospitalized Confirmed Covid 7 Day Avg”.**

The top 5 States are; TX, CA, FL, OH, and OK Chart, treemap chart

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* 1. **Create a calculated field called “InpatientBedsPctUsed” as the ratio of “Inpatient Beds Used 7 Day Avg” to “Inpatient Beds 7 Day Avg”. Display a map of this ratio by state for the 50 US states and Puerto Rico.Map

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  2. **Which hospital has the most inpatient beds?**

NEW YORK-PRESBYTERIAN HOSPITAL has the most inpatient beds with 1,641,118Chart

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* 1. **Which state has the highest number of influenza hospitalizations for the past seven days?**

California has the highest number of influenza hospitalizations with 1,228 and Texas in second place.Map

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