Wildfire Data Analysis and Healthcare Impact

DATA Description

1. Wildfire Data:

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| **Column Name** | Data Type | Description |
| OBJECTID | Integer | Unique identifier for each record in the dataset. |
| USGS\_Assigned\_ID | Numeric/String | Assigned identifier by the US Geological Survey (USGS) for the fire. |
| Assigned\_Fire\_Type | String | Type or classification of the assigned fire. |
| Fire\_Year | Integer | The calendar year in which the fire occurred. |
| Fire\_Polygon\_Tier | String | Tier or level of classification for the fire polygon. |
| Fire\_Attribute\_Tiers | String | Tiers or levels of attributes associated with the fire. |
| GIS\_Acres | Float | Area of the fire in acres according to the GIS data. |
| GIS\_Hectares | Float | Area of the fire in hectares according to the GIS data. |
| Source\_Datasets | String | List of datasets used as sources for fire information. |
| Listed\_Fire\_Types | String | Types of fires listed for the particular record. |
| Overlap\_Within\_1\_or\_2\_Flag | String | Flag indicating overlap within 1 or 2 units. |
| Circleness\_Scale | Float | Scale related to the circular shape of the fire. |
| Circle\_Flag | String | Flag indicating whether the fire has a circular shape. |
| Exclude\_From\_Summary\_Rasters | String | Flag indicating whether the fire should be excluded from summary rasters. |
| Shape\_Length | Float | Length of the shape representation of the fire. |
| Shape\_Area | Float | Area of the shape representation of the fire. |
| fire\_lat | Float | Latitude of the fire location. |
| fire\_lon | Float | Longitude of the fire location. |
| distance\_from\_del\_rio | Float | Distance from Del Rio, a reference point, to the fire location. |
| smoke\_estimate | Numeric | Estimate of smoke associated with the fire. |

1. AQI Data:

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| **Column Name** | Data Type | Description |
| date\_local | Date | The local date for which air quality information is recorded. |
| pollutant\_standard | String | The air quality pollutant standard being measured, such as PM2.5, PM10, Ozone, etc. |
| aqi | Integer | The Air Quality Index (AQI) value corresponding to the pollutant\_standard for the given date\_local. The AQI provides a numerical representation of the air quality level. |

1. Deaths by Race Data:

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| **Column Name** | Data Type | Description |
| Year | Integer | The calendar year in which the data was recorded. |
| All Races Total Deaths - Texas | Integer | The total number of deaths for all races in the state of Texas during the specified year. |
| All Races Total Deaths | Integer | The total number of deaths for all races across all regions during the specified year. |
| All Races Male Deaths | Integer | The total number of deaths for all races among males during the specified year. |
| All Races Female Deaths | Integer | The total number of deaths for all races among females during the specified year. |
| White Total Deaths | Integer | The total number of deaths among individuals identified as White during the specified year. |
| White Male Deaths | Integer | The total number of deaths among White males during the specified year. |
| White Female Deaths | Integer | The total number of deaths among White females during the specified year. |
| Black Total Deaths | Integer | The total number of deaths among individuals identified as Black during the specified year. |
| Black Male Deaths | Integer | The total number of deaths among Black males during the specified year. |
| Black Female Deaths | Integer | The total number of deaths among Black females during the specified year. |
| Hispanic\* Total Deaths | Integer | The total number of deaths among individuals identified as Hispanic\* during the specified year. |
| Hispanic\* Male Deaths | Integer | The total number of deaths among Hispanic\* males during the specified year. |
| Hispanic\* Female Deaths | Integer | The total number of deaths among Hispanic\* females during the specified year. |
| Other\*\* Total Deaths | Integer | The total number of deaths among individuals identified as Other\*\* during the specified year. |
| Other\*\* Male Deaths | Integer | The total number of deaths among Other\*\* males during the specified year. |
| Other\*\* Female Deaths | Integer | The total number of deaths among Other\*\* females during the specified year. |

1. Cancer Deaths Data:

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| **Column Name** | Data Type | Description |
| Year | Integer | The calendar year in which the data was recorded. |
| Population | Integer | The total number of individuals in a specified region or demographic during the year. |
| Cancer Deaths | Integer | The number of deaths attributed to cancer within the specified population and year. |
| Population affected | Integer | The count of individuals who have been diagnosed or affected by cancer in any form. |
| Cancer Incidents | Integer | The number of new cases of cancer reported or diagnosed within the specified population. |

1. Infants and Fetal Deaths Data:

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| **Column Name** | Data Type | Description |
| Year | Integer | The calendar year in which the data was recorded. |
| Infant Deaths | Integer | The number of deaths of infants (children below one year of age) during the year. |
| Infant Death Rate | Float | The rate of infant deaths per 1,000 live births during the specified year. |
| Fetal Deaths | Integer | The number of fetal deaths (stillbirths) during the specified year. |
| Fetal Death Ratio | Float | The ratio of fetal deaths to the total number of births during the specified year. |