

ASSIGNMENT - 1

Assessing the Safety of Municipal Drinking Water

Name : Gurumoorthi K

Register number : 922520106047

Naan Muthalvan Team: Analytical Data Science

Team ID: NM2023TMID19767

Assignmentlink in Workwl

| | | | | | | |
|-------------|-------|--------------------------|---------------------------|--------------------|-----------------|-------|
| | "0 | 6762810145 | 42491 | | 5 | |
| 2.50 | | 3650 | \n", | | | |
| | "1 | 6762810635 | 42491 | | 4 | |
| 2.50 | | 2920 | \n", | | | |
| | "2 | 6762810998 | 42491 | | 5 | |
| 2.75 | | 2910 | \n", | | | |
| | "3 | 6762812605 | 42491 | | 4 | |
| 2.50 | | 3310 | \n", | | | |
| | "4 | 6762812919 | 42491 | | 3 | |
| 2.00 | | 2710 | \n", | | | |
| | "\n", | | | | | |
| | " | lot area | number of floors | waterfront present | number of | |
| views | \\n", | | | | | |
| | "0 | 9050 | | 2.0 | | 0 |
| 4 | \n", | | | | | |
| | "1 | 4000 | | 1.5 | | 0 |
| 0 | \n", | | | | | |
| | "2 | 9480 | | 1.5 | | 0 |
| 0 | \n", | | | | | |
| | "3 | 42998 | | 2.0 | | 0 |
| 0 | \n", | | | | | |
| | "4 | 4500 | | 1.5 | | 0 |
| 0 | \n", | | | | | |
| | "\n", | | | | | |
| | " | condition of the house | ... | Built Year | Renovation Year | |
| Postal Code | \\n", | | | | | |
| | "0 | | 5 | ... | 1921 | 0 |
| 122003 | \n", | | | | | |
| | "1 | | 5 | ... | 1909 | 0 |
| 122004 | \n", | | | | | |
| | "2 | | 3 | ... | 1939 | 0 |
| 122004 | \n", | | | | | |
| | "3 | | 3 | ... | 2001 | 0 |
| 122005 | \n", | | | | | |
| | "4 | | 4 | ... | 1929 | 0 |
| 122006 | \n", | | | | | |
| | "\n", | | | | | |
| | " | Lattitude | Longitude | living_area_renov | lot_area_renov | |
| \\n", | | | | | | |
| | "0 | 52.8645 | -114.557 | | 2880 | 5400 |
| \n", | | | | | | |
| | "1 | 52.8878 | -114.470 | | 2470 | 4000 |
| \n", | | | | | | |
| | "2 | 52.8852 | -114.468 | | 2940 | 6600 |
| \n", | | | | | | |
| | "3 | 52.9532 | -114.321 | | 3350 | 42847 |
| \n", | | | | | | |
| | "4 | 52.9047 | -114.485 | | 2060 | 4500 |
| \n", | | | | | | |
| | "\n", | | | | | |
| | " | Number of schools nearby | Distance from the airport | | | |
| Price | \n", | | | | | |
| | "0 | | | 2 | | 58 |
| 2380000 | \n", | | | | | |
| | "1 | | | 2 | | 51 |
| 1400000 | \n", | | | | | |
| | "2 | | | 1 | | 53 |
| 1200000 | \n", | | | | | |

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| int64 | Date | 14620 non-null |
| int64 | number of bedrooms | 14620 non-null |
| int64 | number of bathrooms | 14620 non-null |
| float64 | living area | 14620 non-null |
| int64 | lot area | 14620 non-null |
| float64 | number of floors | 14620 non-null |
| int64 | waterfront present | 14620 non-null |

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int64  \n",
        " 10   grade of the house              14620 non-null
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        " 11   Area of the house(excluding basement) 14620 non-null
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float64\n",
        " 17   Longitude                        14620 non-null
float64\n",
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2.129583  \n",
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8.000000  \n",
    "\n",
    "
        living area      lot area  number of floors
waterfront present  \\\n",
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14620.000000  \n",
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0.087193  \n",
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1.000000  \n",
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    "
        number of views  condition of the house  ...  Built
Year  \\\n",
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1970.926402  \n",
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2015.000000  \n",

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Renovation Year      Postal Code      Lattitude
Longitude  \\ \n",
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114.404007  \n",
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0.141326  \n",
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114.709000  \n",
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114.519000  \n",
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114.421000  \n",
        "75%      0.000000      122048.000000      52.908900      -
114.315000  \n",
        "max      2015.000000      122072.000000      53.007600      -
113.505000  \n",
        "\n",
        "
living_area_renov  lot_area_renov  Number of schools
nearby  \\ \n",
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14620.000000  \n",
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2.012244  \n",
        "std      691.093366      26058.414467
0.817284  \n",
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1.000000  \n",
        "25%      1490.000000      5097.750000
1.000000  \n",
        "50%      1850.000000      7620.000000
2.000000  \n",
        "75%      2380.000000      10125.000000
3.000000  \n",
        "max      6110.000000      560617.000000
3.000000  \n",
        "\n",
        "
Distance from the airport      Price  \n",
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        "std      8.936008      3.675324e+05  \n",
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| 0.000000 | \n", | | | | |
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| 1.000000 | \n", | | | | |
| | "\n", | | | | |
| | " | number of views | condition of the house | ... | Built |
| Year | \\n", | | | | |
| | "count | 14620.000000 | 14620.000000 | ... | |
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| | "mean | 0.233105 | 3.430506 | ... | |
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| 2015.000000 | \n", | | | | |
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"sns.heatmap(corr, annot=True, cmap='coolwarm')\n",
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"sns.clustermap(corr, cmap='coolwarm')\n",
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10)\n",
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        "\n",
        "# Compute the correlation matrix\n",
        "corr = data.corr()\n",
        "\n",
        "# Visualize the correlation matrix as a heatmap\n",
        "sns.heatmap(corr, annot=True, cmap='coolwarm')\n",
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"print(data.describe())\n",
"\n",
"# Display the column-wise data types\n",
"print(data.dtypes)\n",
"\n",
"# Display the number of unique values in each column\n",
"print(data.nunique())"
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number of bathrooms  \\\n",
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14620.000000  \n",
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2.129583  \n",
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1.750000  \n",
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2.500000  \n",
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8.000000  \n",
      "\n",
      "
      living area    lot area  number of floors
waterfront present  \\\n",
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14620.000000  \n",
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0.000000  \n",

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| | \n", | | | | |
| 0.000000 | "75% | 2570.000000 | 1.080000e+04 | 2.000000 | |
| | \n", | | | | |
| 1.000000 | "max | 13540.000000 | 1.074218e+06 | 3.500000 | |
| | \n", | | | | |
| | "\n", | | | | |
| | " | number of views | condition of the house | ... | Built |
| Year | \\\n", | | | | |
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| 14620.000000 | \n", | | | | |
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| 1997.000000 | \n", | | | | |
| | "max | 4.000000 | 5.000000 | ... | |
| 2015.000000 | \n", | | | | |
| | "\n", | | | | |
| | " | Renovation Year | Postal Code | Lattitude | |
| Longitude | \\\n", | | | | |
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| | "50% | 0.000000 | 122032.000000 | 52.806400 | - |
| 114.421000 | \n", | | | | |
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| 114.315000 | \n", | | | | |
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| | "\n", | | | | |
| | " | living_area_renov | lot_area_renov | Number of schools | |
| nearby | \\\n", | | | | |
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| 14620.000000 | \n", | | | | |
| | "mean | 1996.702257 | 12753.500068 | | |
| 2.012244 | \n", | | | | |
| | "std | 691.093366 | 26058.414467 | | |
| 0.817284 | \n", | | | | |
| | "min | 460.000000 | 651.000000 | | |
| 1.000000 | \n", | | | | |
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| 1.000000 | \n", | | | | |

```

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\n",
3.000000    "75%          2380.000000    10125.000000
\n",
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\n",
\n",
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```

```

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        "data = pd.read_csv('/content/House Price India.csv',nrows=10)\n",
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```

```

        "# Create a scatter plot matrix to visualize the relationship
between pairs of variables\n",
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"      <td>...</td>\n",
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"      <td>52.8852</td>\n",
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"      <td>2940</td>\n",

```

```

"      <td>6600</td>\n",
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"      <td>0</td>\n",
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"      <td>-114.485</td>\n",
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"      <td>1</td>\n",
"      <td>51</td>\n",
"      <td>805000</td>\n",
"    </tr>\n",
"  </tbody>\n",
"</table>\n",
"<p>5 rows × 23 columns</p>\n",
"</div>\n",

```

```

"      <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-7800adef-924e-47b8-9aef-
de84deec7df0')\"\\n\",
"      title=\"Convert this dataframe to an
interactive table.\"\\n\",
"      style=\"display:none;\">\\n\",
"      \\n\",
"      <svg xmlns=\"http://www.w3.org/2000/svg\"
height=\"24px\"viewBox=\"0 0 24 24\"\\n\",
"      width=\"24px\">\\n\",
"      <path d=\"M0 0h24v24H0V0z\" fill=\"none\"/>\\n\",
"      <path d=\"M18.56 5.44l.94 2.06.94-2.06 2.06-.94-2.06-
.94-.94-2.06-.94 2.06-2.06.94zm-11 1L8.5 8.5l.94-2.06 2.06-.94-2.06-
.94L8.5 2.5l-.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06 2.06-.94-2.06-
.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-
.92-.59-1.43-.59-.52 0-1.04.2-1.43.59L10.3 9.45l-7.72 7.72c-.78.78-
2.05 0 2.83L4 21.41c.39.39.95.59 1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78
2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.59l7.72-7.72 1.47 1.35L5.41
20z\"/>\\n\",
"    </svg>\\n\",
"    </button>\\n\",
"    \\n\",
"    <style>\\n\",
"      .colab-df-container {\\n\",
"        display:flex;\\n\",
"        flex-wrap:wrap;\\n\",
"        gap: 12px;\\n\",
"      }\\n\",
"\\n\",
"      .colab-df-convert {\\n\",
"        background-color: #E8F0FE;\\n\",
"        border: none;\\n\",
"        border-radius: 50%;\\n\",
"        cursor: pointer;\\n\",
"        display: none;\\n\",
"        fill: #1967D2;\\n\",
"        height: 32px;\\n\",
"        padding: 0 0 0 0;\\n\",
"        width: 32px;\\n\",
"      }\\n\",
"\\n\",
"      .colab-df-convert:hover {\\n\",
"        background-color: #E2EBFA;\\n\",
"        box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px
1px 3px 1px rgba(60, 64, 67, 0.15);\\n\",
"        fill: #174EA6;\\n\",
"      }\\n\",
"\\n\",
"      [theme=dark] .colab-df-convert {\\n\",
"        background-color: #3B4455;\\n\",
"        fill: #D2E3FC;\\n\",
"      }\\n\",
"\\n\",
"      [theme=dark] .colab-df-convert:hover {\\n\",
"        background-color: #434B5C;\\n\",
"        box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\\n\",
"        filter: drop-shadow(0px 1px 2px rgba(0, 0, 0,
0.3));\\n\",

```

```

        fill: #FFFFFF;\n",
    "    }\n",
    "  </style>\n",
    "\n",
    "    <script>\n",
    "      const buttonEl =\n",
    "        document.querySelector('#df-7800adef-924e-47b8-9aef-de84deec7df0 button.colab-df-convert');\n",
    "      buttonEl.style.display =\n",
    "        google.colab.kernel.accessAllowed ? 'block' :
'none';\n",
    "    \n",
    "      async function convertToInteractive(key) {\n",
    "        const element = document.querySelector('#df-7800adef-924e-47b8-9aef-de84deec7df0');\n",
    "        const dataTable =\n",
    "          await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
    "        \n",
    "        [key], {});\n",
    "        if (!dataTable) return;\n",
    "        \n",
    "        const docLinkHtml = 'Like what you see? Visit
the ' +\n",
    "          '<a target=\"_blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data
table notebook</a>'\n",
    "          + ' to learn more about interactive
tables.';\n",
    "        element.innerHTML = ';\n",
    "        dataTable['output_type'] = 'display_data';\n",
    "        await
google.colab.output.renderOutput(dataTable, element);\n",
    "        const docLink =
document.createElement('div');\n",
    "        docLink.innerHTML = docLinkHtml;\n",
    "        element.appendChild(docLink);\n",
    "      }\n",
    "    </script>\n",
    "  </div>\n",
    " </div>\n",
    "  "
  ]
},
"metadata": {},
"execution_count": 17
}
]
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    "df.shape"
  ],
  "metadata": {
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    }
  },

```

```

      "id": "Hm27BCGW4ZVL",
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    },
    "execution_count": 18,
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        "output_type": "execute_result",
        "data": {
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            "(14620, 23)"
          ]
        },
        "metadata": {},
        "execution_count": 18
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    ]
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    },
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        "name": "stdout",
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          "<class 'pandas.core.frame.DataFrame'>\n",
          "RangeIndex: 14620 entries, 0 to 14619\n",
          "Data columns (total 23 columns):\n",
          " #   Column

```

| Dtype | # | Column | Non-Null Count |
|---------|-----|---------------------|----------------|
| | --- | ----- | ----- |
| int64 | 0 | id | 14620 non-null |
| int64 | 1 | Date | 14620 non-null |
| int64 | 2 | number of bedrooms | 14620 non-null |
| int64 | 3 | number of bathrooms | 14620 non-null |
| float64 | 4 | living area | 14620 non-null |
| int64 | 5 | lot area | 14620 non-null |
| int64 | 6 | number of floors | 14620 non-null |
| float64 | 7 | waterfront present | 14620 non-null |
| int64 | | | |

```

int64 \n", " 8    number of views          14620 non-null
int64 \n", " 9    condition of the house    14620 non-null
int64 \n", " 10   grade of the house           14620 non-null
int64 \n", " 11   Area of the house(excluding basement) 14620 non-null
int64 \n", " 12   Area of the basement         14620 non-null
int64 \n", " 13   Built Year                     14620 non-null
int64 \n", " 14   Renovation Year                14620 non-null
int64 \n", " 15   Postal Code                   14620 non-null
int64 \n", " 16   Lattitude                     14620 non-null
float64\n", " 17   Longitude                     14620 non-null
float64\n", " 18   living_area_renov                14620 non-null
int64 \n", " 19   lot_area_renov                 14620 non-null
int64 \n", " 20   Number of schools nearby          14620 non-null
int64 \n", " 21   Distance from the airport        14620 non-null
int64 \n", " 22   Price                          14620 non-null
int64 \n", "dtypes: float64(4), int64(19)\n",
          "memory usage: 2.6 MB\n"
    ]
  }
]
},
{
  "cell_type": "code",
  "source": [
    "df.isna().sum()"
  ],
  "metadata": {
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    },
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    "outputId": "58dc39b0-1002-4a97-8544-a408f118691b"
  },
  "execution_count": 20,
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    {
      "output_type": "execute_result",
      "data": {
        "text/plain": [
          "id          0\n",
          "Date       0\n",
          "number of bedrooms  0\n",
          "number of bathrooms 0\n",

```

```

        "living area"          0\n",
        "lot area"             0\n",
        "number of floors"     0\n",
        "waterfront present"   0\n",
        "number of views"      0\n",
        "condition of the house" 0\n",
        "grade of the house"    0\n",
        "Area of the house(excluding basement)" 0\n",
        "Area of the basement"  0\n",
        "Built Year"            0\n",
        "Renovation Year"       0\n",
        "Postal Code"           0\n",
        "Lattitude"             0\n",
        "Longitude"             0\n",
        "living_area_renov"     0\n",
        "lot_area_renov"        0\n",
        "Number of schools nearby" 0\n",
        "Distance from the airport" 0\n",
        "Price"                 0\n",
        "dtype: int64"
    ]
},
"metadata": {},
"execution_count": 20
}
]
},
{
    "cell_type": "code",
    "source": [
        "df[\"number of floors\"]"
    ],
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        "colab": {
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        },
        "id": "U3qgL0we4je5",
        "outputId": "c068ebdc-8833-45ea-80fd-5c8c26f90518"
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                    "1          1.5\n",
                    "2          1.5\n",
                    "3          2.0\n",
                    "4          1.5\n",
                    " ... \n",
                    "14615       1.0\n",
                    "14616       1.5\n",
                    "14617       1.0\n",
                    "14618       1.0\n",
                    "14619       1.0\n",
                    "Name: number of floors, Length: 14620, dtype: float64"
                ]
            }
        ]
    ]
}

```



```

        },
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    }
]
},
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    ],
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        "outputId": "5144c4db-5914-463b-843f-38f435a5930c"
    },
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        {
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            "data": {
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                    "array([2. , 1.5, 1. , 2.5, 3. , 3.5])"
                ]
            },
            "metadata": {},
            "execution_count": 23
        }
    ]
},
{
    "cell_type": "code",
    "source": [
        "sns.displot(df[\"Price\"])"
    ],
    "metadata": {
        "colab": {
            "base_uri": "https://localhost:8080/",
            "height": 523
        },
        "id": "Xj_b7O7d400B",
        "outputId": "8288ff15-2445-4862-d1b5-fedf7a64a638"
    },
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        {
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            "data": {
                "text/plain": [
                    "<seaborn.axisgrid.FacetGrid at 0x7f0a6bb21bd0>"
                ]
            },
            "metadata": {},
            "execution_count": 25
        }
    ],
    {

```

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  ],
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| from the airport | lot_area_renov | Number of schools nearby | Distance |
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        "                        [key], {});\n",
        "                if (!dataTable) return;\n",
        "                "\n",
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the ' +\n",
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table notebook</a>'\n",
        "                    + ' to learn more about interactive
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