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.94l8.5 2.5l-.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06-.94-2.06-.94-
.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-.92-
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          "14616  6762831612      NaN              NaN
NaN  \n",
          "14617  6762831613      NaN              NaN
NaN  \n",
          "14618  6762831615      NaN              NaN
NaN  \n",
          "14619  6762831616      NaN              NaN
NaN  \n",
          "\n",
          "
          living area  lot area  number of floors  waterfront
present  \\n",
          "0      1400.0      5000.0              1.0
0.0  \n",
          "1      NaN      NaN              NaN
NaN  \n",
          "2      NaN      NaN              NaN
NaN  \n",
          "3      NaN      NaN              NaN
NaN  \n",

```

NaN	\n",	"4	NaN	NaN	NaN	
...	\n",	"...	
NaN	\n",	"14615	NaN	NaN	NaN	
NaN	\n",	"14616	NaN	NaN	NaN	
NaN	\n",	"14617	NaN	NaN	NaN	
NaN	\n",	"14618	NaN	NaN	NaN	
NaN	\n",	"14619	NaN	NaN	NaN	
NaN	\n",	"\n",				
Year	\\n",	"	number of views	condition of the house	...	Built
2014.0	\n",	"0	0.0	3.0	...	
NaN	\n",	"1	NaN	NaN	...	
NaN	\n",	"2	NaN	NaN	...	
NaN	\n",	"3	NaN	NaN	...	
NaN	\n",	"4	NaN	NaN	...	
...	\n",	"...	
NaN	\n",	"14615	NaN	NaN	...	
NaN	\n",	"14616	NaN	NaN	...	
NaN	\n",	"14617	NaN	NaN	...	
NaN	\n",	"14618	NaN	NaN	...	
NaN	\n",	"14619	NaN	NaN	...	
NaN	\n",	"\n",				
living_area_renov	\\n",	"	Renovation Year	Postal Code	Lattitude	Longitude
1440.0	\n",	"0	0.0	122028.0	52.7745	-114.562
NaN	\n",	"1	NaN	NaN	52.8834	-114.552
NaN	\n",	"2	NaN	NaN	52.8947	NaN
NaN	\n",	"3	NaN	NaN	52.9146	NaN
NaN	\n",	"4	NaN	NaN	52.9255	NaN
...	\n",	"...

NaN	\n",	"14615	NaN	NaN	NaN	NaN
NaN	\n",	"14616	NaN	NaN	NaN	NaN
NaN	\n",	"14617	NaN	NaN	NaN	NaN
NaN	\n",	"14618	NaN	NaN	NaN	NaN
NaN	\n",	"14619	NaN	NaN	NaN	NaN

	"\n",				
	"	lot_area_renov	Number of schools nearby	Distance	
from the airport	\\n",				
	"0	5000.0		3.0	
54.0	\n",	"1	NaN	NaN	
NaN	\n",	"2	NaN	NaN	
NaN	\n",	"3	NaN	NaN	
NaN	\n",	"4	NaN	NaN	
NaN	\n",	"...	
...	\n",	"14615	NaN	NaN	
NaN	\n",	"14616	NaN	NaN	
NaN	\n",	"14617	NaN	NaN	
NaN	\n",	"14618	NaN	NaN	
NaN	\n",	"14619	NaN	NaN	

NaN	\n",	"\n",	
	"	Price	\n",
	"0	450000.0	\n",
	"1	NaN	\n",
	"2	NaN	\n",
	"3	NaN	\n",
	"4	NaN	\n",
	"...	...	\n",
	"14615	NaN	\n",
	"14616	NaN	\n",
	"14617	NaN	\n",
	"14618	NaN	\n",
	"14619	NaN	\n",
	"\n",		
	"[14620 rows x 23 columns]"		

```

],
"text/html": [
  "\n",
  "  <div id=\"df-54e33eed-04f6-434e-8212-cb7992591bbb\">\n",

```

```

"    <div class=\"colab-df-container\">\n",
"    <div>\n",
"<style scoped>\n",
"    .dataframe tbody tr th:only-of-type {\n",
"        vertical-align: middle;\n",
"    }\n",
"\n",
"    .dataframe tbody tr th {\n",
"        vertical-align: top;\n",
"    }\n",
"\n",
"    .dataframe thead th {\n",
"        text-align: right;\n",
"    }\n",
"</style>\n",
"<table border=\"1\" class=\"dataframe\">\n",
"  <thead>\n",
"    <tr style=\"text-align: right;\">\n",
"      <th></th>\n",
"      <th>id</th>\n",
"      <th>Date</th>\n",
"      <th>number of bedrooms</th>\n",
"      <th>number of bathrooms</th>\n",
"      <th>living area</th>\n",
"      <th>lot area</th>\n",
"      <th>number of floors</th>\n",
"      <th>waterfront present</th>\n",
"      <th>number of views</th>\n",
"      <th>condition of the house</th>\n",
"      <th>...</th>\n",
"      <th>Built Year</th>\n",
"      <th>Renovation Year</th>\n",
"      <th>Postal Code</th>\n",
"      <th>Latitude</th>\n",
"      <th>Longitude</th>\n",
"      <th>living_area_renov</th>\n",
"      <th>lot_area_renov</th>\n",
"      <th>Number of schools nearby</th>\n",
"      <th>Distance from the airport</th>\n",
"      <th>Price</th>\n",
"    </tr>\n",
"  </thead>\n",
"  <tbody>\n",
"    <tr>\n",
"      <th>0</th>\n",
"      <td>6762810020</td>\n",
"      <td>42543.0</td>\n",
"      <td>3.0</td>\n",
"      <td>2.5</td>\n",
"      <td>1400.0</td>\n",
"      <td>5000.0</td>\n",
"      <td>1.0</td>\n",
"      <td>0.0</td>\n",
"      <td>0.0</td>

```

[illegible]

[illegible]

[illegible]

[illegible]

```

"      <td>NaN</td>\n",
"      <td>...</td>\n",
"      <td>NaN</td>\n",
"      <td>NaN</td>\n",
"      <td>NaN</td>\n",
"      <td>NaN</td>\n",
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"      <td>NaN</td>\n",
"      <td>NaN</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>14619</th>\n",
"    <td>6762831616</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
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"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"    <td>NaN</td>\n",
"  </tr>\n",
" </tbody>\n",
"</table>\n",
"<p>14620 rows Ã- 23 columns</p>\n",
"</div>\n",
"  <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-54e33eed-04f6-434e-8212-
cb7992591bbb')\">\n",
"    title=\"Convert this dataframe to an
interactive table.\">\n",
"    style=\"display:none;\">\n",
"  </button>\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 2.06.94-2.06.94-2.06.94-2.06-
.94-.94-2.06-.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-

```



```

        "                google.colab.kernel.accessAllowed ? 'block' :
'none';\n",
        "\n",
        "                async function convertToInteractive(key) {\n",
        "                    const element = document.querySelector('#df-
54e33eed-04f6-434e-8212-cb7992591bbb');\n",
        "                    const dataTable =\n",
        "                        await
google.colab.kernel.invokeFunction('convertToInteractive',\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",
        "    "
    ]
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    "df.var()"
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    "outputId": "d266c126-d9b1-4bb8-9646-61f00f13a576"
  },
  "execution_count": null,
  "outputs": [

```

```

{
  "output_type": "execute_result",
  "data": {
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      "id                3.890734e+07\n",
      "Date              4.535752e+03\n",
      "number of bedrooms 8.811931e-01\n",
      "number of bathrooms 5.927991e-01\n",
      "living area        8.616958e+05\n",
      "lot area           1.437898e+09\n",
      "number of floors   2.918578e-01\n",
      "waterfront present 7.602572e-03\n",
      "number of views    5.871521e-01\n",
      "condition of the house 4.410968e-01\n",
      "grade of the house  1.380702e+00\n",
      "Area of the house(excluding basement) 6.952391e+05\n",
      "Area of the basement 2.011984e+05\n",
      "Built Year          8.698739e+02\n",
      "Renovation Year     1.732363e+05\n",
      "Postal Code         3.641387e+02\n",
      "Latitude            1.891231e-02\n",
      "Longitude           1.997301e-02\n",
      "living_area_renov   4.776100e+05\n",
      "lot_area_renov      6.790410e+08\n",
      "Number of schools nearby 6.679532e-01\n",
      "Distance from the airport 7.985224e+01\n",
      "Price               1.350801e+11\n",
      "dtype: float64"
    ]
  },
  "metadata": {},
  "execution_count": 21
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    },
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    "outputId": "5327a7bb-d582-4496-be9a-8512eadea39d"
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  "execution_count": null,
  "outputs": [
    {
      "output_type": "execute_result",
      "data": {
        "text/plain": [
          "id                6237.574799\n",

```

```

        "Date" 67.347991\n",
        "number of bedrooms" 0.938719\n",
        "number of bathrooms" 0.769934\n",
        "living area" 928.275721\n",
        "lot area" 37919.621304\n",
        "number of floors" 0.540239\n",
        "waterfront present" 0.087193\n",
        "number of views" 0.766259\n",
        "condition of the house" 0.664151\n",
        "grade of the house" 1.175033\n",
        "Area of the house(excluding basement)" 833.809963\n",
        "Area of the basement" 448.551409\n",
        "Built Year" 29.493625\n",
        "Renovation Year" 416.216661\n",
        "Postal Code" 19.082418\n",
        "Latitude" 0.137522\n",
        "Longitude" 0.141326\n",
        "living_area_renov" 691.093366\n",
        "lot_area_renov" 26058.414467\n",
        "Number of schools nearby" 0.817284\n",
        "Distance from the airport" 8.936008\n",
        "Price" 367532.380804\n",
        "dtype: float64"
    ]
},
"metadata": {},
"execution_count": 22
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]
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        },
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    },
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        {
            "output_type": "execute_result",
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                "text/plain": [
                    "id -0.000802\n",
                    "Date 0.143747\n",
                    "number of bedrooms 2.663257\n",
                    "number of bathrooms 0.556663\n",
                    "living area 1.538337\n",
                    "lot area 10.155206\n",

```

```

        "number of floors"          0.586158\n",
        "waterfront present"       11.294672\n",
        "number of views"          3.409219\n",
        "condition of the house"    1.018018\n",
        "grade of the house"        0.777584\n",
        "Area of the house(excluding basement) 1.436446\n",
        "Area of the basement"      1.609744\n",
        "Built Year"                -0.472049\n",
        "Renovation Year"           4.359764\n",
        "Postal Code"               0.227735\n",
        "Lattitude"                 -0.523831\n",
        "Longitude"                 0.873803\n",
        "living_area_renov"         1.081959\n",
        "lot_area_renov"            7.774206\n",
        "Number of schools nearby"   -0.022519\n",
        "Distance from the airport"  0.006114\n",
        "Price"                     4.269298\n",
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    ]
},
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}
]
},
{
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        "* number of bedrooms\n",
        "* lot area\n",
        "* waterfront present\n",
        "* number of views\n",
        "* Renovation year\n",
        "* lot_area_renov\n",
        "* Price\n",
        "\n",
        "-- are highly skewed"
    ],
    "metadata": {
        "id": "isflD4Id9MyI"
    }
},
{
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        "-- Descriptive statistics helps to explore the features of your data, like center, spread and shape by summarizing them with numerical measurements. "
    ],
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    }
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{

```

```

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],
"metadata": {
  "id": "u-LHEzJa-iAV"
}
},
{
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  "source": [
    "df.isnull().sum()"
  ],
  "metadata": {
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      "base_uri": "https://localhost:8080/"
    },
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    "outputId": "75f0597b-282f-453c-bf87-63999bdad4e2"
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  "outputs": [
    {
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      "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",
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      "data": {
        "text/plain": "25"
      },
      "metadata": {}
    }
  ],
  "execution_count": 25
}

```

```
    }
  ]
},
{
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  "source": [
    "-- This shows that there is no columns with missing values. So
need of handling the missing data"
  ],
  "metadata": {
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  }
}
]
```