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France  Female   42   \n",
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Spain  Female   41   \n",
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France  Female   42   \n",

```

```

"3      4      15701354      Boni      699
France Female 39  \n",
"4      5      15737888 Mitchell      850
Spain Female 43  \n",
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IsActiveMember  \\\n",
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1  \n",
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1  \n",
"2      8      159660.80      3      1
0  \n",
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0  \n",
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1  \n",

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8.51.94-2.06 2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10
101.94 2.06.94-2.06 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-.59-1.43-.59-.52
0-1.04.2-1.43.59L10.3 9.45l-7.72 7.72c-.78.78-.78 2.05 0 2.83L4
21.41c.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78
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{\n",
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document.querySelector('#df-6db68df2-8a95-4ea5-ab5e-
aaadcb08c0c6');\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",
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|             | RowNumber     |           | 1.000000  | 0.004202   |
| 0.005840    | 0.000783      | -0.006495 | \\n",     |            |
|             | CustomerId    |           | 0.004202  | 1.000000   |
| 0.005308    | 0.009497      | -0.014883 | \\n",     |            |
|             | CreditScore   |           | 0.005840  | 0.005308   |
| 1.000000    | -0.003965     | 0.000842  | \\n",     |            |
|             | Age           |           | 0.000783  |            |
| 0.009497    | -0.003965     | 1.000000  | -0.009997 | \\n",      |
|             | Tenure        |           | -0.006495 | -0.014883  |
| 0.000842    | -0.009997     | 1.000000  | \\n",     |            |
|             | Balance       |           | -0.009067 | -0.012419  |
| 0.006268    | 0.028308      | -0.012254 | \\n",     |            |
|             | NumOfProducts |           | 0.007246  | 0.016972   |
| 0.012238    | -0.030680     | 0.013444  | \\n",     |            |
|             | HasCrCard     |           |           |            |
| 0.000599    | -0.014025     | -0.005458 | -0.011721 | 0.022583   |


\\n",


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"Exited              -0.016571   -0.006248   -0.027094
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    "\n",
    "
                                Balance  NumOfProducts
HasCrCard  IsActiveMember  \\\n",
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    "CustomerId          -0.012419
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    "CreditScore         0.006268
0.012238  -0.005458      0.025651  \n",
    "Age
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    "Tenure              -0.012254          0.013444
0.022583      -0.028362  \n",
    "Balance
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    "NumOfProducts      -0.304180          1.000000
0.003183      0.009612  \n",
    "HasCrCard          -0.014858          0.003183
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    "EstimatedSalary    0.012797
0.014204  -0.009933      -0.011421  \n",
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0.118533      -0.047820  -0.007138      -0.156128  \n",
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    "Age                -0.007201  0.285323  \n",
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    "Balance             0.012797  0.118533  \n",
    "NumOfProducts       0.014204 -0.047820  \n",
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"     <td>0.285323</td>\n",
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"     <td>-0.014883</td>\n",
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"     <td>-0.014001</td>\n",
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" <tr>\n",
"     <th>Balance</th>\n",
"     <td>-0.009067</td>\n",

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"      <td>-0.012419</td>\n",
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```

```

"      </tr>\n",
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"      <td>0.285323</td>\n",
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"      <td>1.000000</td>\n",
"    </tr>\n",
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"</div>\n",
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\"convertToInteractive('df-78fe0be3-
ecb9-4cc8-94d5-04df39ff34aa')\">\n",
"      title=\"Convert this dataframe to an
interactive table.\"",
"      style=\"display:none;\">\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-.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-.78 2.05 0 2.83L4
21.41c.39.39.95 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",
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    "    gap: 12px;\n",
    "  }\n",
    "\n",
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    "    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",
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    "\n",
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0.15);\n",
    "    filter: drop-shadow(0px 1px 2px rgba(0, 0,
0, 0.3));\n",
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    "\n",
    "<script>\n",
    "  const buttonEl =\n",
    "    document.querySelector('#df-78fe0be3-ecb9-4cc8-94d5-04df39ff34aa 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-78fe0be3-
ecb9-4cc8-94d5-04df39ff34aa');\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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  "import pandas as pd"
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Traceback (most recent call last)",
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in \u001b[0;36m<module>\u001b[0;34m\u001b[0m\n\u001b[0;32m----> 1
\u001b[0;31m \u001b[0mdf\u001b[0m\u001b[0;34m.\u001b[0m
\u001b[0mdescribe\u001b[0m\u001b[0;34m(\u001b[0m
\u001b[0;34m)\u001b[0m\u001b[0;34m[\u001b[0m
\u001b[0;34m'\u001b[0m\u001b[0;34m'Age'\u001b[0m\u001b[0;34m,\u001b[0m
\u001b[0;34m'\u001b[0m\u001b[0;34m'Balance'\u001b[0m\u001b[0;34m]\u001b[0m\u001b[0;34m]\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m",
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\u001b[0;31m \u001b[0mprint\u001b[0m\u001b[0;34m(\u001b[0m
\u001b[0mChurn_Modeling\u001b[0m\u001b[0;34m[\u001b[0m
\u001b[0;34m'Age'\u001b[0m\u001b[0;34m]\u001b[0m\u001b[0;34m.\u001b[0m
\u001b[0m\u001b[0mdtypes\u001b[0m\u001b[0;34m)\u001b[0m\u001b[0m
\u001b[0;34m\u001b[0m\u001b[0;34m\u001b[0m\u001b[0m\n\u001b[0m",
        "\u001b[0;31mNameError\u001b[0m: name
'Churn_Modeling' is not defined"
    ]
}
},
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Traceback (most recent call last)",
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in \u001b[0;36m<module>\u001b[0;34m\u001b[0m\n\u001b[0;32m----> 1
\u001b[0;31m \u001b[0mdf\u001b[0m\u001b[0;34m=\u001b[0m
\u001b[0mpd\u001b[0m\u001b[0;34m.\u001b[0m\u001b[0mread_csv

```



```

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      "    X, y, age=0.05, balance=0)"
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]
}

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