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        "import pandas as pd"
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        "Pclass Passenger Class (1 = 1st; 2 = 2nd; 3 = 3rd): Categórica Nominal \n",
        "survival Survival (0 = No; 1 = Yes) \n",
        "name Name \n",
        "sex Sex \n",
        "age Age \n",
        "sibsp Number of Siblings/Spouses Aboard \n",
        "parch Number of Parents/Children Aboard \n",
        "ticket Ticket Number \n",
        "fare Passenger Fare (British pound) \n",
        "cabin Cabin \n",
        "embarked Port of Embarkation (C = Cherbourg; Q = Queenstown; S = Southampton) \n",
        "boat Lifeboat \n",
        "body Body Identification Number \n",
        "home.dest Home/Destination"
      ]
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        "***Ejemplo:** Crear un objeto DataFrame con base en un archivo .csv (poner \"df = \")"
      ]
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}

```

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    "df.shape"
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          "      <th>Survived</th>\n",

```

```

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"      <th>Name</th>\n",
"      <th>Sex</th>\n",
"      <th>Age</th>\n",
"      <th>SibSp</th>\n",
"      <th>Parch</th>\n",
"      <th>Ticket</th>\n",
"      <th>Fare</th>\n",
"      <th>Cabin</th>\n",
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"      <td>1</td>\n",
"      <td>Futrelle, Mrs. Jacques Heath (Lily May Peel)</td>\n",
"      <td>female</td>\n",

```

```

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"      <td>1</td>\n",
"      <td>0</td>\n",
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"      <td>53.1000</td>\n",
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"    <td>8.0500</td>\n",
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"1             2         1       1  \n",
"2             3         1       3  \n",
"3             4         1       1  \n",
"4             5         0       3  \n",
"\n",
"                                     Name      Sex  Age  SibSp  \\\n",
"0                                Braund, Mr. Owen Harris    male  22.0    1  \n",
"1  Cumings, Mrs. John Bradley (Florence Briggs Th...  female  38.0    1  \n",
"2                                Heikkinen, Miss. Laina  female  26.0    0  \n",
"3  Futrelle, Mrs. Jacques Heath (Lily May Peel)    female  35.0    1  \n",
"4                                Allen, Mr. William Henry    male  35.0    0  \n",
"\n",
"  Parch      Ticket    Fare Cabin Embarked  \n",
"0      0   A/5 21171   7.2500   NaN        S  \n",
"1      0    PC 17599  71.2833   C85        C  \n",
"2      0  STON/O2. 3101282   7.9250   NaN        S  \n",
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"4      0    373450   8.0500   NaN        S  "
]
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      "      <th>Sex</th>\n",
      "      <th>Age</th>\n",
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"      PassengerId  Survived  Pclass                                Name \\n",
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"887             888         1       1      Graham, Miss. Margaret Edith \\n",
"888             889         0       3  Johnston, Miss. Catherine Helen \"Carrie\" \\n",
"889             890         1       1      Behr, Mr. Karl Howell \\n",
"890             891         0       3      Dooley, Mr. Patrick \\n",
"\\n",
"      Sex    Age  SibSp  Parch    Ticket   Fare Cabin Embarked \\n",
"886  male   27.0     0     0    211536   13.00   NaN      S \\n",
"887  female 19.0     0     0    112053   30.00   B42      S \\n",
"888  female  NaN     1     2    W./C. 6607   23.45   NaN      S \\n",
"889   male   26.0     0     0    111369   30.00  C148      C \\n",
"890   male   32.0     0     0    370376    7.75   NaN      Q  "
]

```

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        "RangeIndex: 891 entries, 0 to 890\n",
        "Data columns (total 12 columns):\n",
        " #   Column        Non-Null Count  Dtype  \n",
        "---  -
        " 0   PassengerId    891 non-null   int64  \n",
        " 1   Survived       891 non-null   int64  \n",
        " 2   Pclass         891 non-null   int64  \n",
        " 3   Name           891 non-null   object \n",
        " 4   Sex            891 non-null   object \n",
        " 5   Age            714 non-null   float64\n",
        " 6   SibSp          891 non-null   int64  \n",
        " 7   Parch          891 non-null   int64  \n",
        " 8   Ticket         891 non-null   object \n",
        " 9   Fare           891 non-null   float64\n",
        " 10  Cabin          204 non-null   object \n",
        " 11  Embarked       889 non-null   object \n",
        "dtypes: float64(2), int64(5), object(5)\n",
        "memory usage: 83.7+ KB\n"
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    }
  ]
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"source": [
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  "#Muestra el total de datos, las columnas y su tipo correspondiente, dice si contiene nulos o no\n",
  "df.info()"
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        "Pclass            3\n",
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        "Sex               2\n",
        "Age              88\n",
        "SibSp             7\n",
        "Parch            7\n",
        "Ticket           681\n",
        "Fare             248\n",
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```

" <thead>\n",
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"     <th></th>\n",
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"     <th>Pclass</th>\n",
"     <th>Age</th>\n",
"     <th>SibSp</th>\n",
"     <th>Parch</th>\n",
"     <th>Fare</th>\n",
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"     <td>0.381594</td>\n",
"     <td>32.204208</td>\n",
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"mean      446.000000     0.383838     2.308642   29.699118    0.523008  \n",
"std       257.353842     0.486592     0.836071   14.526497    1.102743  \n",
"min         1.000000     0.000000     1.000000     0.420000    0.000000  \n",
"25%       223.500000     0.000000     2.000000   20.125000    0.000000  \n",
"50%       446.000000     0.000000     3.000000   28.000000    0.000000  \n",
"75%       668.500000     1.000000     3.000000   38.000000    1.000000  \n",
"max       891.000000     1.000000     3.000000   80.000000    8.000000  \n",
"\n",
"      Parch      Fare  \n",
"count    891.000000    891.000000  \n",
"mean         0.381594    32.204208  \n",
"std         0.806057    49.693429  \n",
"min         0.000000     0.000000  \n",
"25%         0.000000     7.910400  \n",
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        "      <td>male</td>\n",
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        "      <td>B96 B98</td>\n",
        "      <td>S</td>\n",
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        "    <tr>\n",
        "      <th>freq</th>\n",
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"freq                                1    577      7      4    644"
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"Pclass           0\n",
"Name             0\n",
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"Age             177\n",
"SibSp           0\n",
"Parch           0\n",
"Ticket          0\n",
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"Cabin          687\n",
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      "\n",
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          "Name: Age, dtype: float64\n"
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      "mean_age = df['Age'].mean()\n",
      "median_age = df['Age'].median()\n",
      "mode_age = df['Age'].mode()\n",
      "print(\"Mean_age:\",mean_age)\n",
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      "print(\"Mode_age:\",mode_age)"
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"La edad más repetida fue de 24 "
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"# nombreDataframe['columna'].value_counts()\n",
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```

```

],
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\n",
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  "df[\"Sex\"].value_counts()"
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    "# Crear variable familySize que incluya la suma de las columnas SibSp y Parch\n",
    "# Mostrar el total por cada tamaño de familia\n",
    "df[\"familySize\"] = df[\"SibSp\"] + df[\"Parch\"]"
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          \"2          3         1        3  \\n\",
          \"3          4         1        1  \\n\",
          \"4          5         0        3  \\n\",
          \"..         ...         ...      ...  \\n\",
          \"886        887         0        2  \\n\",
          \"887        888         1        1  \\n\",
          \"888        889         0        3  \\n\",
          \"889        890         1        1  \\n\",
          \"890        891         0        3  \\n\",
          \"\\n\",
          \"\n\n      Name      Sex  Age  SibSp  \\n\",
          \"0      Braund, Mr. Owen Harris    male  22.0      1  \\n\",
          \"1  Cumings, Mrs. John Bradley (Florence Briggs Th... female  38.0      1  \\n\",
          \"2      Heikkinen, Miss. Laina    female  26.0      0  \\n\",
          \"3  Futrelle, Mrs. Jacques Heath (Lily May Peel)    female  35.0      1  \\n\",
          \"4      Allen, Mr. William Henry    male  35.0      0  \\n\",
          \"..         ...         ...      ...      ...  \\n\",

```

```

"886          Montvila, Rev. Juozas    male  27.0    0  \n",
"887          Graham, Miss. Margaret Edith  female  19.0    0  \n",
"888      Johnston, Miss. Catherine Helen \"Carrie\"  female   NaN    1  \n",
"889          Behr, Mr. Karl Howell    male  26.0    0  \n",
"890          Dooley, Mr. Patrick    male  32.0    0  \n",
"\n",
"      Parch      Ticket    Fare Cabin Embarked  familySize  \n",
"0         0          A/5 21171    7.2500   NaN      S          1  \n",
"1         0           PC 17599   71.2833   C85      C          1  \n",
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"3         0          113803   53.1000  C123      S          1  \n",
"4         0          373450    8.0500   NaN      S          0  \n",
"...      ...          ...      ...      ...      ...      ...  \n",
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"889         0          111369   30.0000  C148      C          0  \n",
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"SibSp              1\n",
"Parch              0\n",
"Ticket      A/5 21171\n",
"Fare          7.25\n",
"Cabin      NaN\n",
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"      <th>Age</th>\n",
"      <th>SibSp</th>\n",
"      <th>Parch</th>\n",
"      <th>Ticket</th>\n",
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```

```

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"1            2         1       1   \n",
"2            3         1       3   \n",
"\n",
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"0                                Braund, Mr. Owen Harris    male  22.0      1   \n",
"1  Cumings, Mrs. John Bradley (Florence Briggs Th...  female  38.0      1   \n",
"2                                Heikkinen, Miss. Laina  female  26.0      0   \n",
"\n",
"  Parch      Ticket    Fare Cabin Embarked  familySize  \n",
"0      0          A/5 21171    7.2500  NaN      S          1   \n",
"1      0          PC 17599   71.2833   C85      C          1   \n",
"2      0  STON/O2. 3101282    7.9250  NaN      S          0   "
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          "      <td>...</td>\n",
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          "      <td>Montvila, Rev. Juozas</td>\n",

```

```

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"    <th>887</th>\n",
"    <td>Graham, Miss. Margaret Edith</td>\n",
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"2                                Heikkinen, Miss. Laina  26.0\n",
"3  Futrelle, Mrs. Jacques Heath (Lily May Peel)  35.0\n",
"4                                Allen, Mr. William Henry  35.0\n",
"..                                     ...  ... \n",
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"887                                Graham, Miss. Margaret Edith  19.0\n",
"888  Johnston, Miss. Catherine Helen \"Carrie\"  NaN\n",
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"373	Ringhini, Mr. Sante	male	22.0	0	\n",
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"434	Silvey, Mr. William Baird	male	50.0	1	\n",
"438	Fortune, Mr. Mark	male	64.0	1	\n",
"475	Clifford, Mr. George Quincy	male	NaN	0	\n",
"498	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)	female	25.0	1	\n",
"505	Penasco y Castellana, Mr. Victor de Satode	male	18.0	1	\n",
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"544	Douglas, Mr. Walter Donald	male	50.0	1	\n",
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"655	Hickman, Mr. Leonard Mark	male	24.0	2	\n",
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"665	Hickman, Mr. Lewis	male	32.0	2	\n",
"671	Davidson, Mr. Thornton	male	31.0	1	\n",
"698	Thayer, Mr. John Borland	male	49.0	1	\n",
"741	Cavendish, Mr. Tyrell William	male	36.0	1	\n",
"745	Crosby, Capt. Edward Gifford	male	70.0	1	\n",
"748	Marvin, Mr. Daniel Warner	male	19.0	1	\n",
"789	Guggenheim, Mr. Benjamin	male	46.0	0	\n",
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"826	Lam, Mr. Len	male	NaN	0	\n",
"846	Sage, Mr. Douglas Bullen	male	NaN	8	\n",
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