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    "import seaborn as sns\n",
    "import matplotlib.pyplot as plt"
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    "Glucose = resultado en prueba de glucosa; variable cuantitativa discreta\n",
    "Outcome = 0 y 1; donde \"0\" indica un paciente sano y \"1\" indica un paciente diabético;
variable cuantitativa discreta"
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    п
          Glucose\n",
    •
          BloodPressure\n",
          SkinThickness\n",
          Insulin\n",
    п
          BMI\n",
    •
          DiabetesPedigreeFunction\n",
          Age\n",
          Outcome\n",
         \n",
       </thead>\n",
```

```
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  \langle tr \rangle \ n'',
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•
   0.672\n",
   32\n",
   1\n",
п
  \n",
•
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...
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                 1
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                                                             0
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                                      64
                                                    0
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                                                                23.3
    "3
                 1
                        89
                                      66
                                                    23
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                                                                28.1
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    "4
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                                      40
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                                                           168 43.1
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    "\n",
        DiabetesPedigreeFunction Age Outcome \n",
    "0
                                            \n",
                         0.627
                                50
                                          1
    "1
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                         0.672
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                                 21
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    "4
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                                33
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    "\n",
    •
         .dataframe thead th {\n",
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           \n",
    •
           Pregnancies\n",
           Glucose\n",
           BloodPressure\n",
    •
           SkinThickness\n",
    •
           Insulin\n",
           BMI\n",
           DiabetesPedigreeFunction\n",
    •
           Age\n",
    •
           Outcome\n",
         \n",
       </thead>\n",
       \n",
         \langle tr \rangle \langle n'',
```

```
763\n",
..
    10\n"
ш
    101\n",
    76\n",
    48\n",
    180\n"
•
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    0.171\n",
    63\n",
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    764
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    70\n",
"
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•
    0\n",
•
    36.8\n"
    0.340\n",
    27\n",
ш
    0\n",
   \n",
   \n",
...
    765\n",
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    5\n",
    121\n",
    72\n",
•
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    112\n",
    26.2\n",
    0.245\n",
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п
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    60\n",
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    0\n",
...
    0\n",
    30.1\n"
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•
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    1\n",
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•
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ш
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                                         BMI \\\n",
```

```
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       "767
                       1
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                                               70
                                                              31
                                                                        0 30.4
                                                                                  \n",
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             DiabetesPedigreeFunction Age Outcome
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            Column
                                                              \n",
                                      Non-Null Count Dtype
      "---
                                                              \n"
                                      _____
      " 0
                                                              \n",
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                                      768 non-null
                                                       int64
      " 1
            Glucose
                                      768 non-null
                                                       int64
                                                              n"
      " 2
            BloodPressure
                                      768 non-null
                                                       int64
                                                              \n"
       3
            SkinThickness
                                      768 non-null
                                                       int64
      " 4
            Insulin
                                      768 non-null
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      " 5
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                                                       float64\n",
     " 6
                                                       float64\n",
            DiabetesPedigreeFunction 768 non-null
      " 7
                                                       int64 \n",
                                      768 non-null
            Age
            Outcome
                                      768 non-null
                                                       int64 n,
      "dtypes: float64(2), int64(7)\n",
      "memory usage: 54.1 KB\n"
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    "#Muestra el total de datos, las columnas y su tipo correspondiente, dice si contiene nulos o
no\n",
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```

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    Glucose\n",
    BloodPressure\n",
    SkinThickness\n",
    Insulin\n",
    BMI\n",
п
    DiabetesPedigreeFunction\n",
•
    Age\n",
    Outcome\n",
   \n",
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п
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п
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...
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```

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                                          SkinThickness
                                                          Insulin
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                   31.972618
                                19.355807
                                             15.952218
                                                       115.244002
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                  199.000000
                                             99.000000
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"\n",
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             BMI
                                                     Outcome
                                              Age
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"mean
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"std
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                                         11.760232
                                                     0.476951
```

```
"min
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     "BloodPressure
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     "SkinThickness
     "Insulin
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     "BMI
                                   0\n",
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     "DiabetesPedigreeFunction
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    11
             106, 171, 159, 146,
                                  71, 105, 101, 176, 150, 73, 187, 84, 44,\n"
    ...
             141, 114, 95, 129, 79, 0, 62, 131, 112, 113, 74, 83, 136,\n"
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                                                                    76, 160,\n"
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     ..
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    "Median_pregnancies: 3.0\n",
    "Mode_pregnancies: 0
                          1\n"
    "Name: Pregnancies, dtype: int64\n"
   ]
  }
 ],
 "source": [
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  "#Se puede obtener la media, mediana y moda para\n",
  "mean pregnancies = df['Pregnancies'].mean()\n",
  "median_pregnancies = df['Pregnancies'].median()\n",
  "mode_pregnancies = df['Pregnancies'].mode()\n",
  "print(\"Mean_pregnancies:\",mean_pregnancies)\n";
  "print(\"Median_pregnancies:\", median_pregnancies)\n",
  "print(\"Mode pregnancies:\",mode pregnancies)"
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  "La cantidad de embarazos al centro es 3 \n",
  "La cantidad de embarazos más repetida fue de 0 y 1"
 ]
},
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    "Median_glucose: 117.0\n",
    "Mode_glucose: 0
          100\n",
    "Name: Glucose, dtype: int64\n"
```

```
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  "#Se puede obtener la media, mediana y moda para\n",
  "mean_glucose = df['Glucose'].mean()\n",
  "median_glucose = df['Glucose'].median()\n",
  "mode_glucose = df['Glucose'].mode()\n",
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  "print(\"Mode_glucose:\",mode_glucose)"
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  "El promedio de glucosa fue de 120 \n",
  "La glucosa al centro es 117 \n",
  "La glucosa más repetida fue de 0, 1, 99 y 100"
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    "Median_outcome: 0.0\n",
    "Mode_outcome: 0
    "Name: Outcome, dtype: int64\n"
   ]
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  "#Outcome\n",
  "#Se puede obtener la media, mediana y moda para\n",
  "mean outcome = df['Outcome'].mean()\n",
  "median_outcome = df['Outcome'].median()\n",
  "mode_outcome = df['Outcome'].mode()\n",
  "print(\"Mean_outcome:\",mean_outcome)\n",
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  "print(\"Mode_outcome:\",mode_outcome)"
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  "El promedio de resultado fue de 0.3 \n",
  "El resultado al centro es 0 \n",
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```

```
31/10/25, 23:04
```

```
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    "Cabe mencionar que, en las discusiones en Kaggle, se menciona que el dato \"0\" significa que el
paciente es sano y el dato \"1\" significa que el paciente tiene diabetes. Por lo tanto, la mayoría
de los datos indican un paciente sano."
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       "0
              111\n"
       "2
              103\n",
       "3
               75\n",
       "4
               68\n",
       "5
               57\n",
       "6
               50\n",
       "7
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       "8
               38\n",
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       "10
               24\n",
       "11
               11\n",
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               10\n",
       "12
                9\n",
       "14
                2\n",
      "15
                1\n",
       "17
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   "# nombreDataframe.columna.value_counts()\n",
   "# nombreDataframe['columna'].value_counts()\n",
    "df.Pregnancies.value_counts()"
  ]
 },
```

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              17\n",
              17\n",
      "100
      "111
              14\n",
      "129
              14\n",
      "125
              14\n",
              ..\n",
      "191
               1\n"
      "177
               1\n"
      "44
               1\n"
      "62
               1\n",
      "190
               1\n",
      "Name: count, Length: 136, dtype: int64"
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    "output_type": "execute_result"
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            500\n"
      "1
            268\n",
      "Name: count, dtype: int64"
     ]
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    "output_type": "execute_result"
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   "# nombreDataframe.columna.value_counts()\n",
    "# nombreDataframe['columna'].value_counts()\n",
```

```
"df.Outcome.value_counts()"
  ]
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              135\n",
       "0
              111\n",
       "2
              103\n",
       "3
              75\n",
       "4
              68\n",
              57\n",
       "5
       "6
              50\n",
       "7
              45\n",
       "8
               38\n",
       "9
              28\n",
       "10
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"# nombreDataframe['columna'].value_counts()\n",
    "df[\"Pregnancies\"].value counts()"
   ]
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       "99
              17\n",
       "100
               17\n",
       "111
               14\n",
       "129
               14\n",
       "125
               14\n",
```

```
..\n",
       "191
                1\n",
       "177
                1\n"
       "44
                1\n"
       "62
                1\n"
       "190
                1\n",
       "Name: count, Length: 136, dtype: int64"
      ]
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   ],
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\n",
    "# nombreDataframe.columna.value_counts()\n",
    "# nombreDataframe['columna'].value_counts()\n",
    "df[\"Glucose\"].value_counts()"
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   "outputs": [
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       "0
             500\n"
             268\n",
       "1
       "Name: count, dtype: int64"
      ]
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\n",
   "# nombreDataframe.columna.value_counts()\n",
    "# nombreDataframe['columna'].value_counts()\n",
    "df[\"Outcome\"].value counts()"
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   "outputs": [],
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   ]
  },
```

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    "# Crear variable totalPregDiabetic que incluya la suma de las columnas Pregnancies y Outcome con
valor \"1\"\n",
    "# Mostrar el total por cada tamaño de familia\n",
    "conteo_preg = df[\"Pregnancies\"].count()\n",
    "conteo_outcome = (df[\"Outcome\"] == 1).sum()\n",
    "df[\"totalPregDiabetic\"] = df[\"Outcome\"] + (df[\"Pregnancies\"] == 1).astype(int)"
   ]
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Insulin BMI \\\n",
       "0
                                148
                                                72
                                                                 35
                                                                           0 33.6
                                                                                      \n",
                        6
       "1
                                                                 29
                                                                           0 26.6
                                                                                      \n",
                        1
                                 85
                                                 66
       "2
                                                                                      \n",
                                                                           0 23.3
                        8
                                183
                                                 64
                                                                 0
       "3
                                                                 23
                                                                          94 28.1
                        1
                                 89
                                                 66
                                                                                      \n"
       "4
                                                                         168 43.1
                                                                                      \n"
                        0
                                137
                                                40
                                                                 35
                                                                                      \n"
                                                                         . . .
                      . . .
                                . . .
                                                . . .
                                                                . . .
       "763
                                                                              32.9
                                                                                      \n"
                       10
                                101
                                                76
                                                                 48
                                                                         180
       "764
                        2
                                                70
                                                                 27
                                                                                      \n",
                                122
                                                                           0 36.8
       "765
                        5
                                121
                                                72
                                                                 23
                                                                         112 26.2
                                                                                      \n",
       "766
                                                 60
                                                                           0 30.1
                                                                                      \n",
                        1
                                126
                                                                 0
       "767
                                                                                      \n",
                        1
                                 93
                                                70
                                                                 31
                                                                           0 30.4
       "\n",
              DiabetesPedigreeFunction
                                         Age Outcome totalPregDiabetic \n",
       "0
                                                                            \n"
                                  0.627
                                          50
                                                     1
                                                                         1
                                                                            \n",
       "1
                                  0.351
                                          31
                                                     0
                                                                         1
       "2
                                  0.672
                                          32
                                                     1
                                                                         1
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                                          21
                                                     0
                                                                         1
       "4
                                  2.288
                                                     1
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                                                                         1
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                                    . . .
                                          . . .
       "763
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                                          63
                                                     0
       "764
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                                          27
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                                                                            \n",
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                                                     0
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     "Glucose
                                 148.000\n"
     "BloodPressure
                                  72.000\n",
     "SkinThickness
                                  35.000\n",
     "Insulin
                                   0.000\n",
     "BMI
                                  33.600\n",
                                   0.627\n",
     "DiabetesPedigreeFunction
     "Age
                                  50.000\n",
     "Outcome
                                   1.000\n"
     "totalPregDiabetic
                                   1.000\n",
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   },
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   "metadata": {},
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 }
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 "# df.iloc[i]: Accede a la fila en la posición i.\n",
  "# Acceder a la primera fila\n",
 "df.iloc[0]"
 ]
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     "
              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",
     "\n",
     " <thead>\n",
```

```
\n",
     \n",
...
     Pregnancies\n",
     Glucose\n",
     BloodPressure\n",
     SkinThickness\n",
•
     Insulin\n",
     BMI\n",
     DiabetesPedigreeFunction\n",
•
     Age\n",
•
     Outcome\n",
     totalPregDiabetic\n",
   \n",
  </thead>\n",
  \n",
   \langle tr \rangle \ n",
     0
n",
•
     6\n",
...
     148\n",
     72\n",
     35\n",
ш
     0\n",
     33.6\n",
     0.627\n",
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     50\n",
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     1\n",
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•
     66\n",
•
     29\n",
     0\n",
     26.6\n"
•
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•
     31\n",
     0\n",
•
     1\n",
•
   \n",
...
    n",
     2\n",
...
     8\n",
•
     183\n",
"
     64\n",
     0\n",
...
     0\n",
•
     23.3\n",
     0.672\n",
     32\n",
•
     1\n",
•
     1\n",
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"\n",
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   Pregnancies
           Glucose
                                             BMI
                                                \\\n",
"0
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                                   35
                                          0
                                            33.6
                                                 \n",
         6
                         72
"1
                                                 \n",
         1
               85
                         66
                                   29
                                            26.6
"2
         8
              183
                         64
                                    0
                                            23.3
                                                 \n",
   DiabetesPedigreeFunction Age Outcome totalPregDiabetic \n",
```

1

```
"0
                      0.627
                            50
    "1
                                                   1 \n",
                      0.351
                            31
                                    0
    "2
                      0.672
                            32
                                    1
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    "
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    "\n",
        .dataframe thead th {\n",
           text-align: right;\n",
        }\n",
    "</style>\n",
    "\n",
      <thead>\n",
        \n",
    11
         </n",
    ...
         Pregnancies\n",
         Glucose\n",
        \n",
      </thead>\n",
      \n",
        \langle tr \rangle \ n''
    ...
         0\n",
    ш
         6\n",
         148\n",
        \n",
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         1\n",
         1\n",
         85\n",
    •
        \n",
    •
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         2\n",
         8\n",
    •
         183\n",
    •
        \n",
        \n",
         3\n",
    ..
         1\n",
         89\n",
```

```
\n",
   ..
       \n",
   ...
         4\n",
         0\n",
         137\n",
   ...
       \n",
   •
       \n",
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         \...\n",
   •
         \...\n",
   •
       </tr>n",
   "
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         763
n",
   •
         10\n",
   •
         101\n",
       \n",
   "
       \n",
   •
         764
n",
   •
         2\n",
         122\n",
   "
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   ш
       \langle tr \rangle \ n'',
         765\n",
         5\n",
   ...
         121\n",
   •
       \n",
   "
        n",
         766\n",
   •
         1\n",
   •
         126\n",
       \n",
       \langle tr \rangle \ n'',
   •
         767\n",
   11
         1\n",
         93\n",
       \n",
     \n",
   "\n",
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   "0
                6
   "1
                       85\n",
                1
   "2
                      183\n",
                8
   "3
                       89\n",
                1
   "4
                0
                      137\n",
                      ...\n",
               . . .
   "763
                      101\n",
               10
                      122\n",
   "764
                2
                      121\n",
   "765
                5
   "766
                1
                      126\n",
   "767
                       93\n",
   "\n",
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"#Seleccionar columnas, indicando entre corchetes [nombreColumna, nombreColumna]\n",
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}],

```
"df[[\"Pregnancies\", \"Glucose\"]]"
]
},
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 "embarazos = df[df[\"Pregnancies\"] == 0]"
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    "\n",
        .dataframe thead th {\n",
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         \n",
    "
         Pregnancies\n",
    •
         Glucose\n",
    ...
         BloodPressure\n",
         SkinThickness\n",
         Insulin\n",
    ...
         BMI\n",
    "
         DiabetesPedigreeFunction\n",
         Age\n",
    ...
         Outcome\n",
    ш
         totalPregDiabetic\n",
        \n",
      </thead>\n",
      \n",
        \n",
         4\n",
         0\n",
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    ..
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n",
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   1\n",
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                                                                      188 30.8
                                             66
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                                                             17
                                                                      210 22.1
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                                                                       90
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      •
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•
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•
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•
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"
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     43.3\n",
...
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ш
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  \n",
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                                         Insulin
                                                BMI
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                                               34.3
           0
                189
                           104
                                      25
                                             0
                                                    \n",
"561
           0
                                      32
                                            274 41.3
                                                     \n",
                198
                            66
"595
                                                    \n",
           0
                            82
                                      14
                                            185 32.0
                188
"753
                                                     \n",
                181
                                      44
                                            510 43.3
"\n",
    DiabetesPedigreeFunction Age Outcome totalPregDiabetic \n",
"440
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0.502
                                        28
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\"Insulin\" y \"SkinThickness\", debido a su alto número de datos con \"0\" que deberían ser
\"null\". 374 y 227, respectivamente.\n",
    "3. Si comparas el rango de las variables (min-max), ¿todas están en rangos similares? Describe
sus rangos. Tomando en cuenta que el dato mínimo en \"Pregnancies\" es \"0\" y el máximo es \"17\",
no se encuentran en rangos similares. En cuanto a \"Glucose\", de igual manera, el dato mínimo es
\"0\", cuando este dato debería tomarse como \"null\". Debido a esto, en comparación con el dato
máximo de \"199\" el rango es grande. Respecto a \"Outcome\", los datos \"0\" y \"1\" se utilizan
como \"sano\" y \"diabético\", por esto, el rango no es relevante.\n",
    "4. ¿Existen variables que tengan datos atípicos? Describe cuáles sí o no. Algunos datos de
\"Insulin\", \"Glucose\", \"BMI\", \"BloodPressure\" y \"SkinThickness\" aparecen con \"0\" en lugar
de \"null\", lo que puede afectar los resultados.\n",
    "5. ¿Existe correlación alta entre variables? Describe algunas, indicando si es correlación
positiva o negativa. Hay una correlación positiva mayor a 0.50 entre las variables Age-
totalPregDiabetic (0.556) y Age-Pregnancies (0.544). Las correlaciones negativas no son relevantes."
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      "BloodPressure: Min=0, Max=122, Rango=122\n",
      "SkinThickness: Min=0, Max=99, Rango=99\n",
      "Insulin: Min=0, Max=846, Rango=846\n",
      "BMI: Min=0.0, Max=67.1, Rango=67.1\n",
      "DiabetesPedigreeFunction: Min=0.078, Max=2.42, Rango=2.342\n",
      "Age: Min=21, Max=81, Rango=60\n",
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31/10/25, 23:04
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