

```

import pandas as pd

df = pd.read_csv('../data/population_dynamics_clean.csv')

# Build the codebook
codebook = pd.DataFrame({
    'Variable': df.columns,
    'Description': [
        'Name of country',
        'Year of the observation',
        'Life expectancy, or the predicted number of years a newborn would live if current m
        'Under-5 mortality rate, or the probability (per 1000 live births) that a child will
        'Adolescent fertility rate, or the number of births per 1000 women from ages 15-19',
        'Secondary school enrollment rate, or the ratio of total secondary school enrollment
    ],
    'Type': df.dtypes.values,
    'Missing Values': df.isnull().sum().values,
    'Unique Values': df.nunique().values,
    'Mean': df.mean(numeric_only=True).reindex(df.columns).values,
    'Standard Deviation': df.std(numeric_only=True).reindex(df.columns).values,
    'Minimum': df.min(numeric_only=True).reindex(df.columns).values,
    'Maximum': df.max(numeric_only=True).reindex(df.columns).values
})

# Save to CSV
codebook.to_csv('../documentation/codebook.csv', index=False)

```