=== Dataset Structure === Shape (rows, columns): (350085, 67)

=== Column Check ===

Columns: ['iso\_code', 'continent', 'location', 'date', 'total\_cases', 'new\_cases', 'new\_cases\_smoothed', 'total\_deaths', 'new\_deaths', 'new\_deaths\_smoothed', 'total\_cases\_per\_million', 'new\_cases\_per\_million', 'new\_cases\_smoothed\_per\_million', 'total\_deaths\_per\_million', 'new\_deaths\_smoothed\_per\_million', 're production\_rate', 'icu\_patients', 'icu\_patients\_per\_million', 'hosp\_patients', 'hosp\_patients\_per\_million', 'wee kly\_icu\_admissions', 'weekly\_icu\_admissions\_per\_million', 'weekly\_hosp\_admissions', 'weekly\_hosp\_admissions\_per\_ million', 'total\_tests', 'new\_tests', 'total\_tests\_per\_thousand', 'new\_tests\_per\_thousand', 'new\_tests\_smoothed', 'new\_tests\_smoothed\_per\_thousand', 'positive\_rate', 'tests\_per\_case', 'tests\_units', 'total\_vaccinations', 'pe ople\_vaccinated', 'people\_fully\_vaccinated', 'total\_boosters', 'new\_vaccinations', 'new\_vaccinations\_smoothed', 'total\_vaccinations\_per\_hundred', 'people\_vaccinated\_per\_hundred', 'people\_fully\_vaccinated\_per\_hundred', 'total\_boosters\_per\_hundred', 'new\_vaccinations\_smoothed\_per\_million', 'new\_people\_vaccinated\_smoothed', 'new\_people\_v accinated\_smoothed\_per\_hundred', 'stringency\_index', 'population\_density', 'median\_age', 'aged\_65\_older', 'aged\_70\_older', 'gdp\_per\_capita', 'extreme\_poverty', 'cardiovasc\_death\_rate', 'diabetes\_prevalence', 'female\_smokers', 'male\_smokers', 'handwashing\_facilities', 'hospital\_beds\_per\_thousand', 'life\_expectancy', 'human\_development\_ index', 'population', 'excess\_mortality\_cumulative\_absolute', 'excess\_mortality\_cumulative', 'excess\_mortality', 'excess\_mortality\_cumulative\_per\_million']

=== Data Preview ===

	iso_code	continent	location	date	total_cases	new_cases	new_cases_smoothed	total_deaths	new_deaths	new_deaths_sm
0	AFG	Asia	Afghanistan	2020- 01-03	NaN	0.0	NaN	NaN	0.0	
1	AFG	Asia	Afghanistan	2020- 01-04	NaN	0.0	NaN	NaN	0.0	
2	AFG	Asia	Afghanistan	2020- 01-05	NaN	0.0	NaN	NaN	0.0	

## 3 rows × 67 columns

=== Missing Values Analysis === Null values per column: iso code 0 continent 16665 location 0 date 0 37997 total\_cases population excess mortality cumulative absolute 337901 337901 excess\_mortality\_cumulative 337901 excess mortality excess mortality cumulative per million 337901 Length: 67, dtype: int64

=== Handling Missing Values === Remaining rows after cleaning: 6759

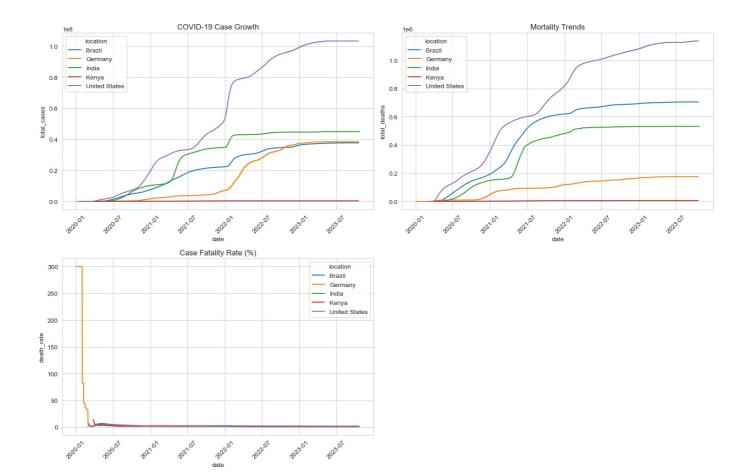
C:\Users\hp\covid19main.py:69: SettingWithCopyWarning:

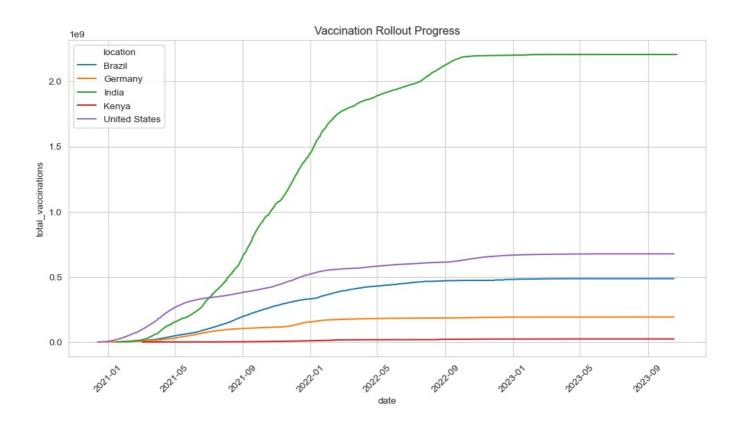
A value is trying to be set on a copy of a slice from a DataFrame.

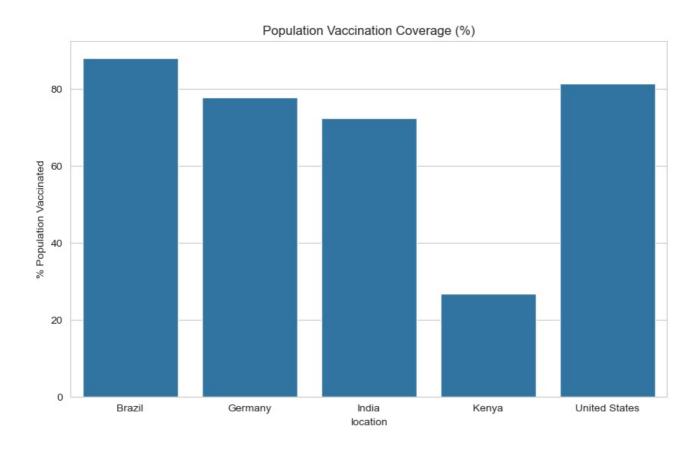
Try using .loc[row indexer,col indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#retu rning-a-view-versus-a-copy

df clean['death rate'] = (df clean['total deaths'] / df clean['total cases']) \* 100







	=== Analysis Complete ===
In [ ]:	
In [ ]:	
In [ ]:	
In [ ]:	

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