

## Question 15 : clé primaire = code\_pays

Entrée [218]:

```
pop_df = pop_df[['Code zone', 'Zone', 'Année', 'Valeur']]  
pop_df.rename(columns={'Code zone' : 'code_pays', 'Zone' : 'pays', 'Année' : 'annee', 'Vale
```

Entrée [219]:

```
chine_pop = pop_df[pop_df['pays'] == 'Chine']
```

Entrée [220]:

```
index_chine_pop = chine_pop.index
```

Entrée [221]:

```
pop_df.drop(index_chine_pop, inplace=True)
```

Entrée [222]:

```
pop_df.to_csv("population.csv", index=False)
```

## Question 16 : clé primaire = code\_pays+code\_produit

Entrée [223]:

```
data_pivot['Disponibilité alimentaire en tonnes'] = data_pivot['Disponibilité alimentaire e
```

Entrée [224]:

```
data_pivot.rename(columns={'Zone' : 'pays', 'Code zone' : 'code_pays', 'Produit' : 'produit',  
                          'Autres utilisations (non alimentaire)' : 'autres_utilisations',  
                          'Disponibilité alimentaire (Kcal/personne/jour)' : 'dispo_alim_kcal',  
                          'Disponibilité alimentaire en tonnes' : 'dispo_alim_tonnes',  
                          'Disponibilité de matière grasse en quantité (g/personne/jour)' : '  
                          'Disponibilité de protéines en quantité (g/personne/jour)' : 'dispo  
                          'Disponibilité intérieure' : 'dispo_int', 'Nourriture' : 'nourritur  
                          'Pertes' : 'pertes', 'Semences' : 'semences', 'Traitement' : 'trans
```

Entrée [225]:

```
q16_df = data_pivot[['code_pays', 'pays', 'produit', 'code_produit', 'origin', 'dispo_alim_
```

Entrée [226]:

```
q16_df['id'] = q16_df.code_pays.astype(str) + '_' + q16_df.code_produit.astype(str)
```

<ipython-input-226-402467dab23d>:1: 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#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))

```
q16_df['id'] = q16_df.code_pays.astype(str) + '_' + q16_df.code_produit.astype(str)
```

Entrée [227]:

```
q16_df.to_csv("dispo_alim.csv", index=False)
```

## Question 17 : clé primaire = code\_pays+code\_produit

Entrée [228]:

```
q17_df = data_pivot[['code_pays', 'pays', 'code_produit', 'produit', 'dispo_int', 'alim_animal']]
```

Entrée [229]:

```
q17_df['id'] = q17_df['code_pays'].astype(str) + '_' + q17_df['code_produit'].astype(str)
```

<ipython-input-229-e27aadd4ddb0>:1: 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#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))

```
q17_df['id'] = q17_df['code_pays'].astype(str) + '_' + q17_df['code_produit'].astype(str)
```

Entrée [230]:

```
q17_df.to_csv("equilibre_prod.csv", index=False)
```

## Question 18 : clé primaire = code\_pays

Entrée [231]:

```
q18_df = sous_alim_2013[['Code zone', 'Zone', 'Valeur']]
```

Entrée [232]:

```
q18_df.rename(columns={'Code zone' : 'code_pays', 'Zone' : 'pays', 'Valeur' : 'nb_personnes
```

C:\Users\denis\anaconda3\lib\site-packages\pandas\core\frame.py:4441: SettingWithCopyWarning:  
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))  
return super().rename(

Entrée [233]:

```
q18_df['annee'] = '2013'  
q18_df['nb_personnes'] = q18_df['nb_personnes'] * 10**6
```

<ipython-input-233-9a43056ae5bf>:1: 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#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))  
q18\_df['annee'] = '2013'

<ipython-input-233-9a43056ae5bf>:2: 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#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))  
q18\_df['nb\_personnes'] = q18\_df['nb\_personnes'] \* 10\*\*6

Entrée [234]:

```
chine_18 = q18_df[q18_df.pays == 'Chine']
```

Entrée [235]:

```
index_chine_18 = chine_18.index
```

Entrée [236]:

```
q18_df.drop(index_chine_18, inplace=True)
```

C:\Users\denis\anaconda3\lib\site-packages\pandas\core\frame.py:4308: SettingWithCopyWarning:

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

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))

```
    return super().drop(
```

Entrée [237]:

```
q18_df.to_csv("sous_nutrition.csv", index=False)
```