Read the dataset

In [1]:
```
import pandas as pd
data=pd.read_csv("Downloads//dataset - netflix1.csv")
data.head()
```

Out[1]:

	show_id	type	title	director	country	date_added	release_year	rating	duration	
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-13	90 min	D
1	s3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	TV-MA	1 Season	T
2	s6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	TV-MA	1 Season	-
3	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Brazil	9/22/2021	2021	TV-PG	91 min	F
4	s8	Movie	Sankofa	Haile Gerima	United States	9/24/2021	1993	TV-MA	125 min	

Exploratory Data Analysis

In [2]:
```
data.isnull().sum()
```

Out[2]:
```
show_id         0
type            0
title           0
director        0
country         0
date_added      0
release_year    0
rating          0
duration        0
listed_in       0
dtype: int64
```

In [3]:

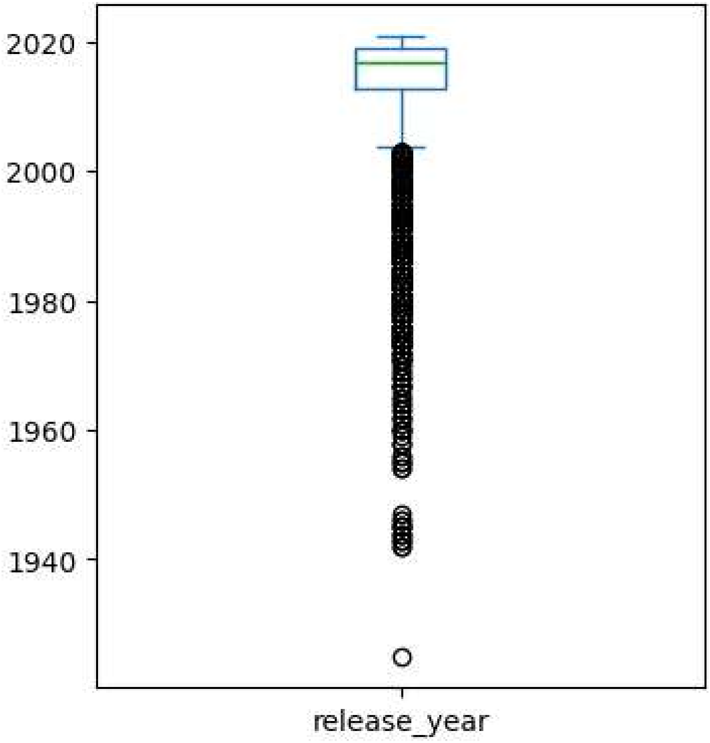
```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8790 entries, 0 to 8789
Data columns (total 10 columns):
 #   Column        Non-Null Count  Dtype 
---  ------        --------------  ----- 
 0   show_id       8790 non-null   object
 1   type          8790 non-null   object
 2   title         8790 non-null   object
 3   director      8790 non-null   object
 4   country       8790 non-null   object
 5   date_added    8790 non-null   object
 6   release_year  8790 non-null   int64 
 7   rating        8790 non-null   object
 8   duration      8790 non-null   object
 9   listed_in     8790 non-null   object
dtypes: int64(1), object(9)
memory usage: 686.8+ KB
```

Removing outliers

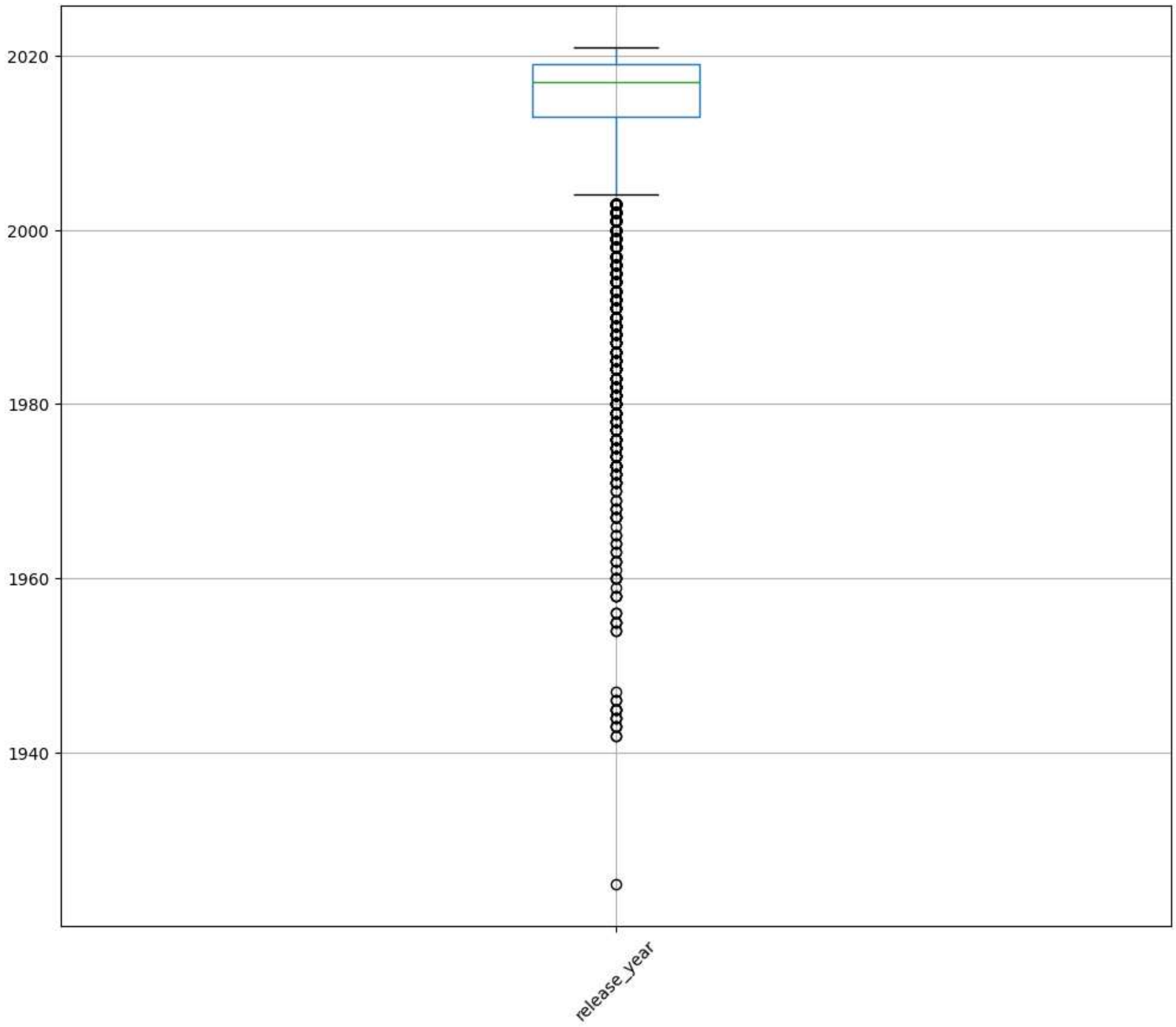
In [4]:

```
import matplotlib.pyplot as plt
data.plot(kind = "box" , subplots = True , figsize = (18,15) ,  layout = (3,4)
plt.show()
```



In [5]:
```
plt.figure(figsize=(12,10))
data.boxplot(rot=45)
```

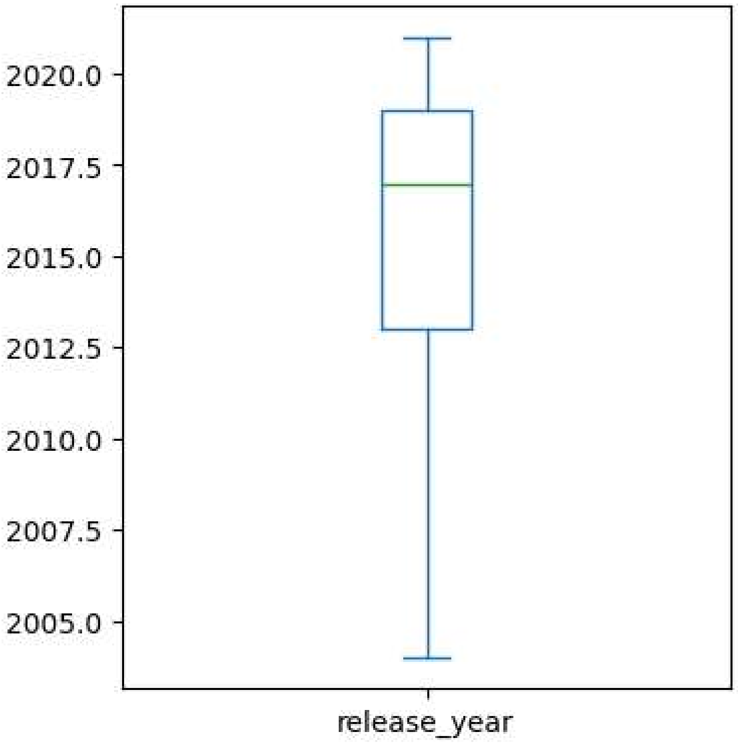
Out[5]:
```
<Axes: >
```



In [6]:
```
import numpy as np
def outlier_limits(col):
    Q3,Q1=np.nanpercentile(col,[75,25])
    IQR=Q3-Q1
    UL=Q3+1.5*IQR
    LL=Q1-1.5*IQR
    return UL, LL
for column in data.columns:
    if data[column].dtype != 'object':
        UL, LL = outlier_limits(data[column])
        data[column] = np.where((data[column] > UL) ,UL , np.where((data[colum
```

In [7]:

```
data.plot(kind = "box" , subplots = True , figsize = (18,15) ,  layout = (3,4)
plt.show()
```



In [8]:

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8790 entries, 0 to 8789
Data columns (total 10 columns):
 #   Column        Non-Null Count  Dtype  
---  ------        --------------  -----  
 0   show_id       8790 non-null   object 
 1   type          8790 non-null   object 
 2   title         8790 non-null   object 
 3   director      8790 non-null   object 
 4   country       8790 non-null   object 
 5   date_added    8790 non-null   object 
 6   release_year  8790 non-null   float64
 7   rating        8790 non-null   object 
 8   duration      8790 non-null   object 
 9   listed_in     8790 non-null   object 
dtypes: float64(1), object(9)
memory usage: 686.8+ KB
```