```
In [1]: import numpy as np
         import pandas as pd
         import random
         from random import choice
In [30]: import matplotlib.pyplot as plt
         import seaborn as sns
         1## Country
 In [3]:
         Country=[]
         for i in range(300):
             Country.append(choice(c))
 In [4]: 2## Earthquake type
E=["Tectonic", "Volcanic", "Induced"]
         Earthquake type=[]
         for i in range(300):
             Earthquake type.append(choice(E))
 In [5]: 3## Impact type
         I=["Low", "Moderate", "High"]
         Impact=[]
         for i in range(300):
             Impact.append(choice(I))
 In [6]: 4## Tsunami
         T=["Yes", "No"]
         Tsunami=[]
         for i in range(300):
             Tsunami.append(choice(T))
 In [7]: 5## Aftershocks
A=["Yes","No"]
         After shocks=[]
         for i in range(300):
             After_shocks.append(choice(A))
         6## Responsive time
 In [8]:
         R=["Immediate", "Hours", "Days"]
         Responsive time=[]
         for i in range(300):
             Responsive_time.append(choice(R))
In [9]: 7## Evacuation plan
E=["Yes", "No"]
         Evacuation_plan=[]
         for i in range(300):
             Evacuation_plan.append(choice(E))
In [10]: 8## preparedness_level
         P=["Low", "Medium", "High"]
         preparedness_level=[]
         for i in range(300):
             preparedness_level.append(choice(P))
In [11]:
         9## Magnitude
         M=[1.0,2.0,3.0,4.0,5.0,6.0,7.0,9.0]
         Mag=[]
         for i in range(300):
             Mag.append(random.choice(M))
In [16]: 10## Vector Scale
         def Vector_scale(update):
             if update== 1.0:
                 return "Micro"
             elif update== 2.0:
                 return "Minor"
             elif update== 3.0:
                 return "Light"
             elif update== 4.0:
                 return "Moderate"
             elif update== 5.0:
    return "Strong"
             elif update== 6.0:
                 return "Major"
             elif update== 7.0:
                 return "Great"
             elif update== 8.0:
                 return "Greater"
```

```
return "Greatest"
         Earthquake['Vector scale'] = Earthquake['Magnitude'].apply(Vector scale)
In [17]: 11## Property Damaged
         def Property Damaged(update):
             if update== "Micro"
                return "Negligible Damage"
             elif update== "Minor"
                return "Very Slight Damage"
            elif update== "Light"
                 return "Slightly Damage"
            elif update== "Moderate":
                return "Moderate Damage"
             elif update== "Strong":
                return "Severe Damage"
            elif update== "Major":
                 return "Slightly severe Damage"
             elif update== "Great":
                 return "Very severe Damage"
             elif update== "Greater":
                 return "Crictical"
             elif update== "Greatest":
                 return "Very crictical"
         Earthquake['Property_Damaged'] = Earthquake['Vector_scale'].apply(Property_Damaged)
In [12]: 12## Early warning system
         EA=["Receive warning", "Did'nt take action", "Did'nt receive warning"]
         Early_warning_system=[]
         for i in range(300):
            Early warning system.append(choice(EA))
In [13]: 13## seismic_activity
         s=["Minor","Moderate","Maximun"]
         SE=[]
         for i in range(300):
            SE.append(choice(s))
         14## Fault lines
In [14]:
         f=[1,2,3,4,5,6,7,8,9]
         fa=[]
         for i in range(300):
             fa.append(random.choice(f))
In [ ]:
In [18]: 15## Injuries
         def Injuries(update):
            if update== "Negligible Damage":
                 return "Acute Phase'
             elif update== "Very Slight Damage":
                return "Post Acute"
             elif update== "Slightly Damage":
                return "Minor Acute'
            elif update== "Moderate Damage":
                 return "Major injury'
            elif update== "Severe Damage":
            return "Lacerations"
elif update== "Slightly severe Damage":
                return "Multiple Fractures"
            elif update== "Very severe Damage":
                 return "Head Trauma
             elif update== "Crictical":
                 return "Collapsed"
             elif update== "Very crictical":
                 return "Serious"
         Earthquake["Injuries"] =Earthquake['Property_Damaged'].apply(Injuries)
        In [15]:
                                "Early warning":Early warning system, "seismic activity":SE, "Fault lines":fa})
In [33]: Earthquake.to csv("Earthquake.csv")
In [34]: Earthquake=pd.read csv(r"C:\Users\Del\Desktop\Data handling\Earthquake.csv")
In [19]: Earthquake
```

elif update== 9.0:

Out[19]:	(Country	Earthquake_type	Impact	Tsunami	Aftershocks	Responsive_time	preparedness_level	Magnitude	Evacuation_plan	Early_v	wa	
	0	Nigeria	Tectonic	Moderate	Yes	Yes	Days	Low	5.0	Yes	Did'nt	t re wa	
	1	India	Volcanic	Moderate	No	No	Hours	Medium	2.0	Yes		Re wa	
	2	Nigeria	Tectonic	Low	No	Yes	Immediate	Medium	4.0	No	Dio	id'n	
	3	China	Volcanic	Low	Yes	No	Immediate	High	1.0	Yes	Dio	id'n	
	4	Canada	Tectonic	Moderate	Yes	Yes	Days	Medium	6.0	Yes	Dio	id'n	
	295	Nepal	Volcanic	High	Yes	No	Hours	High	6.0	No	Dio	id'n ;	
	296	India	Tectonic	Moderate	Yes	No	Immediate	High	2.0	Yes	Dio	id'n ;	
	297	Nepal	Volcanic	High	Yes	Yes	Days	Low	7.0	Yes		R€ wa	
	298	China	Tectonic	High	No	No	Days	Low	5.0	Yes		Re wa	
	299	Dubai	Induced	Moderate	Yes	No	Days	High	1.0	No	Dio	id'n ;	
	300 ro	ws × 15	columns										
4												•	
In [45]:	Eartl	hquake.	rename({"Unnar	ned: 0":	"Sr_no.	"} , axis=1	, inplace = T	rue)					
In [46]:	Eartl	hquake.	columns										
Out[46]:	<pre>Index(['Sr_no.', 'Country', 'Earthquake_type', 'Impact', 'Tsunami',</pre>												
To [47].	Eart	'Eva 'Vec dtype	cuation_plan', tor_scale', 'F ='object')	'Early_ Property_	warning Damaged	', 'seismic ', 'Injurie	_activity', 'F	agnitude',					
In [47]:		'Eva 'Vec dtype hquake.	cuation_plan', tor_scale', 'F	'Early_ Property_	warning Damaged	', 'seismic ', 'Injurie	_activity', 'F	agnitude',					
In [48]:		'Eva 'Vec dtype hquake.	<pre>cuation_plan', tor_scale', 'F ='object') set_index("Sr_</pre>	'Early_ Property_ _no." , :	warning Damaged inplace	', 'seismic ', 'Injurie = True)	_activity', 'F s'],	agnitude', ault lines',					
	Eart	'Eva 'Vec dtype hquake. hquake	cuation_plan', tor_scale', 'F ='object')	'Early_ Property_ _no." , :	warning Damaged inplace	', 'seismic ', 'Injurie = True)	_activity', 'F s'],	agnitude',	evel Magnit	ude Evacuation	_plan Ea	ari:	
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In [48]:	Sr_no	'Eva 'Vec dtype hquake. hquake Coun	cuation_plan', tor_scale', 'F ='object') set_index("Sr_ ntry Earthquake_ mar Indi	'Early_ Propertyno." , : type Impured	warning Damaged inplace	', 'seismic ', 'Injurie = True) nami Aftersho	activity', 'F s'], ocks Responsive_f	agnitude', ault lines', time preparedness_N			No [
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In [48]:	Sr_no	'Eva 'Vec dtype hquake. hquake Coun Mayan Mayan Mayan	cuation_plan', tor_scale', 'F ='object') set_index("Sr_ ntry Earthquake_ mar Indo epal Indo mar Volce	'Early_ Propertyno." , : type Implement Implem	warning Damaged Inplace : pact Tsur High	', 'seismic ', 'Injurie = True) mami Aftersho No	activity', 'F s'], ocks Responsive_f Yes	agnitude', ault lines', time preparedness_l Days Mec	dium Low	1.0	No I	Dic	
In [48]:	Sr_no	'Eva 'Vec dtype hquake. hquake Coun Mayan Mayan Mayan	cuation_plan', tor_scale', 'F ='object') set_index("Sr_ ntry Earthquake_ mar Indi epal Indi mar Volc eria Volc	'Early_ Property_ no." , : type Implement uced uced anic anic	warning Damaged inplace : pact Tsur High Low	', 'seismic ', 'Injurie = True) nami Aftersho No No No No Yes	activity', 'F.s'], ccks Responsive_t Yes	agnitude', ault lines', time preparedness_N Days Mec Days Mec diate Mec	fium Low fium	1.0 9.0 1.0	No I	Dic	
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In [48]:	Sr_no () () () () () () () () () () () () ()	'Eva 'Vec dtype hquake County Mayan Nig Mayan Nig 4 Can	cuation_plan', tor_scale', 'F ='object') set_index("Sr_ ntry Earthquake_ mar Indi epal Indi eria Volc ada Indi Itlay Volc epal Indi epal Indi	r'Early_Property_ no.", income	warning Damaged inplace : pact Tsur High High High High High Low Prate Low	', 'seismic ', 'Injurie = True) nami Aftersho No No No Yes Yes No	activity', 'F.s'], ccks Responsive_f Yes	agnitude', ault lines', time preparedness_N Days Med Days diate Med Days I Days Med Days Med Days Med	dium Low dium High dium	1.0 9.0 1.0 2.0 6.0 9.0	No I No Ves No	Dic Dic	
In [48]:	Sr_no () () () () () () () () () () () () ()	'Eva 'Vec dtype hquake. hquake Coun Mayan	cuation_plan', tor_scale', 'F ='object') set_index("Sr_ ntry Earthquake_ mar Indi epal Indi eria Volc ada Indi Itlay Volc epal Indi U.k Indi	r'Early_Property_ no.", income	warning Damaged inplace : pact Tsur High High High High High Low Prate Low	', 'seismic ', 'Injurie = True) nami Aftersho No No No Yes Yes No	activity', 'F.s'], ccks Responsive_f Yes	agnitude', ault lines', time preparedness_h Days Med Days diate Med Days Med Days Med Days Med Days Med Days Med Days Med	dium Low dium High High dium	1.0 9.0 1.0 2.0 6.0 9.0	No I No I No I No Yes No Yes No No No No	Dic Dic	

In [49]: Earthquake.info()

300 rows × 15 columns

```
Int64Index: 300 entries, 0 to 299
           Data columns (total 15 columns):
            #
                 Column
                                         Non-Null Count
                                                            Dtype
            0
                 Country
                                         300 non-null
                                                             object
                 Earthquake type
                                         300 non-null
            1
                                                             object
            2
                                         300 non-null
                 Impact
                                                             object
            3
                 Tsunami
                                         300 non-null
                                                             object
            4
                 Aftershocks
                                         300 non-null
                                                             object
            5
                                         300 non-null
                 Responsive time
                                                             object
                 preparedness_level
                                         300 non-null
            6
                                                             object
            7
                 Magnitude
                                         300 non-null
                                                             float64
            8
                 Evacuation_plan
                                         300 non-null
                                                             object
            9
                 Early warning
                                         300 non-null
                                                             object
            10
                 seismic_activity
                                         300 non-null
                                                             object
            11
                 Fault lines
                                         300 non-null
                                                             int64
                 Vector scale
            12
                                         300 non-null
                                                             object
            13
                                         300 non-null
                 Property_Damaged
                                                             object
            14
                 Injuries
                                         300 non-null
                                                             object
           dtypes: float64(1), int64(1), object(13)
           memory usage: 37.5+ KB
In [51]:
           Earthquake["Magnitude"].max()
           9.0
           Earthquake[Earthquake["Magnitude"]==9.0]
                   Country Earthquake_type
                                              Impact Tsunami Aftershocks Responsive_time preparedness_level Magnitude Evacuation_plan Early_
           Sr_no.
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               11
                      USA
                                    Tectonic
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                                                           Yes
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                     Paris
                                    Induced Moderate
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                                                                                                        Medium
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               24
                    Turkey
                                    Tectonic
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               29 Scotland
                                    Induced Moderate
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               47
                      India
                                    Volcanic
                                                 Low
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               48
                    Nigeria
                                    Induced
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               50
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                     arabia
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               55
                                    Volcanic Moderate
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               80
                     Paris
                                    Volcanic Moderate
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               86
                   Canada
                                    Tectonic
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               92
                   Monaco
                                    Volcanic
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              113
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                                    Tectonic Moderate
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              137
                      Itlay
                                    Tectonic
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                                                                                                                                              Did'r
              140
                      India
                                    Tectonic Moderate
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                                                                                   Immediate
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              145
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                     Nepal
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              156 Australia
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                                    Volcanic
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              159
                      USA
                                    Volcanic
                                                 High
                                                           Yes
                                                                       Yes
                                                                                       Hours
                                                                                                           High
                                                                                                                       9.0
                                                                                                                                        No
              179
                     Dubai
                                    Volcanic
                                                 High
                                                                       Yes
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                                                                                                                                              Did'r
              188
                     Nepal
                                    Volcanic Moderate
                                                           Yes
                                                                       Yes
                                                                                       Days
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                                                                                                                       9.0
                                                                                                                                        No
```

D

D

Yes

Hiah

9.0

<class 'pandas.core.frame.DataFrame'>

Out[51]:

In [53]:

Out[53]:

194

U.k

Tectonic Moderate

No

No

Hours

	206	Nigeria	Tectonic	High	Yes	No	Days	Low	9.0	No	D
	224	China	Volcanic	High	No	Yes	Days	Low	9.0	Yes	D
	228	U.k	Induced	Low	No	Yes	Days	Medium	9.0	Yes	D
	230	Japan	Volcanic	Moderate	Yes	No	Immediate	Medium	9.0	No	Did'r
	244	Nigeria	Induced	High	No	Yes	Immediate	Low	9.0	No	D
	250	Nepal	Induced	High	No	Yes	Immediate	Medium	9.0	No	D
	253	Turkey	Tectonic	Low	Yes	No	Immediate	Medium	9.0	Yes	Did'r
	259	Monaco	Volcanic	Low	Yes	Yes	Immediate	Medium	9.0	Yes	D
	280	China	Induced	High	No	Yes	Days	Medium	9.0	No	Did'r
	293	arabia	Volcanic	High	No	No	Immediate	High	9.0	No	D
	295	Itlay	Volcanic	Moderate	Yes	No	Days	Medium	9.0	Yes	Did'r
4											
In [55]:	Earthq	uake[" <mark>Magnit</mark>	ude"].valı	ue_counts	()						
Out[55]:	1.0 2.0 3.0 5.0 9.0 7.0 6.0 4.0	44 41 40 35 35 34 30		-4							
T- [20]		Magnitude, duake["Early			ints()						
In [20]:		e warning		. va tue_cot 98	ints()						
Out[20]:	Did'nt Did'nt	take action receive war Early_warnin	ning 9	98 94							
In [21]:	Earthq	uake["Injuri	es"].valu	e_counts())						
Out[21]:	Head T Lacera	cute Phase injury s le Fractures rauma	53 41 41 36 35 32 32 30 ype: int64	1							
In [22]:	Earthq	uake["Vector	_scale"].	value_cour	nts()						
Out[22]:	Light Minor Micro Modera Greate Major Great Strong Name:	st 35 32 32	, dtype: ː	int64							
In [23]:	Earthquake["Property_Damaged"].value_counts()										
Out[23]:	Very S Neglig Modera Very c Slight Very s Severe	ly Damage light Damage ible Damage te Damage rictical ly severe Damage evere Damage Damage Property_Dam	4: 36 35 mage 32 32	1 1 5 5 2 2							

Yes

No

Days

Hours

Medium

Low

9.0

Turkey

Japan

198

200

In [24]. Farthquake

Volcanic

Tectonic

High

Low

Yes

Did'r

Yes

an [an] : Eurenquare

Tectonic Moderate

Volcanic Moderate

Yes

Out[24]:

0 Nigeria

	2	Nigeria	Tectonic	Low	No	Yes	Immediate	Medium	4.0	No	Did'n		
	3	China	Volcanic	Low	Yes	No	Immediate	High	1.0	Yes	Did'n		
	4	Canada	Tectonic	Moderate	Yes	Yes	Days	Medium	6.0	Yes	Did'n		
	295	Nepal	Volcanic	High	Yes	No	Hours	High	6.0	No	Did'n		
	296	India	Tectonic	Moderate	Yes	No	Immediate	High	2.0	Yes	Did'n		
	297	Nepal	Volcanic	High	Yes	Yes	Days	Low	7.0	Yes	Re wa		
	298	China	Tectonic	High	No	No	Days	Low	5.0	Yes	Re wa		
	299	Dubai	Induced	Moderate	Yes	No	Days	High	1.0	No	Did'n ;		
;	300 rc	ows × 15	columns										
1											b		
In [25]:	Eart	hquake["Earthquake_ty	/pe"].val	ue_counts()							
UUT[25]:		anic onic	103 101 96 quake_type, dt	:ype: int0	54								
In [26]:	Eart	:hquake["Country"].val	lue_count	s()								
	Nepa		19										
	USA U.k Scot Turk Duba Mona Oman Itla Nige Name	n a da s ia ia a nmar ralia land ey i co y ria : Count	18 18 17 17 16 16 16 16 15 15 15 14 14 14 13 13 13 13 17 10 ry, dtype: int	64									
				wake tyne	' 'Impac	t' 'Tsunam	i' 'Δftershock	s ¹					
Out[27]:	<pre>Index(['Country', 'Earthquake_type', 'Impact', 'Tsunami', 'Aftershocks',</pre>												
In [31]:	prin	ıt <mark>(</mark> Earth	er of country quake["Evacuat ot(x="Evacuati	ion_plan	"].value_c	ounts())	tte="Set1")						
	Number of country with evacuation plan Yes 164 No 136 Name: Evacuation_plan, dtype: int64 <axes: ,="" xlabel="Evacuation_plan" ylabel="count"></axes:>												

Country Earthquake_type Impact Tsunami Aftershocks Responsive_time preparedness_level Magnitude Evacuation_plan Early_wa

Days

Hours

Yes

Low

Medium

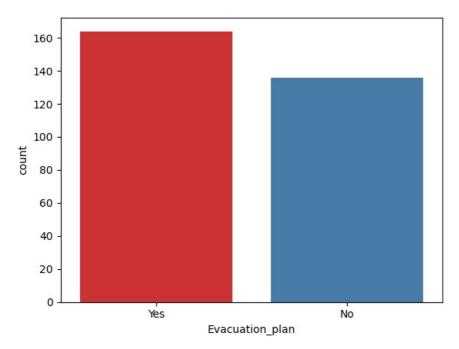
5.0

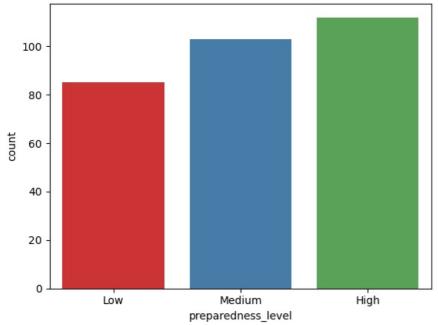
Did'nt re

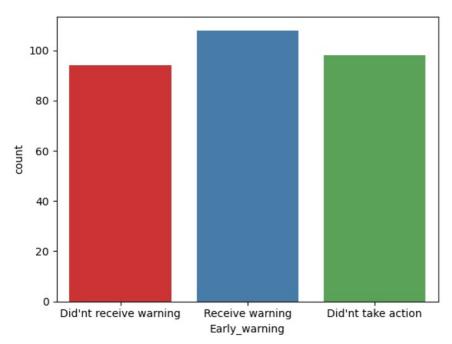
Wá Rε

W٤

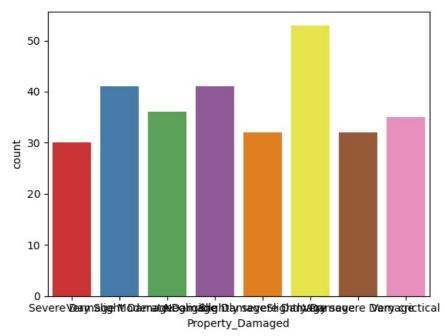
Yes





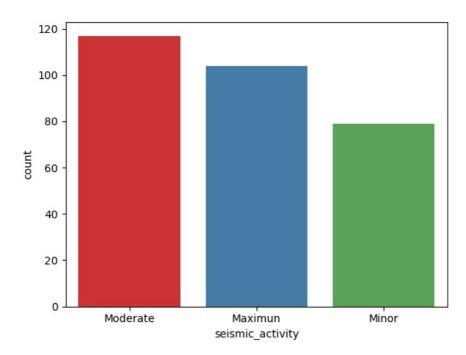


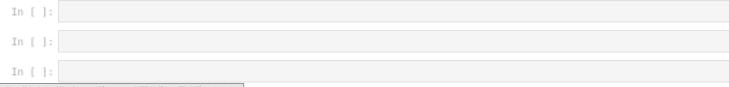
```
In [36]: print("Number of Property_Damaged")
         print(Earthquake["Property_Damaged"].value_counts())
         sns.countplot(x="Property_Damaged",data=Earthquake,palette="Set1")
         Number of Property_Damaged
         Slightly Damage
         Very Slight Damage
                                    41
                                    41
         Negligible Damage
         Moderate Damage
                                    36
         Very crictical
                                    35
                                    32
         Slightly severe Damage
         Very severe Damage
                                    32
         Severe Damage
         Name: Property_Damaged, dtype: int64
         <Axes: xlabel='Property_Damaged', ylabel='count'>
Out[36]:
```



```
In [38]: print("Number of seismic_activity")
    print(Earthquake["seismic_activity"].value_counts())
    sns.countplot(x="seismic_activity",data=Earthquake,palette="Set1")

Number of seismic_activity
    Moderate 117
    Maximun 104
    Minor 79
    Name: seismic_activity, dtype: int64
    <Axes: xlabel='seismic_activity', ylabel='count'>
```





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