Exploratory Data Analysis - facebook Data

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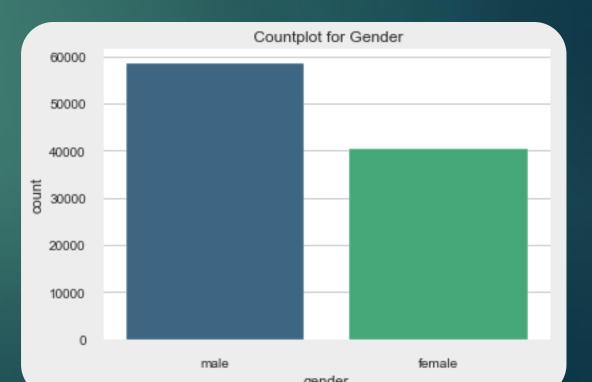
User Count –Gender Wise

Males user count are more than female

58552 user belongs to male

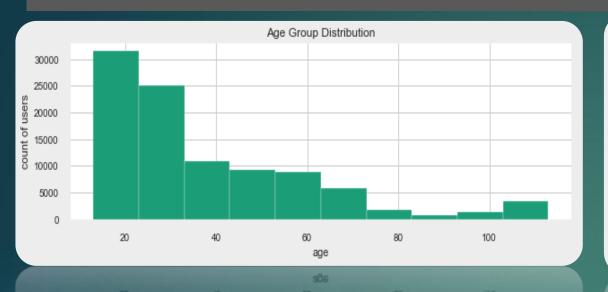
40241 user belongs to female

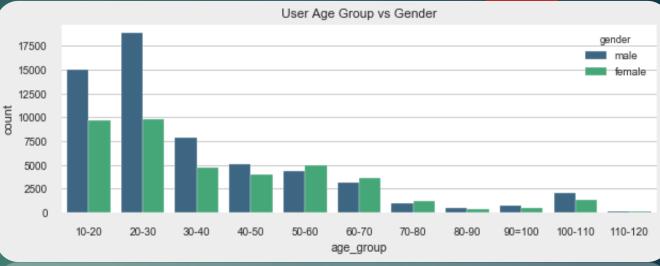
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]: fb['gender'].value_counts()
]: male 58552
female 40241
Name: gender, dtype: int64
```



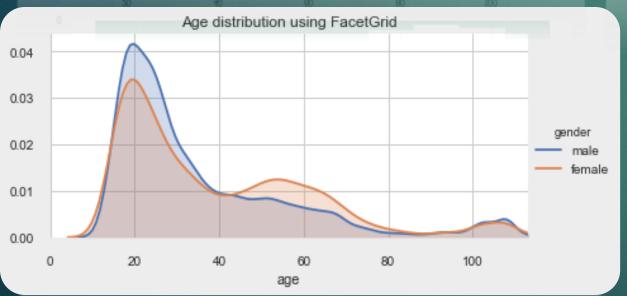
Age Distribution

Age Group vs Gender





age_group



Most of the user belongs to 20-30 age group.

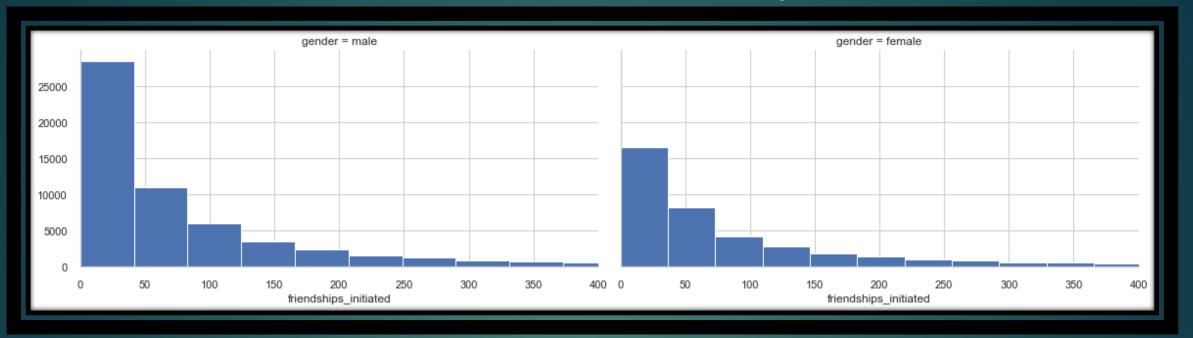
Male users are more in most of the age group however female users belonging to age group 50-70 are slightly more than male.

There are declining trend in user after age 30.

Minimum user age is 13.

Maximum user age is 113

Who Initiated Friendship more?

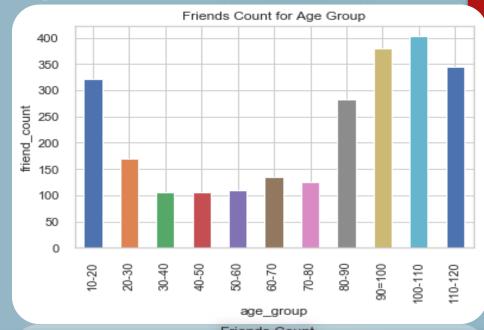


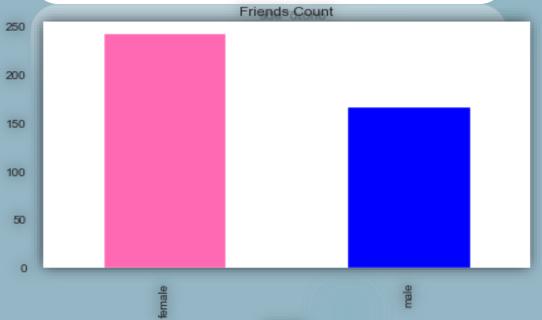
Males seems to be more open and initiated friendship more than female. It could be because male user count are more than female as well.

fb.groupby('gender').friendships_initiated.describe()								
	count	mean	std	min	25%	50%	75%	max
gender								
female	40241.0	113.933575	195.161156	0.0	19.0	49.0	125.0	3654.0
male	58552.0	103.105325	184.316359	0.0	15.0	44.0	111.0	4144.0

FRIENDS COUNT

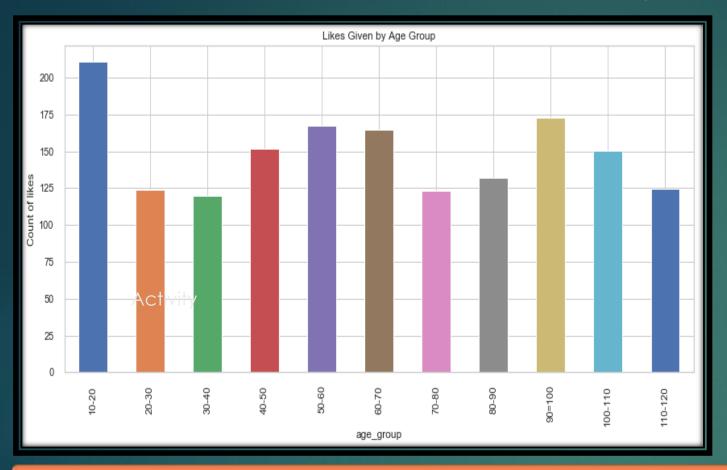
FRIENDS COUNT
FEMALE HAS MORE FRIENDS
THAN MALE
AGE GROUP 10-20 HAS MORE
FRIENDS AND THERE'S STEEP
DECLINED FROM AGE 20-80
AGE GROUP 100-110 HAS
MAXIMUM FRIENDS.





gender

Activities



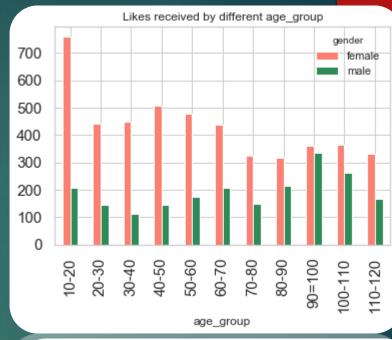


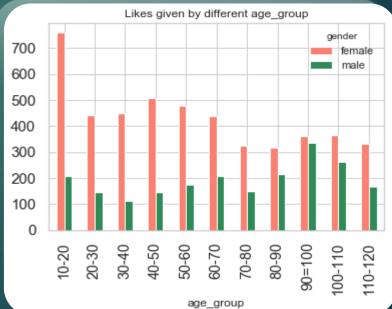
Maximum likes is given by age group 10-20

There's slight decline in activity for age group between 20-40

Female user gave more likes, this shows female user are more active than male

Female user received more likes than male across all the age groups



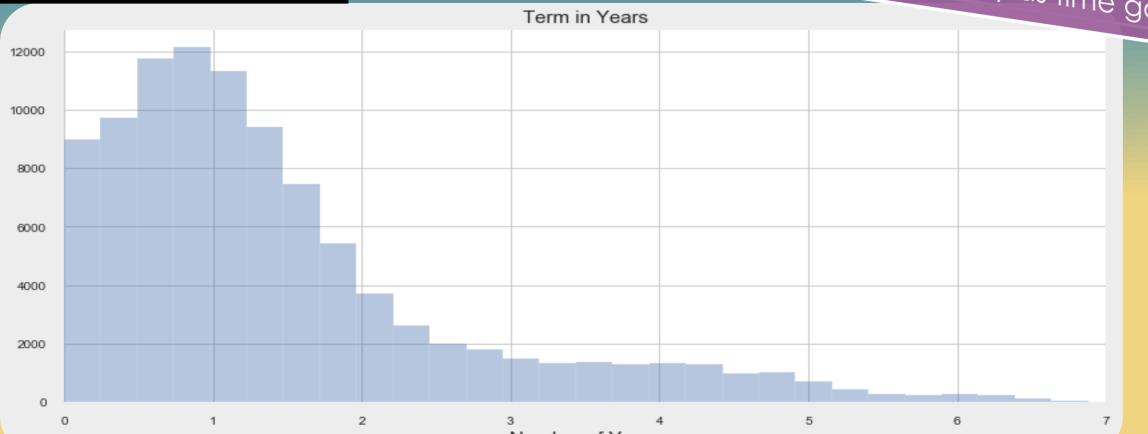


fb.tenure.describe() count 98793,000000 535,828682 mean std 454,228764 min 0.000000 25% 226.000000 50% 412,000000 75% 673,000000 3139,000000 max Name: tenure, dtype: float64

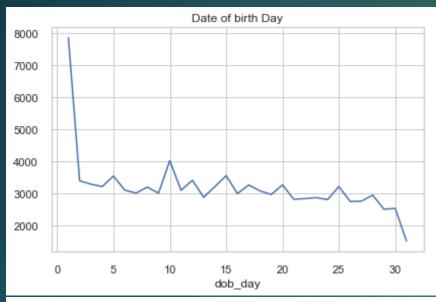
Tenure

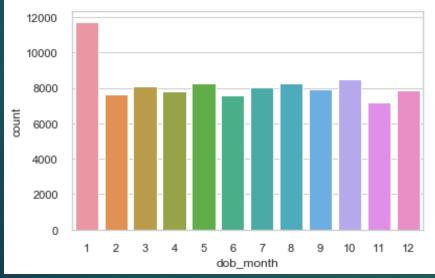
This plot shows user mostly are active for 1-2yrs. New user are more active than old user.

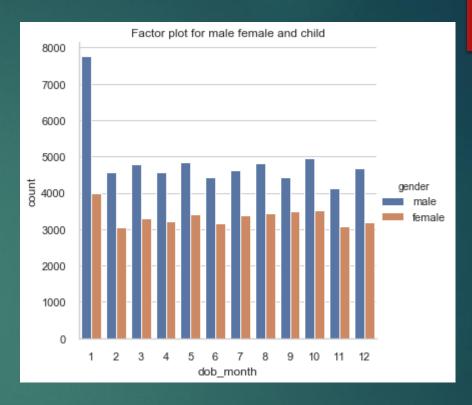
There's steep decline in activity as time goes



Which day has maximum birthday







- This plot shows most of the users registered their birthday as 1st Jan both for male & female
- Count for rest of the month are fairly the same

Thankyou