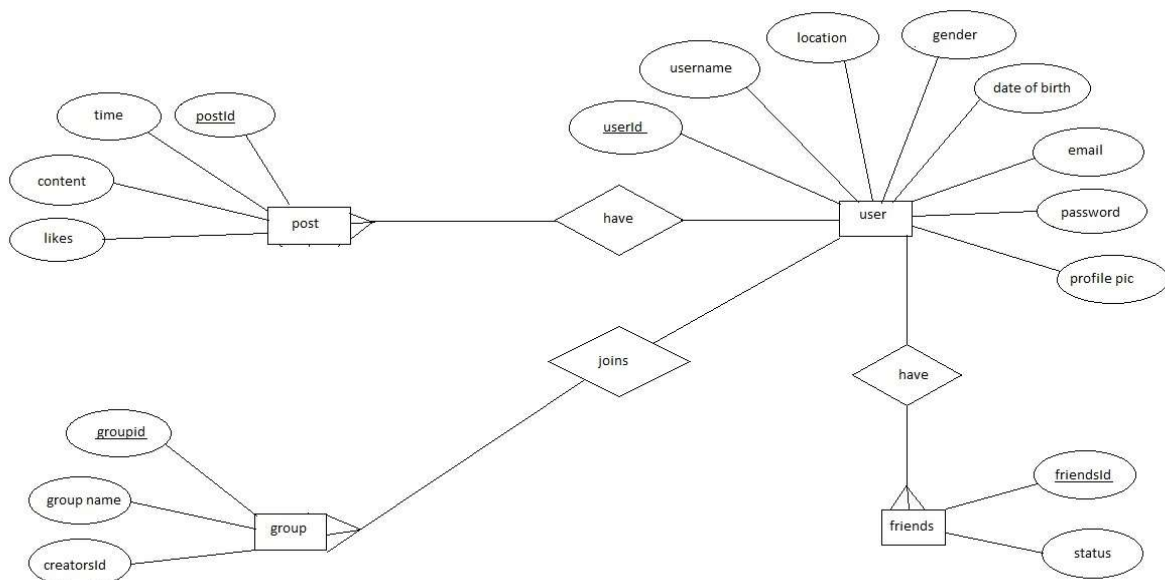


## Normalization

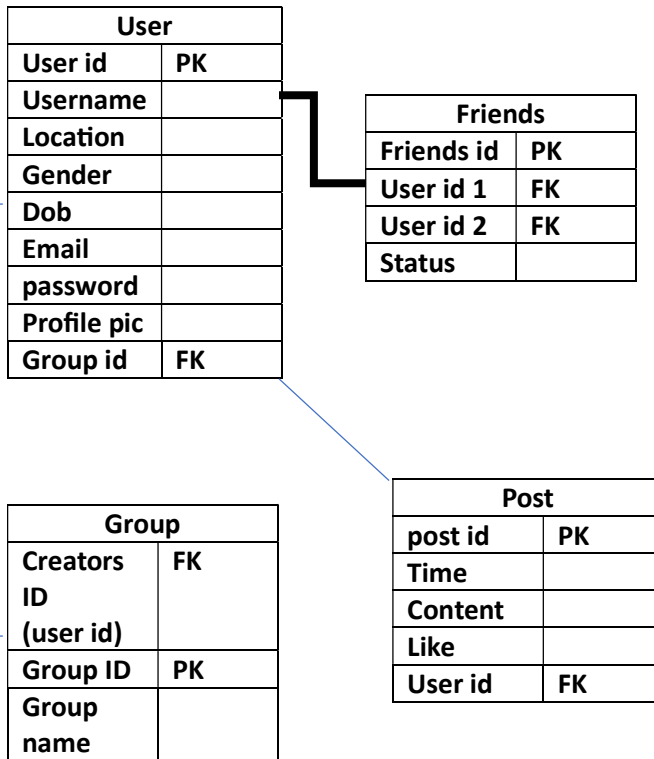
- Roll No.4 :  
Prasad Lomte
- Roll No.7:  
Niranjan Kumbhar
- Roll No.8:  
Nisha Bodakhe

### 1.ER



### 2.SCHEMA (chatting group-SMP)

## Normalization



Contd.....

### *Conditions for 1NF*

- One cell = one value

## Normalization

- There should not be multiple columns with same attributes

### *Conditions for 2NF*

- Must satisfy **1NF** condition
- Non key attributes depend on primary key (**independency**)
- No partial dependency
- Partial key dependent on composite key

### *Conditions for 3NF*

- Must satisfy **2NF**
- There should not be transitive functional dependency
- Non-key value does not show dependency on other non-key value

### *Boycc-Codd Normal Form (BCNF) ( if more than 1 composite key appeared)*

- $X \rightarrow y$  then x will be candidate key
- One of the key should be candidate key or super key
- It should satisfy **3NF**

User	
User id	PK
name	
Location	
Gender	
Dob	
Email	
password	
Profile pic	
Group id	FK
Friends ID	FK

// comments: satisfy 1NF

// comments: satisfy 2NF

// comments: satisfy 3 NF

## Normalization

Friends	
Friends id	PK
User id 1	FK
User id 2	FK
Status	

Friends	
Friends id	PK
Status	

// comments: satisfy 1NF  
// comments: satisfy 2NF  
// comments: satisfy 3 NF

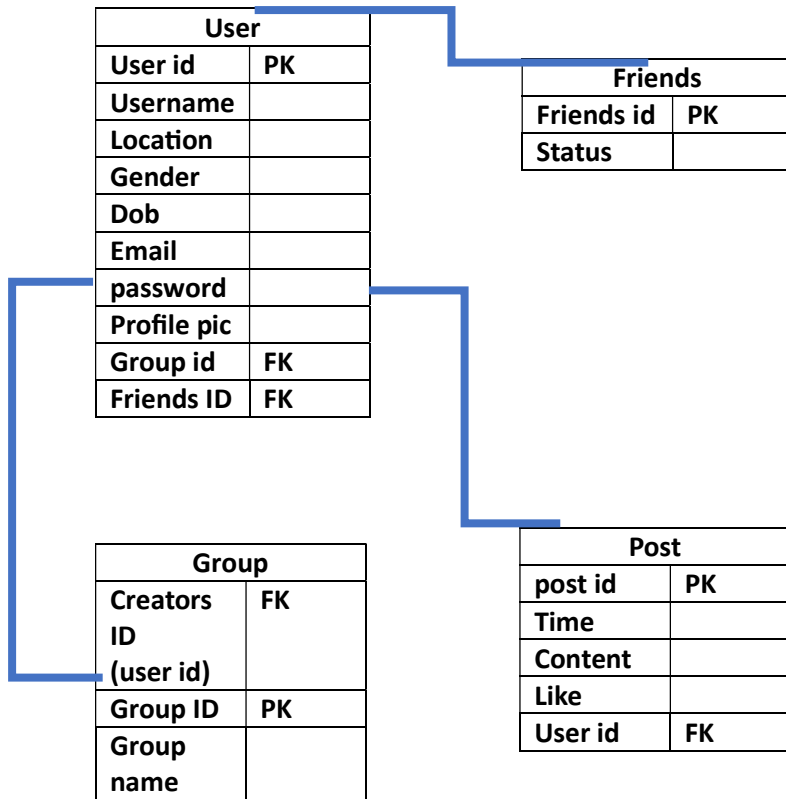
Group	
Creators ID (user id)	FK
Group ID	PK
Group name	

// comments: satisfy 1NF  
// comments: satisfy 2NF  
// comments: satisfy 3 NF

Post	
post id	PK
Time	
Content	
Like	
User id	FK

// comments: satisfy 1NF  
// comments: satisfy 2NF  
// comments: satisfy 3 NF

## Normalization



## Normalization