National University of Computer and Emerging Sciences



In-Lab 6 Exercise

"Nested Queries"

Database Systems

Schema:

For this exercise use the following schema, the script to create this schema and populate data is given in Twitter.SQL file.

	UserName	е	Age	Cou	intry			
1	Ali123		18		kistan			
2	Aliza		40	US	Α		users	
3	Aysha		19	Iran	1		users	
4	DonaldTr	unp	60	US	Α			
5	ImranKha		55		kislan			
6	Natasha		28	US				
7	Samuel		37		stralia			
8	Sara		30	Iran				
	Fallenned	laaabla.		F-I-				
	·	FollowerUserName		Followed UserName				
1	Ali123		Donald Trump		uh	Following		
2	Aliza		Ali123					
3	Niza		DonaldTrump					
4	Aliza		Imran Khan			Tollowing		
5	Aysha			Imran Khan				
6		naldTrump			n Khan			
7	Imran Khan		DonaldTrump					
8	Natasha			ImranKhan				
9	Samuel			DonaldTrump				
10	Samuel			Imran Khan				
11	Sara			Don	aldTrur	mp		
	HashtagID	ag						
1	1	#Cens						
2	2		sique Mat	in				
3	3		seCritique					
4	4	#pirate	age					
5			Movies					
	UserName InterestID							
1	Ali123	10						
2	Ali123	11						
3	Ali123	13		user interests				
4	Ali123	14						
5	Aliza	10						
6	Aliza	11						
7	Aliza	13						
8	Aliza	14 10						
9	ImranKhan							
	InterestID							
1	10	Politics						
2	11	Sports						
3	12	Movies						
5	13	Educat						
	14	Video (ia					

	TweetID	LikeByUserName		LikeOnDate			
1	1	Aliza		2017-02-02	likes		
2	2	Aliza		2017-02-02			
TweetID		UserName	Text				
1	1	Ali123	Pakis	Pakistan's largest-ever population #Census start			
2	2	lmran Khan	Pakis				
3	3	Sara	Take	come to our door for #Cens			
4	4	Imran Khan	Pakis				
5	5	Sara	Only				
6	6	Imran Khan	Quan				
7	7	Sara	Over	1 million decrypte	ed Gmail and Yahoo accou		
8	8	Sara	Hamy				
9	9	DonaldT	LSDe				
10	10	Imran Khan	Forre				
11	12	DonaldT	Quan	nd tu te lèves 3h	en avance (littéralement) po		
12	13	Sara	#Dru	gMovies			
13	14	DonaldT	Quan	nd tu te lèves 3h	en avance (littéralement) po		
14	15	Aliza	Quan	nd tu te lèves 3h	en avance (littéralement) po		

Exercise:

- 1. Give name of the user who has the highest number of followers.
- 2. Give name of the user who has second highest followers.
- 3. List names of all the users who have never tweeted.
- 4. List all the hashtags and usernames and number of times that user used that hashtag.
- 5. Find the users who have never used the hashtag #Census.
- 6. List all the usernames that have never been followed.
- 7. Find the most common interest of users. (The interest with largest number of users). Also find the least common interest.
- 8. Show total tweets per country. The result should be in order of country name.
- 9. List names of all the users whose number of tweets is more than average number of tweets per user.
- 10. Give the name of the users who have at least one follower from Pakistan.