



National University
Of Computer and Emerging Sciences

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Class: DataBase & Management System

Section: BS(SE) 4A

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DB- lab04.sql - DESKTOP-9NCPQBQ\SQLEXPRESS01.twitter (DESKTOP-9NCPQBQ\hp (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

- DESKTOP-9NCPQBQ\SQLEXPRESS01
 - Databases
 - Security
 - Server Objects
 - Replication
 - Management
 - XEvent Profiler

SQLQuery1.sql - not connected*

```

---q11
--List names of all the users whose number of tweets is more than average number of tweets per user.
SELECT UserName, NumTweets
FROM (
  SELECT UserName, COUNT(TweetID) AS NumTweets
  FROM Tweets
  GROUP BY UserName
) AS UserTweetCounts
WHERE NumTweets > (
  SELECT AVG(NumTweets) AS AvgTweets
  FROM (
    SELECT COUNT(TweetID) AS NumTweets
    FROM Tweets
    GROUP BY UserName
  ) AS AvgPerUser
);

---q12
--Give the name of the users who have at least one follower from Pakistan.

```

104 %

Results Messages

	UserName	NumTweets
1	DonaldTrump	3
2	ImranKhan	4
3	Sara	5

Query executed successfully.

DESKTOP-9NCPQBQ\SQLEXPRESS01... DESKTOP-9NCPQBQ\hp (54) twitter 00:00:00 3 rows

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SQLQuery1.sql - not connected*

```

SELECT COUNT(TweetID) AS NumTweets
FROM Tweets
GROUP BY UserName
) AS AvgPerUser
);

---q12
--Give the name of the users who have at least one follower from Pakistan.
SELECT DISTINCT FollowedUserName
FROM Following
WHERE FollowerUserName IN (
  SELECT UserName
  FROM Users
  WHERE Country = 'Pakistan'
);

---q13
--Show the interest ID and description of interest with the most number of users.
SELECT TOP 1 InterestID, Description AS Most_Common_Interest, CountInterest
FROM (
  SELECT I.InterestID, I.Description, COUNT(*) AS CountInterest

```

104 %

Results Messages

	UserName	NumTweets
1	DonaldTrump	3
2	ImranKhan	4
3	Sara	5

Query executed successfully.

DESKTOP-9NCPQBQ\SQLEXPRESS01... DESKTOP-9NCPQBQ\hp (54) twitter 00:00:00 3 rows

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Query Editor

```
FROM Following
WHERE FollowerUserName IN (
    SELECT UserName
    FROM Users
    WHERE Country = 'Pakistan'
);
---q13
---Show the interest ID and description of interest with the most number of users.
SELECT TOP 1 InterestID, Description AS Most_Common_Interest, CountInterest
FROM (
    SELECT I InterestID, I Description, COUNT(*) AS CountInterest
    FROM Interests I
    JOIN UserInterests UI ON I InterestID = UI InterestID
    GROUP BY I InterestID, I Description
) AS InterestCounts
ORDER BY CountInterest DESC;
```

104 %

Results Messages

	InterestID	Most_Common_Interest	CountInterest
1	10	Politics	3

Query executed successfully.

DESKTOP-9NCPQBQ\SQLEXPRESS01... DESKTOP-9NCPQBQ\hp (54) twitter 00:00:00 1 rows

Ready Ln 193 Col 2 Ch 2 OVR

20° ENG INTL 7:53 PM 07/03/2024