

# Big Data Hadoop, Module 5: Assignment 2

#### **Problem statement:**

You work for Spring Analytics Pvt. Ltd., a company that specializes in Big Data Analytics. Your organization's latest client is a well-known social media enterprise. Based on the immense amount of data generated in the company, it is planning a targeted advertising campaign for its benefactors. Your firm is provided with this dataset, and it has put forth a set of queries based on that dataset. Use your data warehousing expertise in Apache Hive to help your client with its use case.

#### Link for the dataset and resources:

https://drive.google.com/file/d/1BzPFGO\_vdLtF\_bpApo9cssMKliqAyqQe/view?pli=1

#### **Instruction:**

You have to use the **Facebook Data** folder to get the .csv dataset.

### Fields in the dataset:

The following list represents the column names and their descriptions:

userid: The unique identification number of an account

age

dob day

dob\_year

dob month

gender

tenure: The number of days since the account has been created





friend\_count: The current number of friends added to the account

friendships\_initiated: The total friend requests sent

likes: The number of likes done by the user

*likes\_received*: The number of likes received by the user

mobile\_likes: The amount of mobile application likes done by the user

mobile\_likes\_received: The number of likes received by the user from other mobile users

www likes: The amount of web browser likes done by the user

www\_likes\_received: The amount of web browser likes received by the user

## Tasks to be completed:

1. What is the average age of a social media account user?

- 2. Does the social media platform have a higher number of male users, female users, or gender undisclosed users?
- 3. In male users, on average, does the age demographic of 13–25 have more, or less, friends than the demographic of 26–50? Assess this with appropriate statistical reasoning
- 4. In female users, on average, does the age demographic of 13–25 have more, or less, friends than the demographic of 26–50? Assess this with appropriate statistical reasoning
- 5. Which gender is more likely to send out a higher number of friend requests on average?
- 6. With the age demographics of 13–25, 26–35, and 36–50 as focal points, evaluate the comparison **between mobile application usage and web browser usage** when accessing the social media website. Use this to determine if mobile phones have indeed taken over the digital marketspace

