GetMega Assignment
Business Analytics Internship

Name: Deepak Kumar Mandal
Date: 25 April 2021

Email: dkmiitg@gmail.com
Contact: +91-7764933459

SQL Assignment

Q1, Q2 Link: https://drive.google.com/file/d/1dnelMWqp3HA7BnrRceKQ1x5cOHw_Yxr3/view?usp=sharing
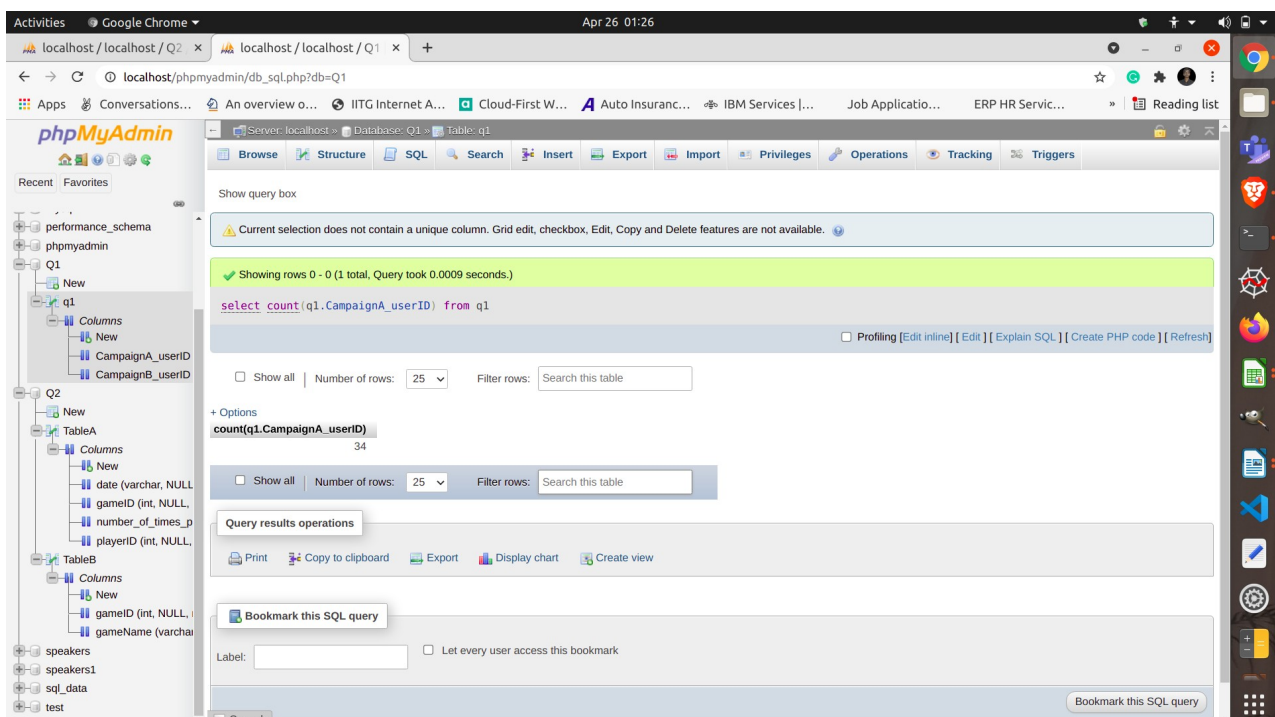
Q1.

Ans:-

Q1 database link:
https://drive.google.com/file/d/1MW7UmSPCmtB1qc41RDPVOFxYmWoY6dwz/view?usp=sharing

Here Q1 is the name of the database
& q1 is the table name, which has two column as CampaignA_userID , and CampaignB_userID
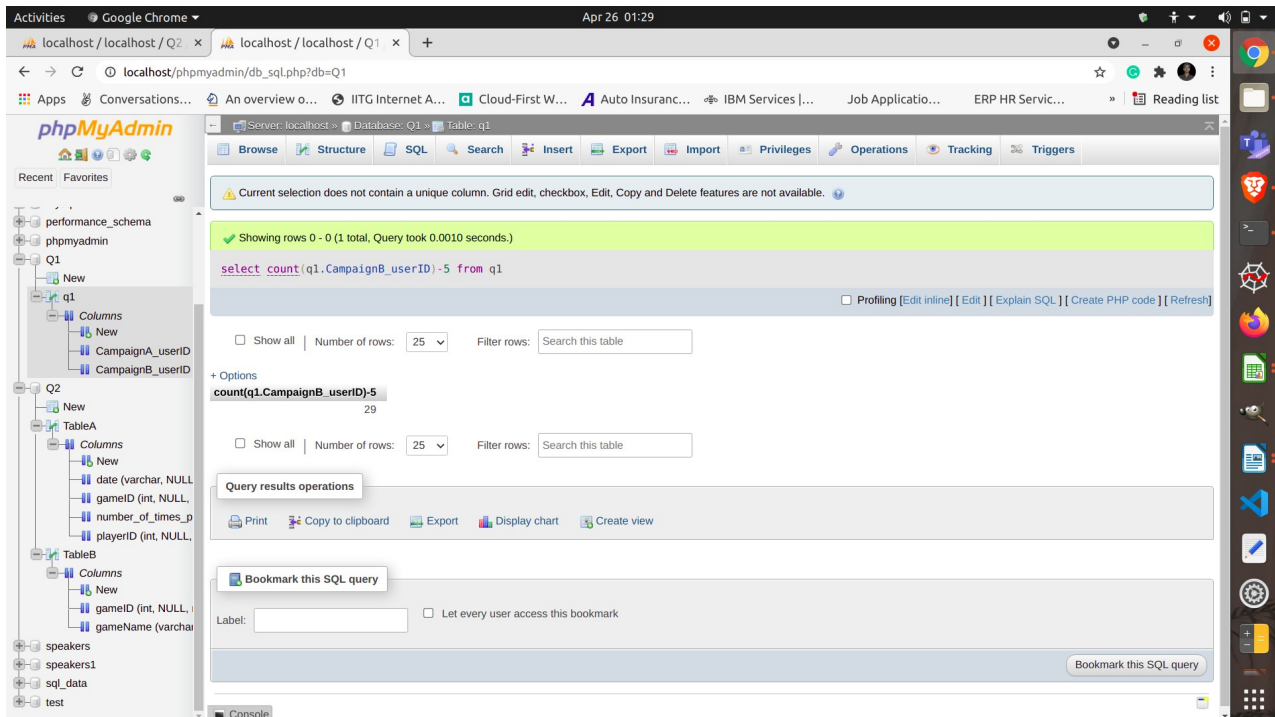
1. SQL query: for Participated in campaign A

select count(q1.CampaignA_userID) from q1

2. SQL query: Paticipated in campaign B

select count(q1.CampaignB_userID)-5 from q1

Here I am substracting 5 because five 0's as extra data has beed added for simplicity which is shown in below figure.
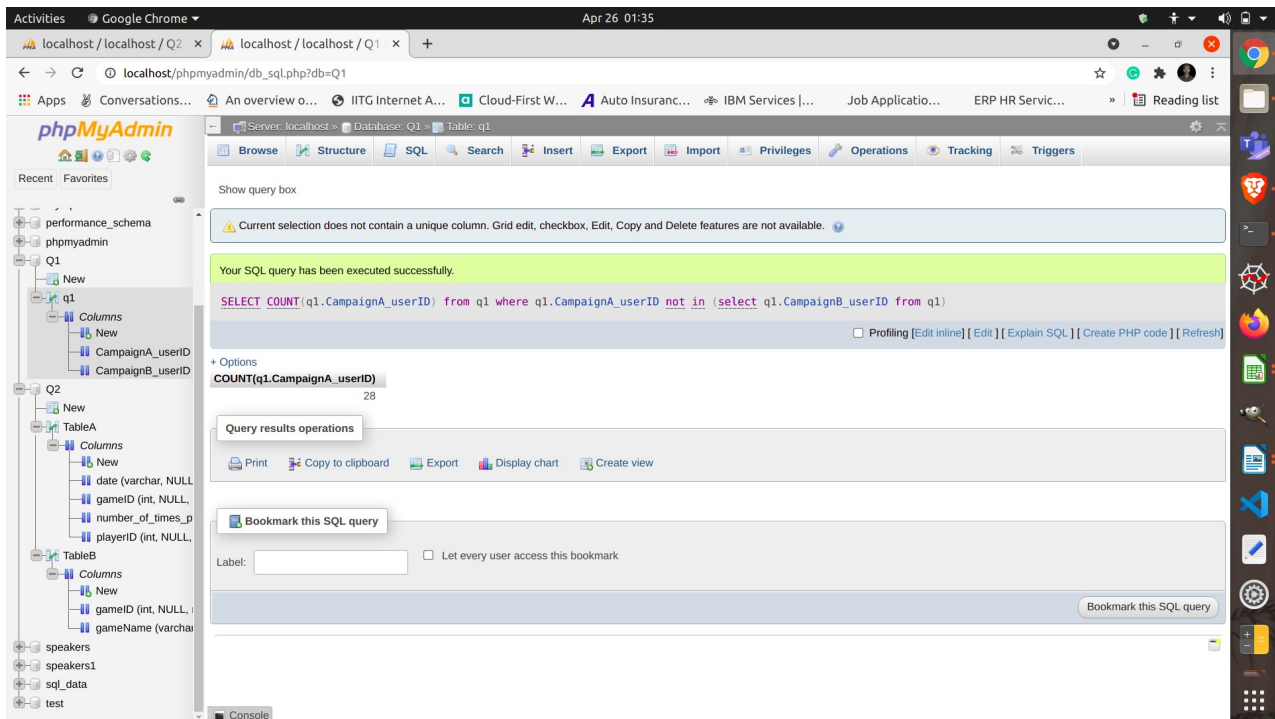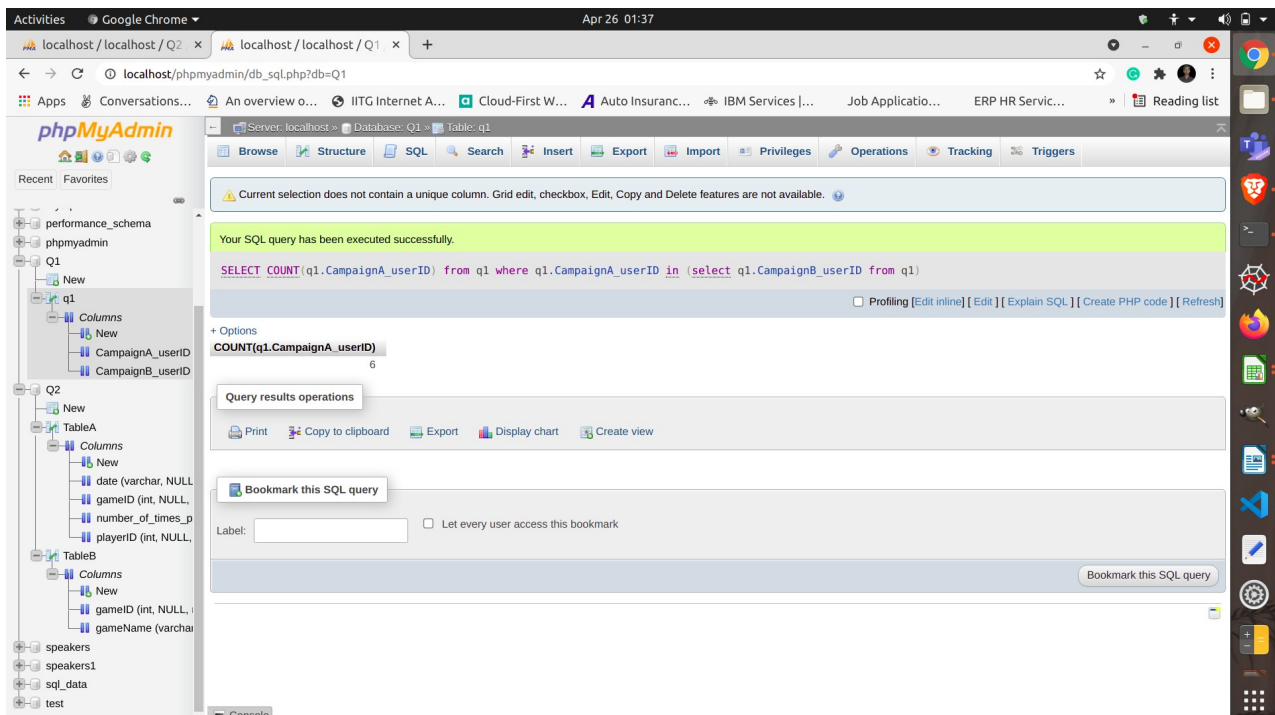

Data used for Q1: SQL Assignment

3. SQL query: for Patcipated in campaign A only

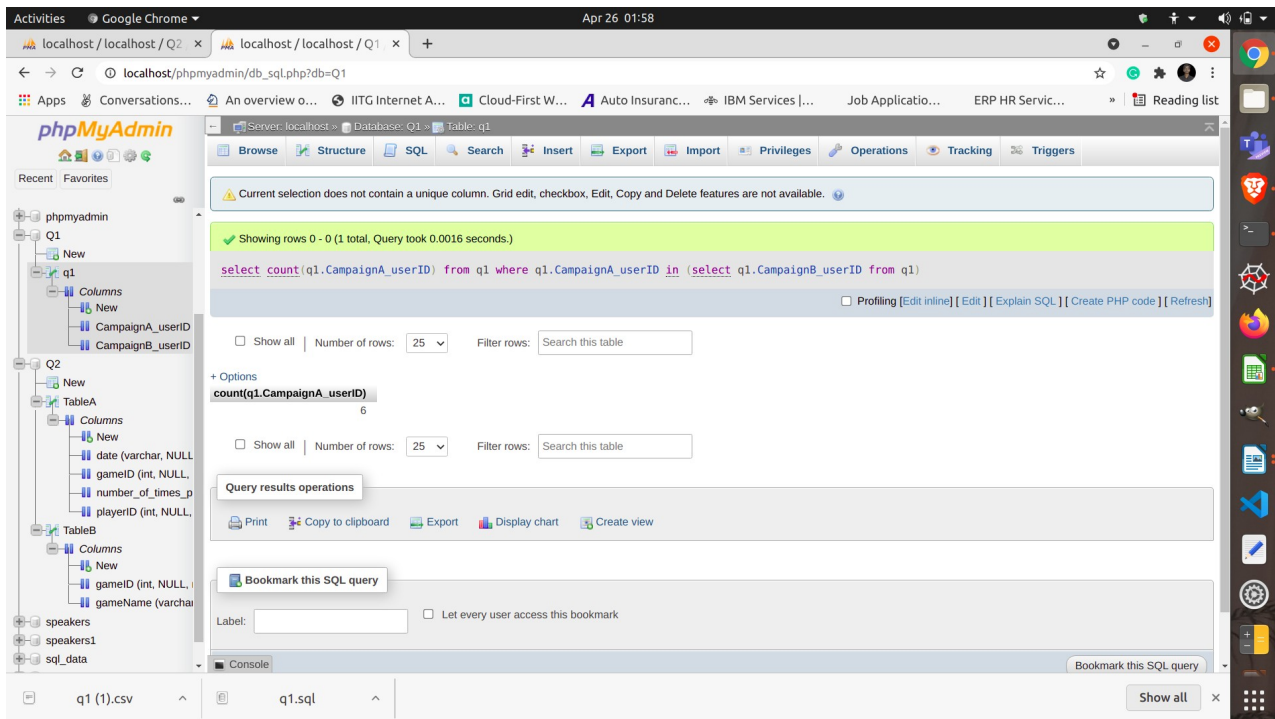SELECT COUNT(q1.CampaignA_userID) from q1 where q1.CampaignA_userID not in (select q1.CampaignB_userID from q1);

4. SQL query: for Participated in campaign B only

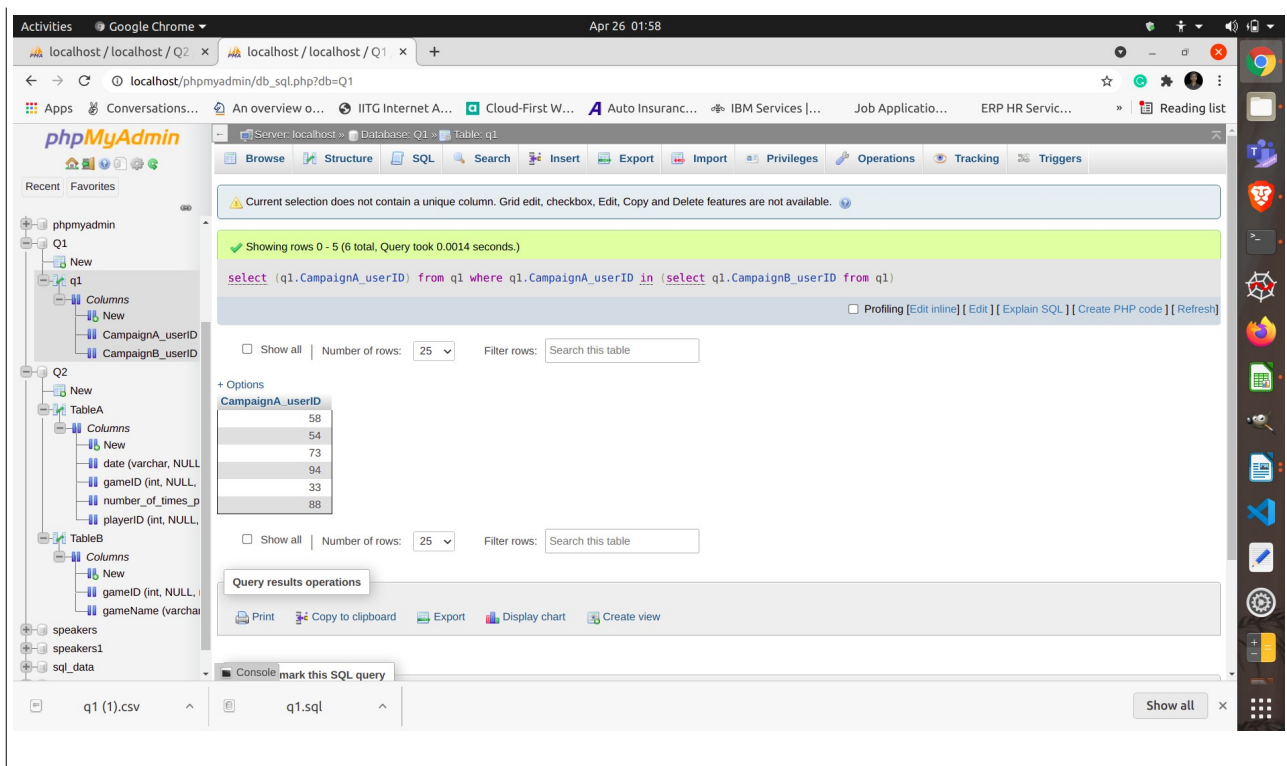SELECT COUNT(q1.CampaignA_userID) from q1 where q1.CampaignA_userID in (select q1.CampaignB_userID from q1)

5. SQL query: for Participated in both the campaigns

select count(q1.CampaignA_userID) from q1
where q1.CampaignA_userID in (select q1.CampaignB_userID from q1)

6. SQL query: for Participated in either campaign A or Campaign B

select count(*) as UNIONCount from (select q1.CampaignA_userID from q1 UNION select q1.CampaignB_userID from q1)t1
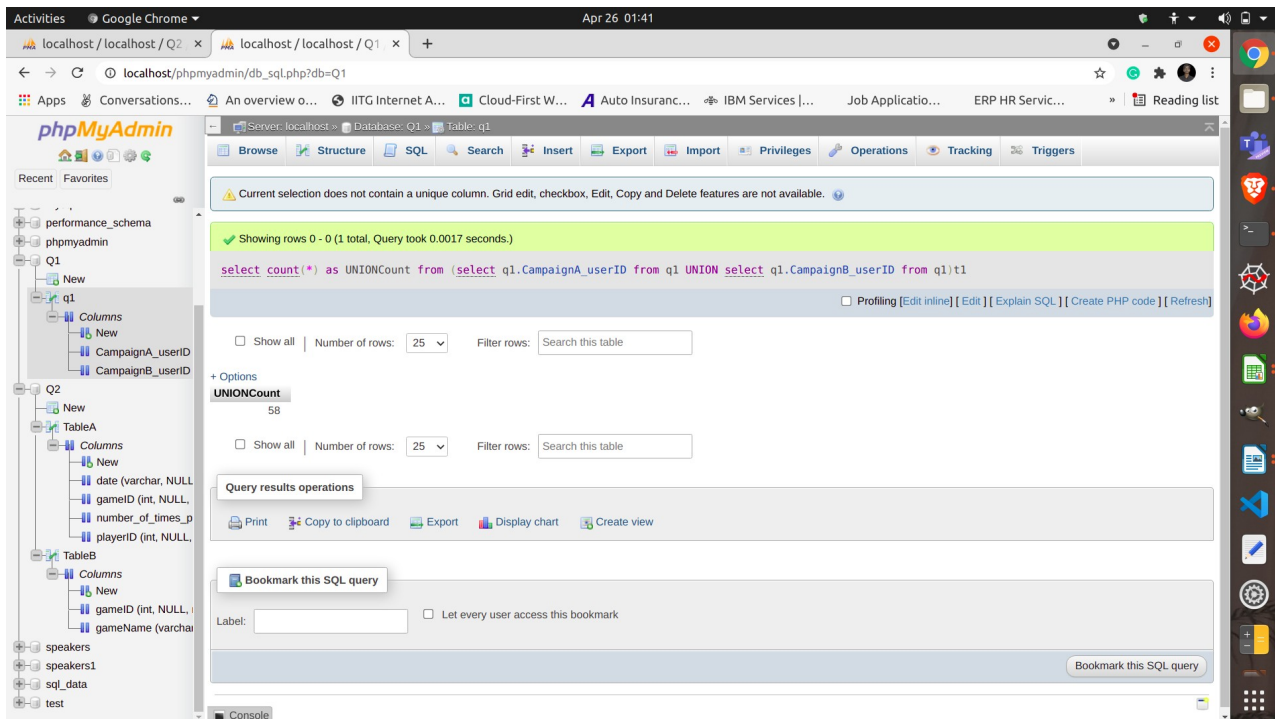
But Here answer is 57. (Pa + Pb -Pa_U_Pb); but in this picture 58 is written due to data consist of 0-59 which includes one additional 0, name of the columns as shown below:

Q2.

Ans:-
Q2 database link: https://drive.google.com/file/d/13YjfG-FDMcHPZdTwMPOxwQ7zAdJntKvg/view?usp=sharing

Here, The name of the database is – Q2
& It has two table – TableA & TableB
TableA has following columns:- playerID, data, gameID, number_of_times_played
&
TableB has following columns:- gameID, gameName

SQL Query: for the overall top played game name by each player along with number_of_times_played

select playerID, gameName, max(number_of_times_played) from
(
    select playerID, gameName, sum(number_of_times_played) as Number_of_times_played
    from TableA
    join TableB
    on TableA.gameID=TableB.gameID
    group by gameName, playerID
    order by playerID, gameName, number_of_times_played
) t1
GROUP BY gameName

Result

Data for all playerID, gameName & number_of_times_played

Data Analyst Test GetMega

Q1, Q2, Q3,

Answer link: https://drive.google.com/file/d/1haGxXqMP9m5AvbaSsM2qd69MmINzuqj2/view?usp=sharing