

# GetMega Assignment

## Business Analytics Internship

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## SQL Assignment

Q1, Q2 Link: [https://drive.google.com/file/d/1dnelMWqp3HA7BnrRceKQ1x5cOHw\\_Yxr3/view?usp=sharing](https://drive.google.com/file/d/1dnelMWqp3HA7BnrRceKQ1x5cOHw_Yxr3/view?usp=sharing)

Q1.

Ans:-

**Q1 database link:**

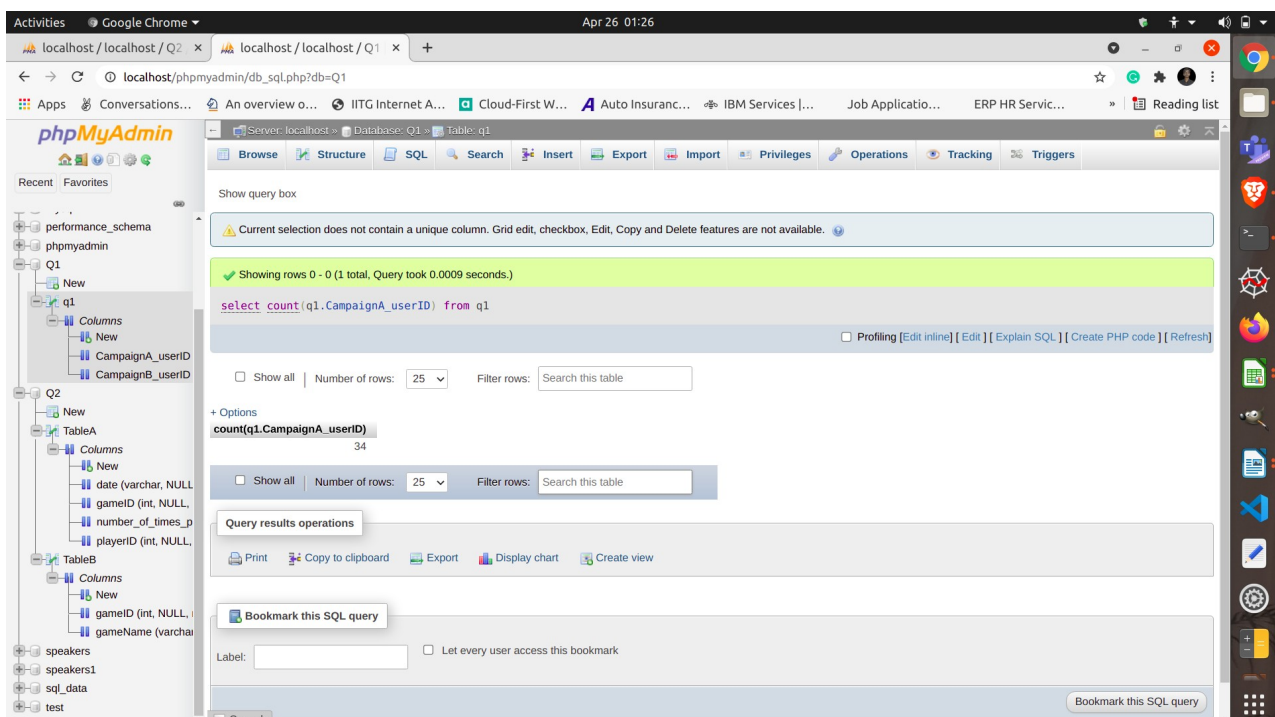
<https://drive.google.com/file/d/1MW7UmSPCmtB1qc41RDPVOFxYmWoY6dwz/view?usp=sharing>

Here Q1 is the name of the database

& q1 is the table name, which has two column as CampaignA\_userID , and CampaignB\_userID

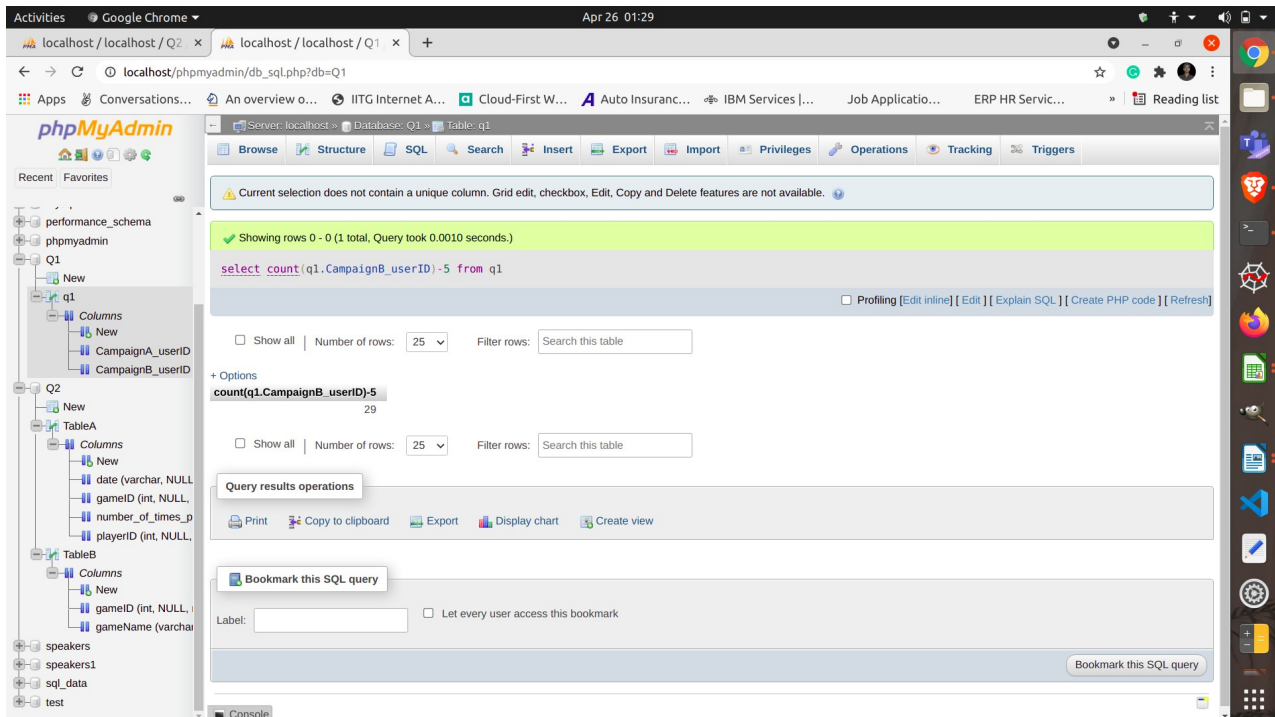
**1. SQL query:** for Participated in campaign A

`select count(q1.CampaignA_userID) from q1`



## 2. SQL query: Participated in campaign B

`select count(q1.CampaignB_userID)-5 from q1`



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

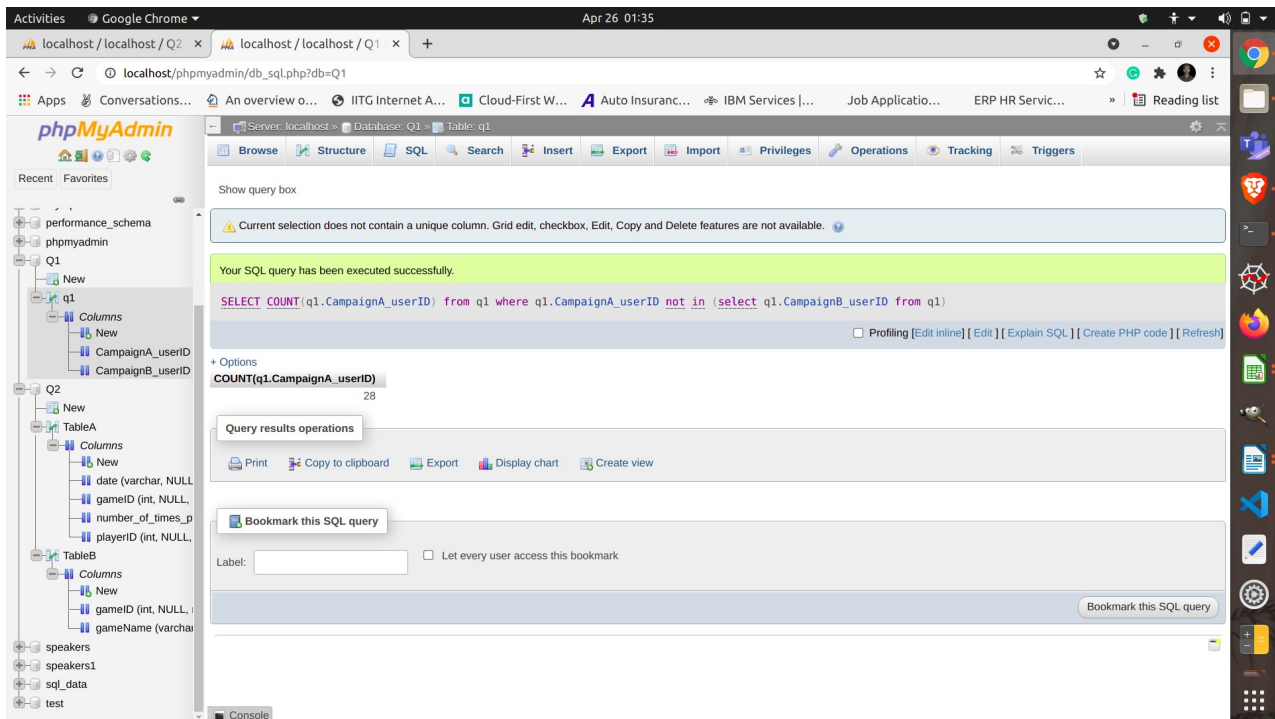
The screenshot shows the phpMyAdmin interface displaying the data for table 'q1'. The table has two columns: 'CampaignA\_userID' and 'CampaignB\_userID'. The data is presented in a table format with 20 rows.

CampaignA_userID	CampaignB_userID
91	62
27	11
58	16
50	92
64	17
65	71
54	12
98	37
78	93
24	58
31	54
73	94
63	85
72	30
94	32
20	1
38	48
8	99
43	45
33	46
26	39
100	29
61	49
87	73
84	81
15	88
80	70
77	33
40	55
82	0
42	0
56	0
95	0
88	0

Data used for Q1: SQL Assignment

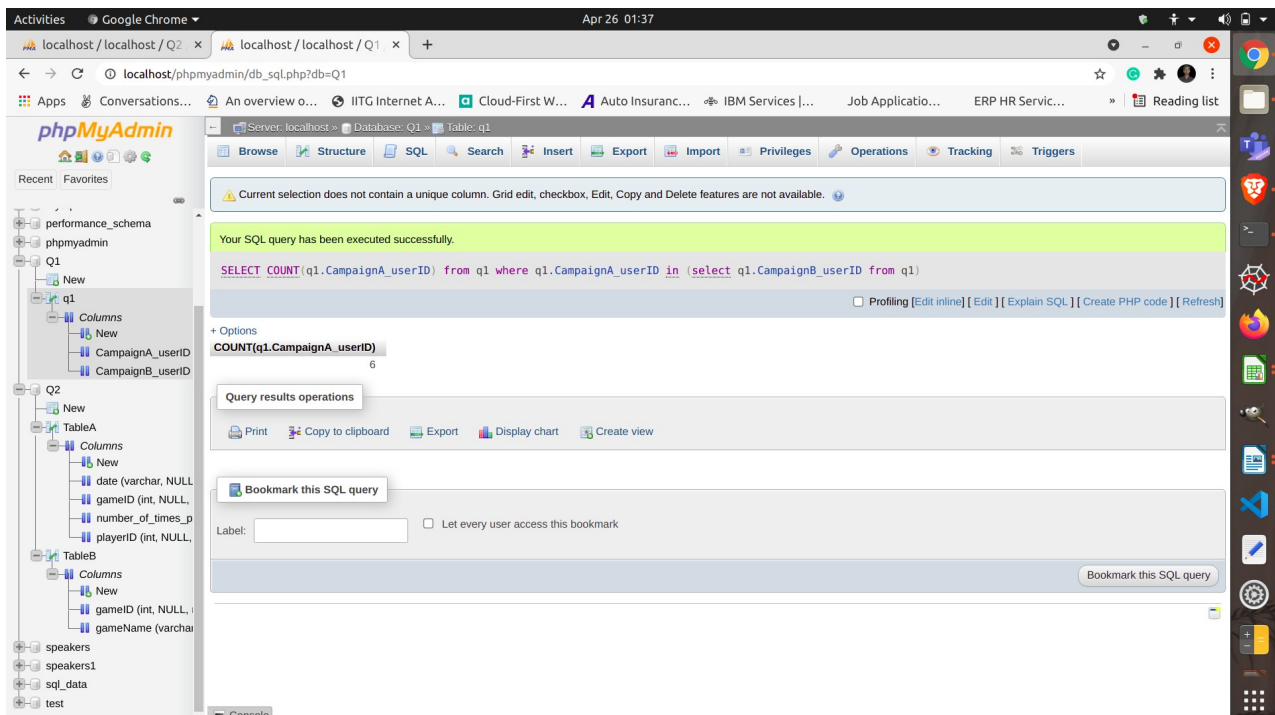
### 3. SQL query: for Patcipated in campaign A only

SELECT COUNT(q1.CampaignA\_userID) from q1 where q1.CampaignA\_userID not in (select q1.CampaignB\_userID from q1);



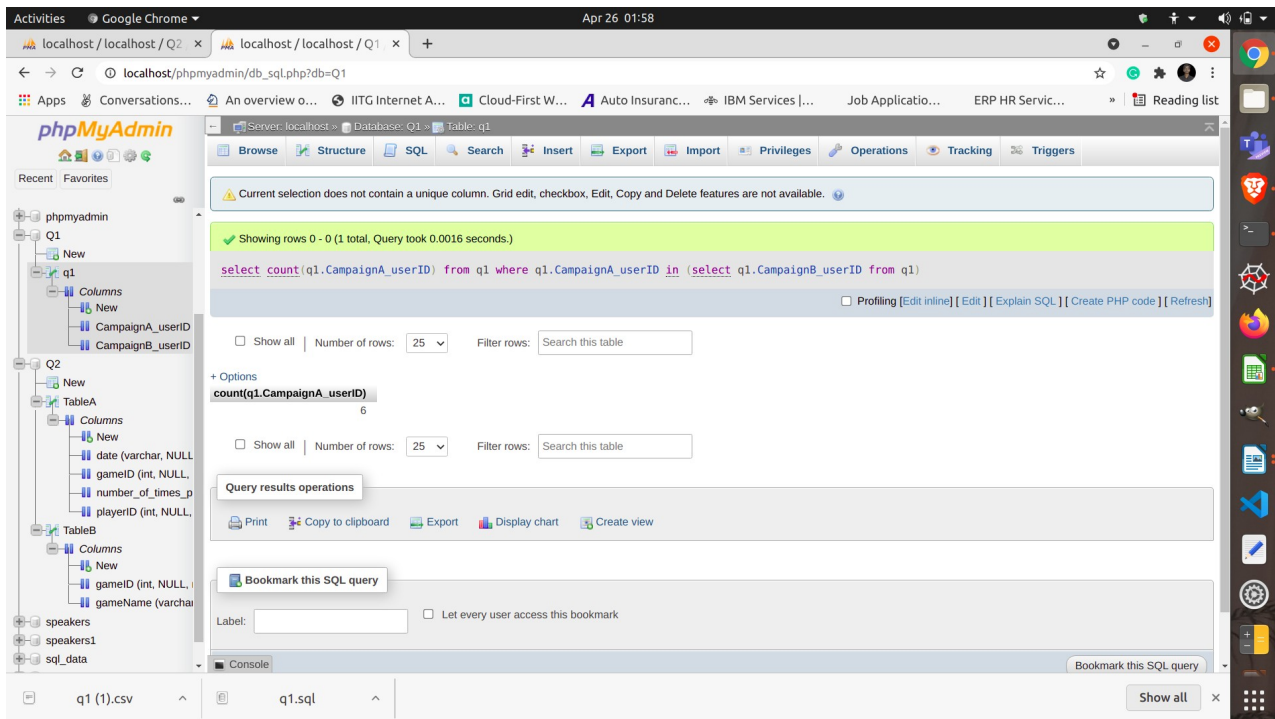
### 4. SQL query: for Participated in campaign B only

SELECT COUNT(q1.CampaignA\_userID) from q1 where q1.CampaignA\_userID in (select q1.CampaignB\_userID from q1)



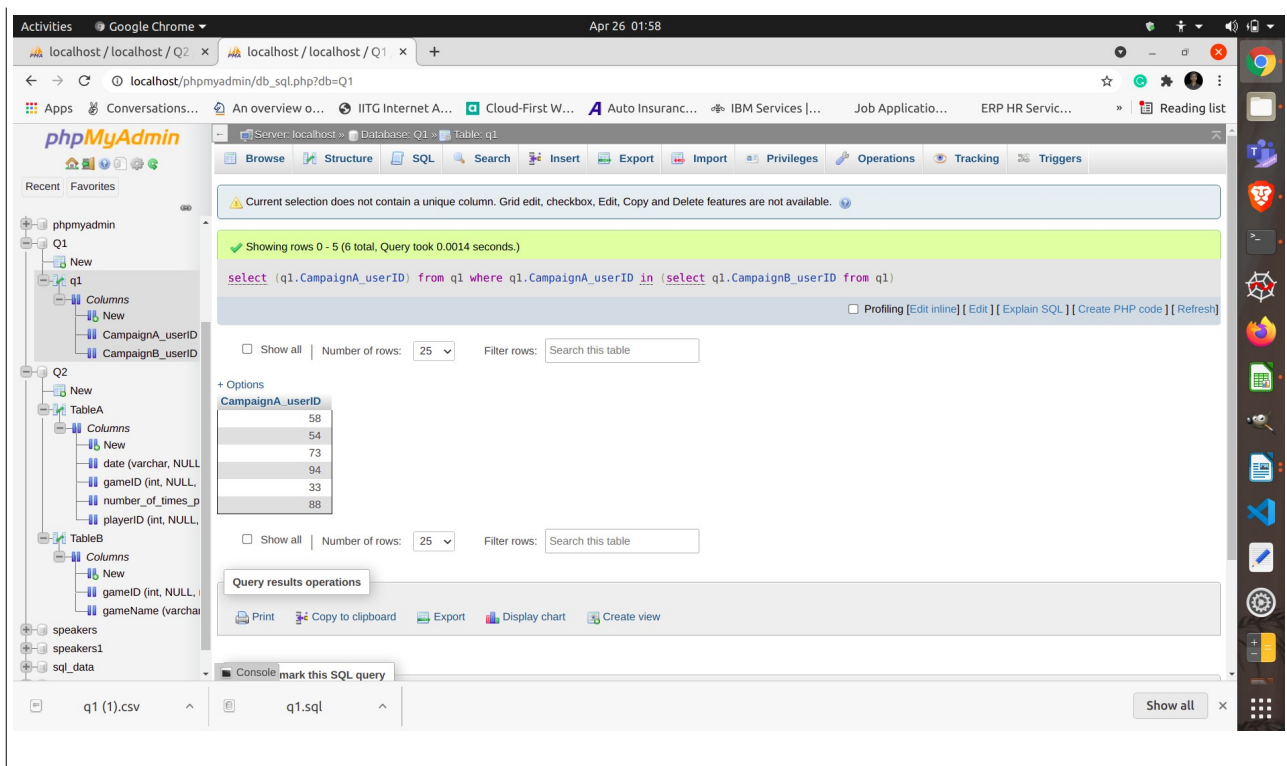
## 5. SQL query: for Participated in both the campaigns

select count(q1.CampaignA\_userID) from q1  
where q1.CampaignA\_userID in (select q1.CampaignB\_userID from q1)



The screenshot shows the phpMyAdmin interface with the following details:

- Database:** q1
- Table:** q1
- Query:** `select count(q1.CampaignA_userID) from q1 where q1.CampaignA_userID in (select q1.CampaignB_userID from q1)`
- Results:** Showing rows 0 - 0 (1 total, Query took 0.0016 seconds). The result is a single row with the value 6.
- Options:** `count(q1.CampaignA_userID)`
- Query results operations:** Print, Copy to clipboard, Export, Display chart, Create view.
- Bookmark this SQL query:** Label:  Let every user access this bookmark.

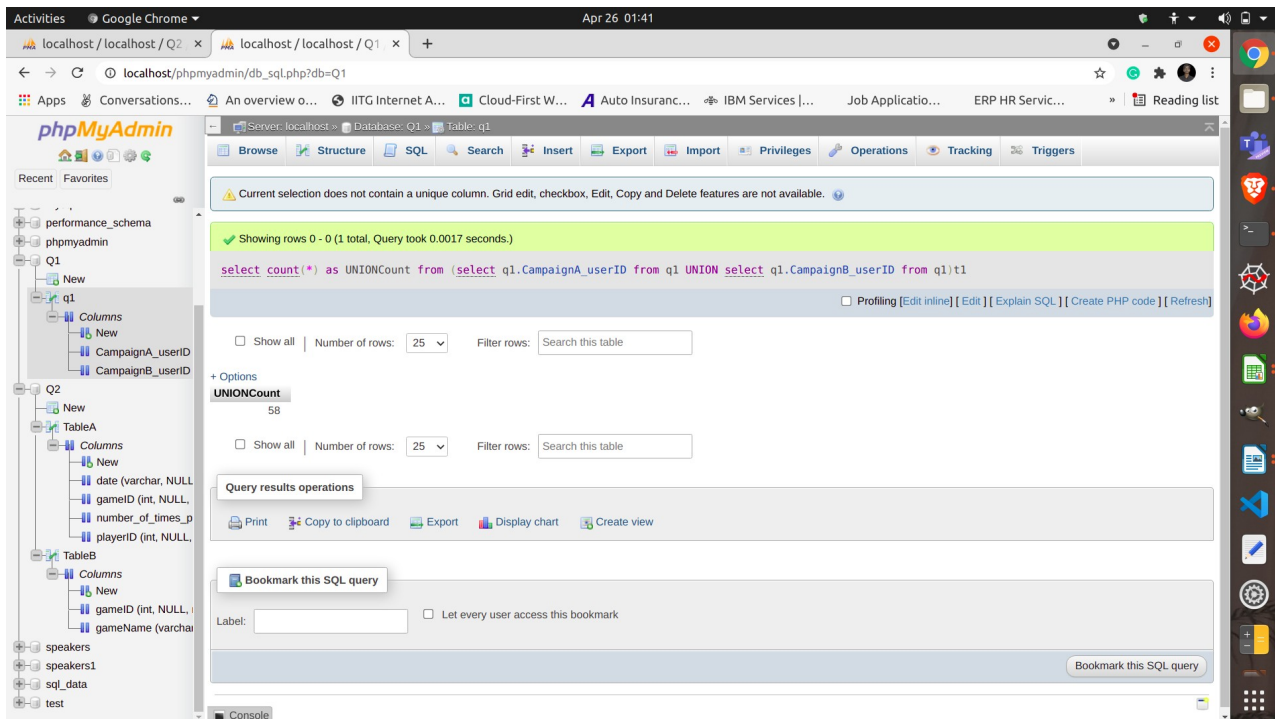


The screenshot shows the phpMyAdmin interface with the following details:

- Database:** q1
- Table:** q1
- Query:** `select (q1.CampaignA_userID) from q1 where q1.CampaignA_userID in (select q1.CampaignB_userID from q1)`
- Results:** Showing rows 0 - 5 (6 total, Query took 0.0014 seconds). The results are 6 rows of CampaignA\_userID values: 58, 54, 73, 94, 33, 88.
- Options:** `CampaignA_userID`
- Query results operations:** Print, Copy to clipboard, Export, Display chart, Create view.
- Bookmark this SQL query:** Label:  Let every user access this bookmark.

## 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. ( $P_a + P_b - P_{a \cup b}$ ); 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:

The screenshot shows the LibreOffice Calc spreadsheet titled 'q1 (1).csv'. The data is organized into two columns: 'CampaignA\_userID' (Column A) and 'CampaignB\_userID' (Column B). The 'CampaignA\_userID' column contains a list of integers from 0 to 59, with the value 0 appearing at the bottom. The 'CampaignB\_userID' column is empty.

A	B
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
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48	
49	
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52	
53	
54	
55	
56	
57	
58	
59	



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
```

The screenshot shows the phpMyAdmin interface for a database named 'Q2'. The SQL tab is active, displaying the following query:

```
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
```

The query results are displayed in a table with the following data:

playerID	gameName	max(number_of_times_played)
1	Carom	4654
1	Poker	5083
1	Rummy	4915

The interface also shows a sidebar with a tree view of the database structure, including tables like 'TableA' and 'TableB'. The bottom of the interface has a 'Result' label.

Server: localhost Database: Q2 Table: t1

playerID	gameName	max(number_of_times_played)
1	Carrom	4030
1	Poker	2889
1	Rummy	3777
2	Carrom	2463
2	Poker	5083
2	Rummy	4728
3	Carrom	3027
3	Poker	3534
3	Rummy	3325
4	Carrom	4028
4	Poker	4551
4	Rummy	4915
5	Carrom	2861
5	Poker	4455
5	Rummy	3812
6	Carrom	4538
6	Poker	2424
6	Rummy	3825
7	Carrom	3585
7	Poker	3437
7	Rummy	4040
8	Carrom	3567
8	Poker	3963
8	Rummy	2434
9	Carrom	3854
9	Poker	4411
9	Rummy	4691
10	Carrom	4654
10	Poker	3795
10	Rummy	4135

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>