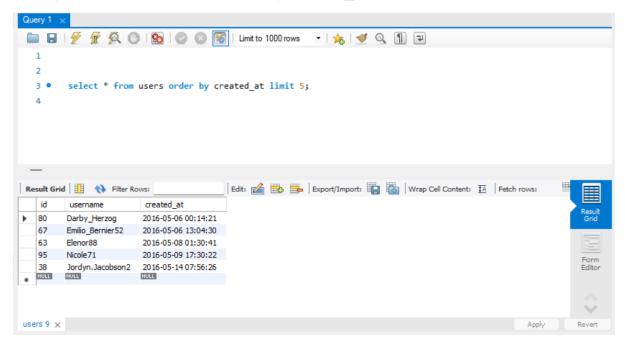
A.Marketing Analysis:

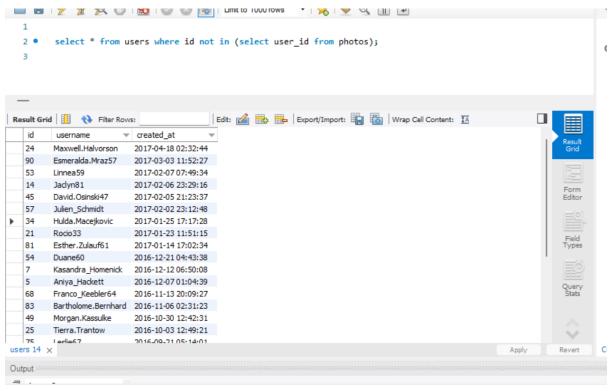
1)Loyal User Reward:

Query: select * from users order by created_at limit 5;



2)Interactive User Engagement

Query: select * from users where id not in (select user_id from photos);



id	username	created_at
5	Aniya_Hackett	2016-12-07 01:04:39
7	Kasandra_Homenick	2016-12-12 06:50:08
14	Jaclyn81	2017-02-06 23:29:16
21	Rocio33	2017-01-23 11:51:15
24	Maxwell.Halvorson	2017-04-18 02:32:44
25	Tierra.Trantow	2016-10-03 12:49:21
34	Pearl7	2016-07-08 21:42:01
36	Ollie_Ledner37	2016-08-04 15:42:20
41	Mckenna17	2016-07-17 17:25:45
45	David.Osinski47	2017-02-05 21:23:37
49	Morgan.Kassulke	2016-10-30 12:42:31
53	Linnea59	2017-02-07 07:49:34
54	Duane60	2016-12-21 04:43:38
57	Julien_Schmidt	2017-02-02 23:12:48
66	Mike.Auer39	2016-07-01 17:36:15
68	Franco_Keebler64	2016-11-13 20:09:27
71	Nia_Haag	2016-05-14 15:38:50
74	Hulda.Macejkovic	2017-01-25 17:17:28
75	Leslie67	2016-09-21 05:14:01
76	Janelle.Nikolaus81	2016-07-21 09:26:09
80	Darby_Herzog	2016-05-06 00:14:21
81	Esther.Zulauf61	2017-01-14 17:02:34
83	Bartholome.Bernhard	2016-11-06 02:31:23
89	Jessyca_West	2016-09-14 23:47:05
90	Esmeralda.Mraz57	2017-03-03 11:52:27
91	Bethany20	2016-06-03 23:31:53

3)Contest winner declaration

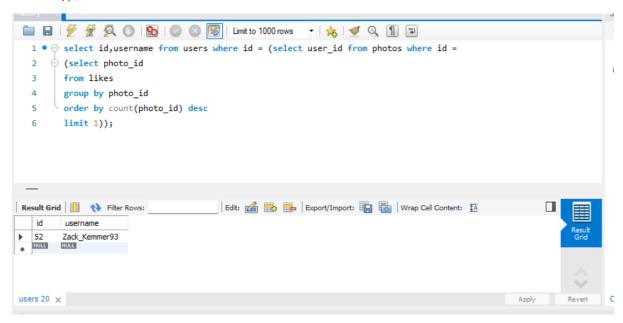
Query: select id, username from users where id = (select user_id from photos where id=(select photo_id

from likes

group by photo_id

order by count(photo_id) desc

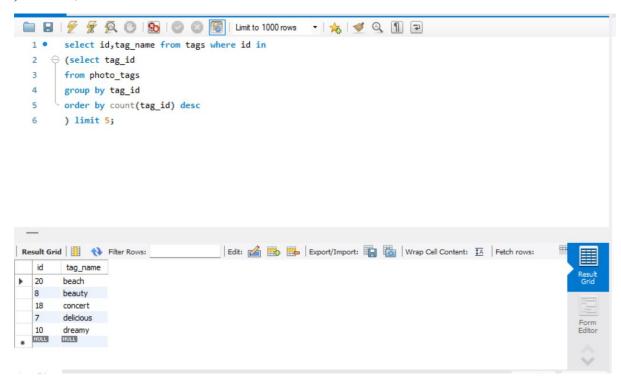
limit 1));



4) Hashtag research

Query: select id,tag_name from tags where id in (select tag_id from photo_tags group by tag_id order by count(tag_id) desc

) limit 5;



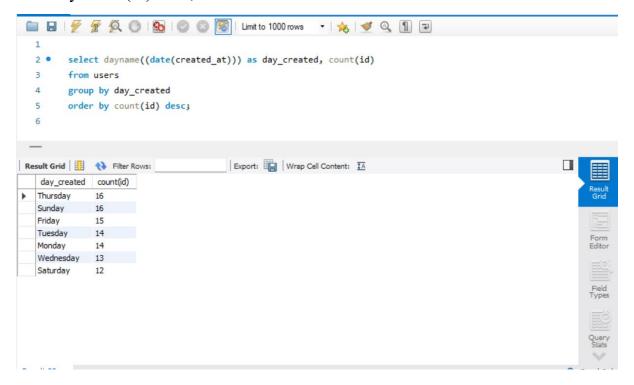
5)Ad campaign launch

Query: select dayname((date(created_at))) as day_created, count(id)

from users

group by day created

order by count(id) desc;

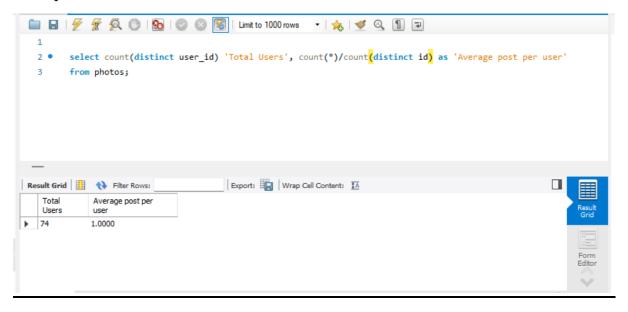


B.Investor Metrics:

1)User Engagement:

<u>Query</u>: select count(distinct user_id) 'Total Users', count(*)/count(distinct id) as 'Average post per user'

from photos;



2) Bots & Fake accounts

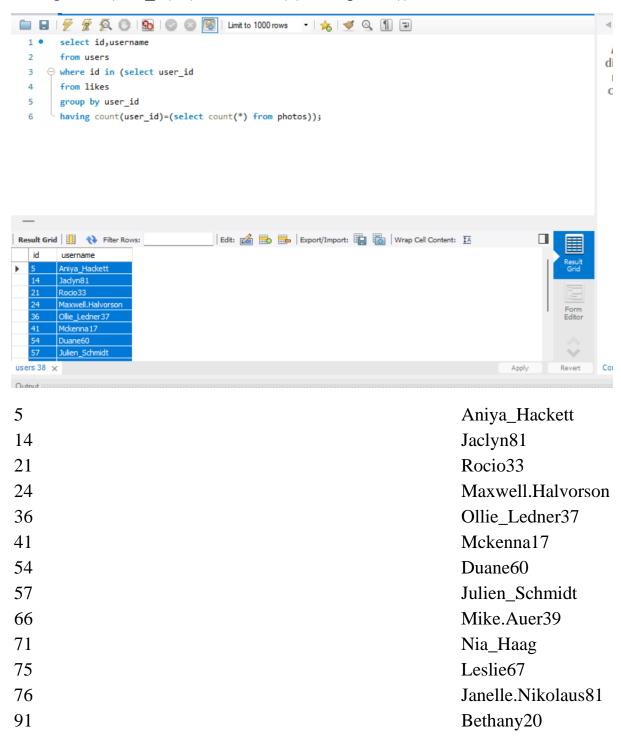
Query: select id, username from users

where id in (select user_id

from likes

group by user id

having count(user id)=(select count(*) from photos));



Project description:

The purpose of this project is to provide the insights about the Instagram users, tags, photos, to identify fake accounts and so on.

Approach:

Steps I followed –

- I marked the integrity constraints such as primary key, foreign key
- I drew the relation between the entities given
- Break down the given problem statement into sub modules where multiple tables are involved (subquery)

<u>Tech Stack used</u>: MySQL Workbench

I have used MySQL workbench. Reason why I have selected the mentioned tech stack is it is cross platform compatible open source RDBMS.

Insights:

I was able to analyze the data to get the required results like which day would be the best to launch the campaign, how to find bots/fake accounts and so on.

Result:

I have applied the knowledge to get the required findings form the given data. It was challenging at some point later I referred the documentation to resolve it.

Drive Link:

This project is very helpful, it has given real time example to gain the knowledge in much more understanding way.