# Business Analytics with Digital Marketing Business analytics CAPSTONE PROJECT

**Submitted By:** 

Kaviya. M

# **Instagram User Analytics**

# Marketing Analysis:

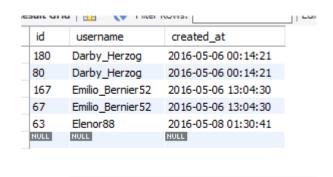
## I) Loyal User Reward:

#### **INPUT:**

select \* from users order by created\_at asc

#### **OUTPUT:**

limit 5



# II) Inactive User Engagement:

#### **INPUT:**

select \* from users as a
left join photos as b on
a.id = b.user\_id and
b.user\_id is null

#### **OUTPUT:**

id	username	created_at	id	image_url	user_id	created_dat
1	Kenton_Kirlin	2017-02-16 18:22:11	NULL	NULL	NULL	NULL
2	Andre_Purdy85	2017-04-02 17:11:21	NULL	NULL	NULL	NULL
3	Harley_Lind 18	2017-02-21 11:12:33	NULL	NULL	NULL	NULL
4	Arely_Bogan63	2016-08-13 01:28:43	NULL	NULL	NULL	NULL
5	Aniya_Hackett	2016-12-07 01:04:39	NULL	NULL	NULL	NULL
6	Travon.Waters	2017-04-30 13:26:14	NULL	NULL	NULL	NULL
7	Kasandra_Homenick	2016-12-12 06:50:08	NULL	NULL	NULL	NULL
8	Tabitha_Schamberger11	2016-08-20 02:19:46	NULL	NULL	NULL	NULL
9	Gus93	2016-06-24 19:36:31	NULL	NULL	NULL	NULL
10	Presley_McClure	2016-08-07 16:25:49	NULL	NULL	NULL	NULL
11	Justina.Gaylord27	2017-05-04 16:32:16	NULL	NULL	NULL	NULL
12	Dereck65	2017-01-19 01:34:14	NULL	NULL	NULL	NULL
13	Alexandro35	2017-03-29 17:09:02	NULL	NULL	NULL	NULL
14	Jadyn81	2017-02-06 23:29:16	NULL	NULL	NULL	NULL
15	Billy52	2016-10-05 14:10:20	NULL	NULL	NULL	NULL
16	Annalise.McKenzie 16	2016-08-02 21:32:46	NULL	NULL	NULL	NULL
17	Norbert_Carroll35	2017-02-06 22:05:43	NULL	NULL	NULL	NULL
18	Odessa2	2016-10-21 18:16:56	NULL	NULL	NULL	NULL
19	Hailee26	2017-04-29 18:53:40	NULL	NULL	NULL	NULL
20	Delpha.Kihn	2016-08-31 02:42:30	NULL	NULL	NULL	NULL

# **III) Contest Winner Declaration:**

### **INPUT:**

select \* from

(select user\_id, count(photo\_id) as cnt from likes

group by user\_id

order by cnt desc) as a

left join users as b on a.user\_id = b.id

# **Output:**

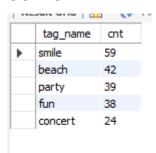
	1	-			
	user_id	cnt	id	username	created_at
•	21	257	21	Rocio33	2017-01-23 11:51:15
	71	257	71	Nia_Haag	2016-05-14 15:38:50
	5	257	5	Aniya_Hackett	2016-12-07 01:04:39
	66	257	66	Mike.Auer39	2016-07-01 17:36:15
	41	257	41	Mckenna 17	2016-07-17 17:25:45
	14	257	14	Jaclyn81	2017-02-06 23:29:16
	57	257	57	Julien_Schmidt	2017-02-02 23:12:48
	24	257	24	Maxwell.Halvorson	2017-04-18 02:32:44
	76	257	76	Janelle.Nikolaus81	2016-07-21 09:26:09
	75	257	75	Leslie67	2016-09-21 05:14:01
	54	257	54	Duane60	2016-12-21 04:43:38
	91	257	91	Bethany20	2016-06-03 23:31:53
	36	257	36	Ollie_Ledner37	2016-08-04 15:42:20
	16	103	16	Annalise.McKenzi	2016-08-02 21:32:46

# IV) Hashtag Research:

#### **INPUT:**

select a.tag\_name, count(b.tag\_id) as cnt from tags as a left join photo\_tags as b on a.id=b.tag\_id group by a.tag\_name order by cnt desc limit 5

#### **OUTPUT:**

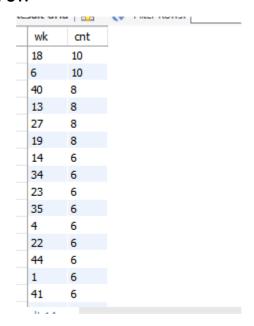


# V) Ad Campaign Launch:

#### **INPUT:**

```
select week(created_at) as wk ,
count(week(created_at)) as cnt from users
group by wk
order by cnt desc
```

#### **OUTPUT:**



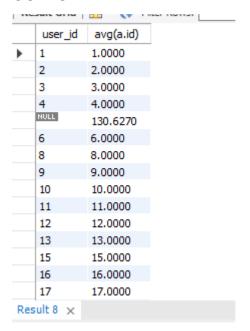
# Investor Metrics:

# VI) User Engagement:

#### **INPUT:**

```
select b.user_id,avg(a.id) from users as a left join photos as b on a.id=b.user_id group by b.user_id
```

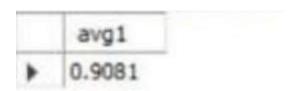
#### **OUTPUT:**



#### **INPUT:**

select count(b.image\_url) / count(a.id) as avg1 from users as a left join photos as b on a.id=b.user\_id

#### **OUTPUT:**



# VII) Bots & Fake Accounts:

#### **INPUT:**

select user\_id, count(photo\_id) as cnt\_likes from likes
group by user\_id
order by cnt\_likes desc;

#### **OUTPUT:**

	user_id	cnt_likes
•	21	257
	71	257
	5	257
	66	257
	41	257
	14	257
	57	257
	24	257
	76	257
	75	257
	54	257
	91	257
	36	257
	16	103
	96	98
	69	97
	65	96
	2	94
	26	94
D	lead	

#### **INPUT:**

```
create table fake_id
select user_id, count(photo_id) as cnt_likes from likes
group by user_id
order by cnt_likes desc;
```

## **INPUT:**

```
select count(*)from fake_id
where cnt_likes= '257'
```

# **OUTPUT:**

