Business Analytics with Digital Marketing BUSINESS ANALYTICS CAPSTONE PROJECT

Submitted By:

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Instagram User Analytics

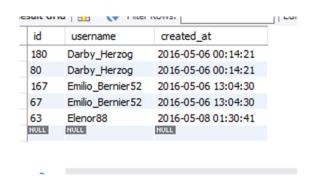
■ Marketing Analysis:

I) Loyal User Reward:

INPUT:

select * from users
order by created_at asc
limit 5

OUTPUT:



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	Jaclyn81	2017-02-06 23:29:16	NULL	NULL	NULL	NULL
15	Billy52	2016-10-05 14:10:20	NULL	NULL	NULL	NULL
16	Annalise.McKenzie16	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:

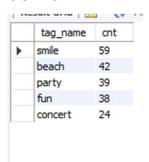
	user_id	cnt	id	username	created_at
Þ	21	257	21	Rocio33	2017-01-23 11:51:15
	71	257	71	Nia_Haag	2016-05-14 15:38:50
	5	257	5	Aniya_Hackett	2016-12-07 01:04:39
	66	257	66	Mike.Auer39	2016-07-01 17:36:15
	41	257	41	Mckenna 17	2016-07-17 17:25:45
	14	257	14	Jaclyn81	2017-02-06 23:29:16
	57	257	57	Julien_Schmidt	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:

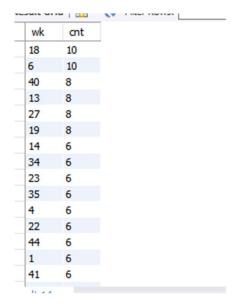


V) Ad Campaign Launch:

INPUT:

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

OUTPUT:



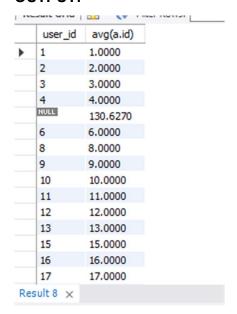
Investor Metrics:

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
```

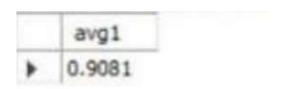
OUTPUT:



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
Þ	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

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:

