BUSINESS ANALYTICS & DIGITAL MARKETING

BUSINESS ANALYTICS CAPSTONE PROJECT

Submitted By:

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❖ Instagram User Analytics

I. Loyal User Reward:

INPUT:

Select * from users order by created_at asc limit 5

OUTPUT:

	id	username	created_at		
•	180	Darby_Herzog	2016-05-06 00:14:21		
	80	Darby_Herzog	2016-05-06 00:14:21		
	167	Emilio_Bernier52	2016-05-06 13:04:30		
	67	Emilio_Bernier52	2016-05-06 13:04:30		
63 Elenor88 2016-05-08 01:30:4					
users 14 ×					

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

	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_Lind18	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	HULL	NULL	NULL	NULL
	15	Billy52	2016-10-05 14:10:20	NULL	NULL	NULL	NULL
				SHIII I	NU II I	NULL	SHILL

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

	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
	96	98	96	Keenan.Schamber	2016-08-28 14:57:28

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:

smile beach party	59 42
party	42
£	39
fun	38
concert	24

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

	_	_
	wk	cnt
•	18	10
	6	10
	40	8
	13	8
	27	8
	19	8
	14	6
	34	6
	23	6
	35	6
	4	6
	22	6
	44	6
	1	6
	41	6

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:

user_id avg(a.id) 1 1.0000 2 2.0000 3 3.0000 4 4.0000 130.6270 6 6.0000 8 8.0000 9 9.0000 10 10.0000 11 11.0000 12 12.0000 13 13.0000 15 15.0000 16 16.0000			
2 2.0000 3 3.0000 4 4.0000 NULL 130.6270 6 6.0000 8 8.0000 9 9.0000 10 10.0000 11 11.0000 12 12.0000 13 13.0000 15 15.0000		user_id	avg(a.id)
3 3.0000 4 4.0000 NULL 130.6270 6 6.0000 8 8.0000 9 9.0000 10 10.0000 11 11.0000 12 12.0000 13 13.0000 15 15.0000	•	1	1.0000
4 4.0000 130.6270 6 6.0000 8 8.0000 9 9.0000 10 10.0000 11 11.0000 12 12.0000 13 13.0000 15 15.0000		2	2.0000
130.6270 6 6.0000 8 8.0000 9 9.0000 10 10.0000 11 11.0000 12 12.0000 13 13.0000 15 15.0000		3	3.0000
6 6,0000 8 8,0000 9 9,0000 10 10,0000 11 11,0000 12 12,0000 13 13,0000 15 15,0000			4.0000
8 8.0000 9 9.0000 10 10.0000 11 11.0000 12 12.0000 13 13.0000 15 15.0000		NULL	130.6270
9 9.0000 10 10.0000 11 11.0000 12 12.0000 13 13.0000 15 15.0000		6	6.0000
10 10.0000 11 11.0000 12 12.0000 13 13.0000 15 15.0000		8	8.0000
11 11.0000 12 12.0000 13 13.0000 15 15.0000		9	9.0000
12 12.0000 13 13.0000 15 15.0000		10	10.0000
13 13.0000 15 15.0000		11	11.0000
15 15.0000		12	12.0000
		13	13.0000
16 16.0000		15	15.0000
		16	16.0000

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

INPUT:

create table false_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 false_id where cnt_likes='257'

