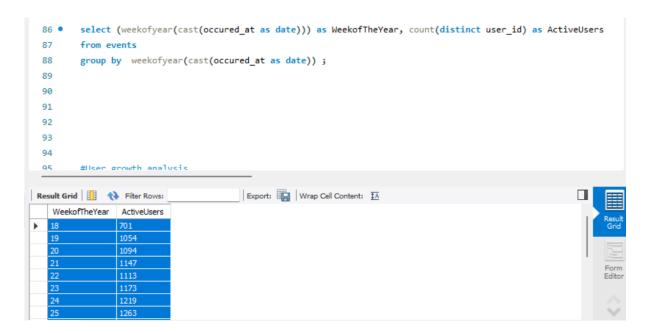
Case Study 2:

A) Weekly User Engagement

Query: select (weekofyear(cast(occured_at as date))) as WeekofTheYear, count(distinct user_id) as ActiveUsers from events group by weekofyear(cast(occured_at as date));



output:

18 701

19 1054

20 1094

21 1147

22 1113

23 1173

24 1219

25 1263

26 1249

27 1271

28 1355

29 1345

30 1363

31 1443

32 1266

33 1215

34 1203

35 1194

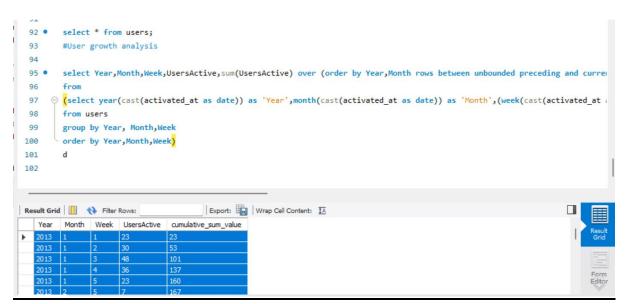
B) User Growth Analysis

Query: select Year,Month,Week,UsersActive,sum(UsersActive) over (order by Year,Month rows between unbounded preceding and current row) as cumulative sum value

from

(select year(cast(activated_at as date)) as 'Year',month(cast(activated_at as date)) as 'Month',(week(cast(activated_at as date))+1) as 'Week', count(distinct user_id) as UsersActive

from users group by Year, Month, Week order by Year, Month, Week) d



Year	Month	Week	UsersActive	Cumulative_sum_value
2013	1	1	23	23
2013	1	2	30	53
2013	1	3	48	101
2013	1	4	36	137
2013	1	5	23	160
2013	2	5	7	167
2013	2	6	48	215
2013	2	7	38	253

2013	2	8	42	295
2013	2	9	25	320
2013	3	9	9	329
2013	3	10	43	372
2013	3	11	32	404
2013	3	12	31	435
2013	3	13	33	468
2013	3	14	2	470
2013	4	14	37	507
2013	4	15	35	542
2013	4	16	43	585
2013	4	17	46	631
2013	4	18	20	651
2013	5	18	29	680
2013	5	19	44	724
2013	5	20	57	781
2013	5	21	39	820
2013	5	22	45	865
2013	6	22	4	869
2013	6	23	54	923
2013	6	24	50	973
2013	6	25	45	1018
2013	6	26	57	1075
2013	6	27	3	1078
2013	7	27	53	1131
2013	7	28	52	1183
2013	7	29	72	1255
2013	7	30	67	1322
2013	7	31	40	1362
2013	8	31	27	1389
2013	8	32	67	1456
2013	8	33	71	1527
2013	8	34	73	1600
2013	8	35	78	1678
2013	9	36	63	1741
2013	9	37	72	1813
2013	9	38	85	1898
2013	9	39	90	1988
2013	9	40	20	2008
2013	10	40	64	2072
2013	10	41	87	2159

2013	10	42	73	2232
2013	10	43	99	2331
2013	10	44	67	2398
2013	11	44	22	2420
2013	11	45	96	2516
2013	11	46	91	2607
2013	11	47	88	2695
2013	11	48	102	2797
2013	12	49	97	2894
2013	12	50	116	3010
2013	12	51	124	3134
2013	12	52	102	3236
2013	12	53	47	3283
2014	1	1	83	3366
2014	1	2	126	3492
2014	1	3	109	3601
2014	1	4	113	3714
2014	1	5	121	3835
2014	2	5	9	3844
2014	2	6	133	3977
2014	2	7	135	4112
2014	2	8	125	4237
2014	2	9	123	4360
2014	3	9	6	4366
2014	3	10	133	4499
2014	3	11	154	4653
2014	3	12	130	4783
2014	3	13	148	4931
2014	3	14	44	4975
2014	4	14	123	5098
2014	4	15	162	5260
2014	4	16	164	5424
2014	4	17	179	5603
2014	4	18	98	5701
2014	5	18	72	5773
2014	5	19	163	5936
2014	5	20	185	6121
2014	5	21	176	6297
2014	5	22	183	6480
2014	6	23	196	6676
2014	6	24	196	6872

6	25	229	7101
6	26	207	7308
6	27	45	7353
7	27	156	7509
7	28	222	7731
7	29	215	7946
7	30	221	8167
7	31	183	8350
8	31	55	8405
8	32	193	8598
8	33	245	8843
8	34	261	9104
8	35	259	9363
8	36	18	9381
	6 6 7 7 7 7 7 8 8 8 8 8	6 26 6 27 7 27 7 28 7 29 7 30 7 31 8 31 8 32 8 33 8 34 8 35	6 26 207 6 27 45 7 27 156 7 28 222 7 29 215 7 30 221 7 31 183 8 31 55 8 32 193 8 33 245 8 34 261 8 35 259

C) Weekly Retention analysis

```
Query: with query1 as

(select distinct user_id, weekofyear(cast(occured_at as date)) as signup_week

from events
```

where event_type='signup_flow' and event_name='complete_signup' and weekofyear(cast(occured at as date))=18),

query2 as

(select distinct user_id, weekofyear(cast(occured_at as date)) as engagement_week

from events

where event_type='engagement')

select count(user id) as totalusers,

sum(case when retention_week>0 then 1 else 0 end) as users_retained

from (select q1.user_id, q1.signup_week,q2.engagement_week,q2.engagement_week,q1.signup_week as retention_week

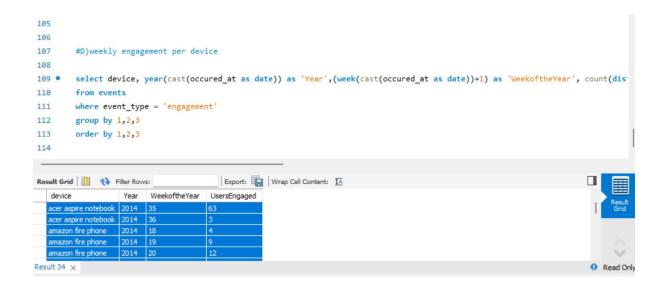
from query1 q1 left join query2 q2 on q1.user_id=q2.user_id order by q1.user_id)b

```
with query1 as
 \textbf{4} \quad \ominus \textbf{ (select distinct user\_id, weekofyear(cast(occured\_at \textbf{ as date)) as signup\_week}}
      where event_type='signup_flow' and event_name='complete_signup' and weekofyear(cast(occured_at as date))=18),
       query2 as
 8
     from events
10
     where event_type='engagement')
11
      select count(user_id) as totalusers,
       sum(case when retention_week>0 then 1 else 0 end) as users_retained
12
13 \odot from (select q1.user_id, q1.signup_week,q2.engagement_week,q2.engagement_week-q1.signup_week as retention_week
      from query1 q1 left join query2 q2 on q1.user_id=q2.user_id
     order by q1.user_id)b
Result Grid Filter Rows:
                                 Export: Wrap Cell Content: IA
  totalusers users_retained
```

D)Weekly Engagement per device

Query:

select device, year(cast(occured_at as date)) as 'Year',(weekofyear(cast(occured_at as date))) as 'WeekoftheYear', count(distinct user_id) as UsersEngaged from events where event_type = 'engagement' group by 1,2,3 order by 1,2,3



acer aspire desktop acer aspire notebook acer aspire				
acer aspire desktop acer aspire notebook acer as	acer aspire desktop	2014	18	9
acer aspire desktop acer aspire notebook acer aspir	acer aspire desktop	2014	19	26
acer aspire desktop acer aspire notebook acer aspire noteboo	acer aspire desktop	2014	20	23
acer aspire desktop acer aspire notebook acer aspire noteb	acer aspire desktop	2014	21	23
acer aspire desktop acer aspire notebook acer aspi	acer aspire desktop	2014	22	29
acer aspire desktop acer aspire notebook acer aspire no	acer aspire desktop	2014	23	25
acer aspire desktop acer aspire notebook acer aspire	acer aspire desktop	2014	24	22
acer aspire desktop acer aspire notebook acer asp	acer aspire desktop	2014	25	24
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acer aspire desktop acer aspire notebook ac	acer aspire desktop	2014	28	29
acer aspire desktop acer aspire notebook	acer aspire desktop	2014	29	30
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acer aspire notebook 2014 20 41 acer aspire notebook 2014 21 40 acer aspire notebook 2014 22 47 acer aspire notebook 2014 23 41 acer aspire notebook 2014 24 43 acer aspire notebook 2014 25 40 acer aspire notebook 2014 26 47 acer aspire notebook 2014 27 35 acer aspire notebook 2014 28 49 acer aspire notebook 2014 29 49 acer aspire notebook 2014 30 53 acer aspire notebook 2014 31 60 acer aspire notebook 2014 32 55 acer aspire notebook 2014 33 55 acer aspire notebook 2014 34 46 acer aspire notebook 2014 35 63 acer aspire notebook 2014 36 3 amazon fire phone 2014 19 9	acer aspire notebook	2014	18	20
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acer aspire notebook 2014 24 43 acer aspire notebook 2014 25 40 acer aspire notebook 2014 26 47 acer aspire notebook 2014 27 35 acer aspire notebook 2014 28 49 acer aspire notebook 2014 29 49 acer aspire notebook 2014 30 53 acer aspire notebook 2014 31 60 acer aspire notebook 2014 32 55 acer aspire notebook 2014 33 55 acer aspire notebook 2014 34 46 acer aspire notebook 2014 35 63 acer aspire notebook 2014 36 3 amazon fire phone 2014 18 4 amazon fire phone 2014 19 9	acer aspire notebook	2014	22	47
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acer aspire notebook 2014 27 35 acer aspire notebook 2014 28 49 acer aspire notebook 2014 29 49 acer aspire notebook 2014 30 53 acer aspire notebook 2014 31 60 acer aspire notebook 2014 32 55 acer aspire notebook 2014 33 55 acer aspire notebook 2014 34 46 acer aspire notebook 2014 35 63 acer aspire notebook 2014 36 3 amazon fire phone 2014 18 4 amazon fire phone 2014 19 9	acer aspire notebook	2014	25	40
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acer aspire notebook 2014 33 55 acer aspire notebook 2014 34 46 acer aspire notebook 2014 35 63 acer aspire notebook 2014 36 3 amazon fire phone 2014 18 4 amazon fire phone 2014 19 9	acer aspire notebook	2014	31	60
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acer aspire notebook 2014 35 63 acer aspire notebook 2014 36 3 amazon fire phone 2014 18 4 amazon fire phone 2014 19 9	acer aspire notebook	2014	33	55
acer aspire notebook 2014 36 3 amazon fire phone 2014 18 4 amazon fire phone 2014 19 9	acer aspire notebook	2014	34	46
amazon fire phone 2014 18 4 amazon fire phone 2014 19 9	acer aspire notebook	2014	35	63
amazon fire phone 2014 19 9	acer aspire notebook	2014	36	3
	amazon fire phone	2014	18	4
amazon fire phone 2014 20 12	amazon fire phone	2014	19	9
	amazon fire phone	2014	20	12

amazon fire phone	2014	21	11
amazon fire phone	2014	22	5
amazon fire phone	2014	23	5
amazon fire phone	2014	24	16
amazon fire phone	2014	25	11
amazon fire phone	2014	26	13
amazon fire phone	2014	27	13
amazon fire phone	2014	28	10
amazon fire phone	2014	29	6
amazon fire phone	2014	30	12
amazon fire phone	2014	31	12
amazon fire phone	2014	32	14
amazon fire phone	2014	33	12
amazon fire phone	2014	34	14
amazon fire phone	2014	35	11
asus chromebook	2014	18	21
asus chromebook	2014	19	42
asus chromebook	2014	20	27
asus chromebook	2014	21	41
asus chromebook	2014	22	38
asus chromebook	2014	23	52
asus chromebook	2014	24	49
asus chromebook	2014	25	43
asus chromebook	2014	26	38
asus chromebook	2014	27	49
asus chromebook	2014	28	52
asus chromebook	2014	29	50
asus chromebook	2014	30	49
asus chromebook	2014	31	56
asus chromebook	2014	32	56
asus chromebook	2014	33	62
asus chromebook	2014	34	49
asus chromebook	2014	35	47
asus chromebook	2014	36	6
dell inspiron desktop	2014	18	18
dell inspiron desktop	2014	19	58
dell inspiron desktop	2014	20	36
dell inspiron desktop	2014	21	52
dell inspiron desktop	2014	22	41
dell inspiron desktop	2014	23	52
dell inspiron desktop	2014	24	53

dell inspiron desktop	2014	25	59
dell inspiron desktop	2014	26	52
dell inspiron desktop	2014	27	60
dell inspiron desktop	2014	28	53
dell inspiron desktop	2014	29	56
dell inspiron desktop	2014	30	54
dell inspiron desktop	2014	31	54
dell inspiron desktop	2014	32	44
dell inspiron desktop	2014	33	57
dell inspiron desktop	2014	34	37
dell inspiron desktop	2014	35	49
dell inspiron desktop	2014	36	1
dell inspiron notebook	2014	18	46
dell inspiron notebook	2014	19	77
dell inspiron notebook	2014	20	83
dell inspiron notebook	2014	21	84
dell inspiron notebook	2014	22	80
dell inspiron notebook	2014	23	92
dell inspiron notebook	2014	24	103
dell inspiron notebook	2014	25	99
dell inspiron notebook	2014	26	105
dell inspiron notebook	2014	27	89
dell inspiron notebook	2014	28	89
dell inspiron notebook	2014	29	103
dell inspiron notebook	2014	30	113
dell inspiron notebook	2014	31	127
dell inspiron notebook	2014	32	113
dell inspiron notebook	2014	33	104
dell inspiron notebook	2014	34	110
dell inspiron notebook	2014	35	105
dell inspiron notebook	2014	36	9
hp pavilion desktop	2014	18	14
hp pavilion desktop	2014	19	37
hp pavilion desktop	2014	20	40
hp pavilion desktop	2014	21	30
hp pavilion desktop	2014	22	44
hp pavilion desktop	2014	23	38
hp pavilion desktop	2014	24	54
hp pavilion desktop	2014	25	56
hp pavilion desktop	2014	26	52
hp pavilion desktop	2014	27	46

hp pavilion desktop	2014	28	56
hp pavilion desktop	2014	29	56
hp pavilion desktop	2014	30	58
hp pavilion desktop	2014	31	42
hp pavilion desktop	2014	32	51
hp pavilion desktop	2014	33	51
hp pavilion desktop	2014	34	38
hp pavilion desktop	2014	35	36
hp pavilion desktop	2014	36	1
htc one	2014	18	16
htc one	2014	19	19
htc one	2014	20	30
htc one	2014	21	29
htc one	2014	22	21
htc one	2014	23	24
htc one	2014	24	20
htc one	2014	25	20
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htc one	2014	35	25
htc one	2014	36	2
ipad air	2014	18	27
ipad air	2014	19	52
ipad air	2014	20	55
ipad air	2014	21	59
ipad air	2014	22	51
ipad air	2014	23	58
ipad air	2014	24	41
ipad air	2014	25	57
ipad air	2014	26	57
ipad air	2014	27	56
ipad air	2014	28	55
ipad air	2014	29	54
ipad air	2014	30	52

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iphone 5	2014	18	65
iphone 5	2014	19	113
iphone 5	2014	20	115
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iphone 5s	2014	34	65
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kindle fire	2014	18	6

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lenovo thinkpad	2014 19	153	
lenovo thinkpad	2014 20	178	
lenovo thinkpad	2014 21	173	
lenovo thinkpad	2014 22	167	
lenovo thinkpad	2014 23	176	
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lenovo thinkpad	2014 26	197	
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lenovo thinkpad	2014 30	209	
lenovo thinkpad	2014 31	206	
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lenovo thinkpad	2014 33	179	
lenovo thinkpad	2014 34	191	
lenovo thinkpad	2014 35	193	
lenovo thinkpad	2014 36	16	
mac mini	2014 18	6	
mac mini	2014 19	13	
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mac mini	2014 36	2
macbook air	2014 18	54
macbook air	2014 19	121
macbook air	2014 20	112
macbook air	2014 21	119
macbook air	2014 22	110
macbook air	2014 23	145
macbook air	2014 24	124
macbook air	2014 25	152
macbook air	2014 26	121
macbook air	2014 27	134
macbook air	2014 28	142
macbook air	2014 29	148
macbook air	2014 30	148
macbook air	2014 31	159
macbook air	2014 32	147
macbook air	2014 33	125
macbook air	2014 34	133
macbook air	2014 35	136
macbook air	2014 36	10
macbook pro	2014 18	143
macbook pro	2014 19	252
macbook pro	2014 20	266
macbook pro	2014 21	256
macbook pro	2014 22	247
macbook pro	2014 23	251
macbook pro	2014 24	266

macbook pro	2014	25	255
macbook pro	2014	26	275
macbook pro	2014	27	269
macbook pro	2014	28	302
macbook pro	2014	29	295
macbook pro	2014	30	295
macbook pro	2014	31	322
macbook pro	2014	32	321
macbook pro	2014	33	307
macbook pro	2014	34	312
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nexus 10	2014	36	2
nexus 5	2014	18	40
nexus 5	2014	19	73
nexus 5	2014	20	87
nexus 5	2014	21	103
nexus 5	2014	22	91
nexus 5	2014	23	96
nexus 5	2014	24	88
nexus 5	2014	25	87
nexus 5	2014	26	89
nexus 5	2014	27	87

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samsung galaxy note	2014	36	1
samsung galaxy s4	2014	18	52
samsung galaxy s4	2014	19	82
samsung galaxy s4	2014	20	91
samsung galaxy s4	2014	21	93
samsung galaxy s4	2014	22	84
samsung galaxy s4	2014	23	105
samsung galaxy s4	2014	24	99
samsung galaxy s4	2014	25	101
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samsung galaxy s4	2014	27	112
samsung galaxy s4	2014	28	116
samsung galaxy s4	2014	29	122
samsung galaxy s4	2014	30	123
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samsung galaxy s4	2014	32	100
samsung galaxy s4	2014	33	82
samsung galaxy s4	2014	34	80
samsung galaxy s4	2014	35	90
samsung galaxy s4	2014	36	6
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windows surface	2014	33	10
windows surface	2014	34	15
windows surface	2014	35	18
windows surface	2014	36	3

E)Email Engagement Analysis

Query:

select 100.0*sum(case when email_category = 'email_open' then 1 else 0 end)/sum(case when email_category = 'email_sent' then 1 else 0 end) as 'email_open rate',

100.0*sum(case when email_category = 'email_click' then 1 else 0 end)/sum(case when email_category = 'email_sent' then 1 else 0 end) as 'email_click_rate' From(select *,

case

when action in ('sent_weekly_digest','sent_reemgagement_email') then 'email_sent' when action in ('email_open') then 'email_open' when action in('email_clickthrough') then 'email_click' end as email_category from emailevents)a

```
email_open_rate email_click_rate
35.72564 15.73332
```

```
119 •
       select
       100.0*sum(case when email_category = 'email_open' then 1 else 0 end)/sum(case when email_category = 'email_sent
120
       100.0*sum(case when email_category = 'email_click' then 1 else 0 end)/sum(case when email_category = 'email_sent
122 ⊝ From(select *,
when action in ('sent_weekly_digest', 'sent_reemgagement_email') then 'email_sent'
124
       when action in ('email open') then 'email open'
125
      when action in('email clickthrough') then 'email click'
126
127
      end as email_category
      from emailevents)a
129
130
131
                                   Export: Wrap Cell Content: IA
15.73332
```

Project details:

<u>Description</u>: The purpose of this project is to identify the metrics, to find the retention data, engagement analysis and s on

Approach: As a first step I went through the project to identify the topics that I need to implement in the project. later I learnt those concepts and implemented in the project.

Tech-stack used: MySQL workbench 8.0

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

<u>Insights</u>: The insights we can draw from this project are engagement analysis, cohort analysis, getting retention data and so on.

Result : I was able to extract the required data as per the project given. I gained knowledge in new concepts like cohort analysis, loading data from excel into mysql workbench and so on.