**Entrega 1 Análisis de dades**

**14-10-2019**

**Provide the MySQL query statement and the resulting graph for each of the following KPIs.**

**Copy both the query code and the graph below each question**

**MONETIZATION**

Make a list of all paying users (full name and amount spent) ordered in descending order by amount spent

*-- create or replace view PayingUsers as*

*select*

*concat(u.firstName, " ", u.lastName) as "Full Name",*

*ifnull(sum(t.totalPrice), 0) as "€Spent"*

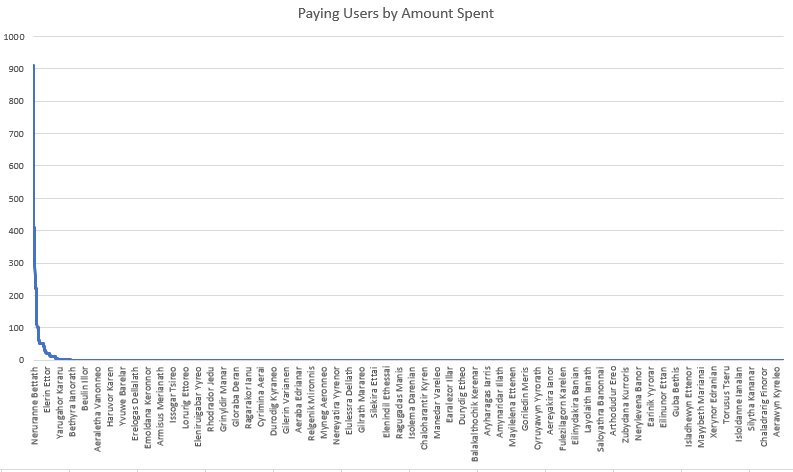
*from users as u*

*left join sessions as s on u.user\_id = s.player\_id*

*left join transactions as t on s.session\_id = t.session\_id*

*group by u.user\_id*

*order by 2 desc*



Get ARPDAU (by date)

*-- create or replace view ARPDAU as*

*select*

*date(d.date) as "Date",*

*ifnull(sum(t.totalPrice)/count(distinct s.player\_id), 0) as "ARPDAU"*

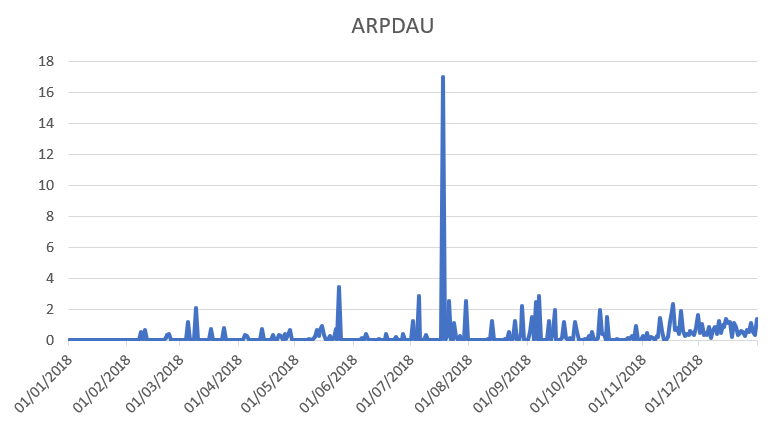
*from dates as d*

*left join sessions as s on date(s.start) = date(d.date)*

*left join transactions as t on s.session\_id = t.session\_id*

*group by 1*

*order by 2 desc*



Get ARPDAU (by date) by gender

-- create or replace view ARPDAU\_Gender as

select

date(d.date) as "Date",

ifnull(sum(case when u.sex = "M" then (t.totalPrice) end) / count(distinct case when u.sex = "M" then s.player\_id end), 0) as "ARPDAU\_Men",

ifnull(sum(case when u.sex = "F" then (t.totalPrice) end) / count(distinct case when u.sex = "F" then s.player\_id end), 0) as "ARPDAU\_Women"

from dates as d

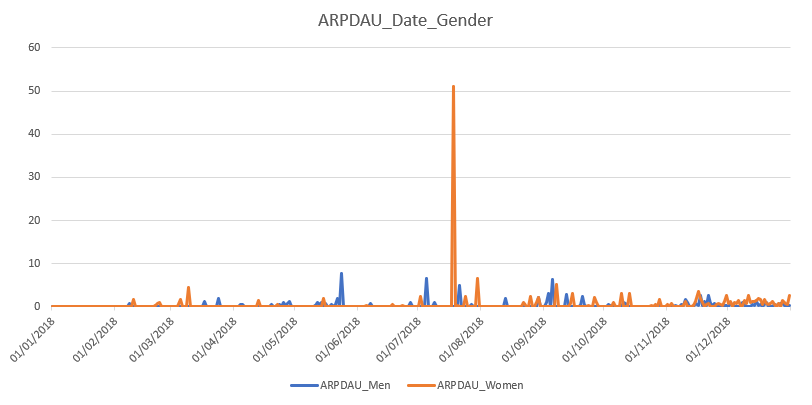
left join sessions as s on date(s.start) = date(d.date)

left join transactions as t on s.session\_id = t.session\_id

left join users as u on u.user\_id = s.player\_id

group by 1

order by 1 desc



Get ARPPU by country

-- create or replace view ARPPU\_Country as

select

u.country as Country,

sum(t.totalPrice) / count(u.user\_id) as ARPPU

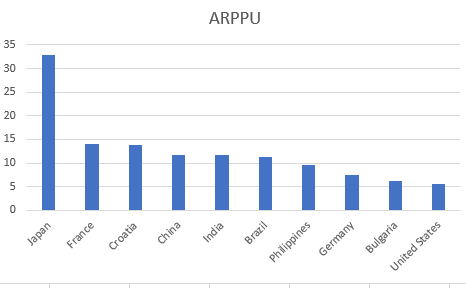
from transactions as t

left join sessions as s on s.session\_id = t.session\_id

left join users as u on u.user\_id = s.player\_id

group by u.country

order by 2 desc



Get ARPU by country

-- create or replace view ARPU\_Country as

select

u.country as Country,

sum(t.totalPrice) / count(u.user\_id) as ARPU

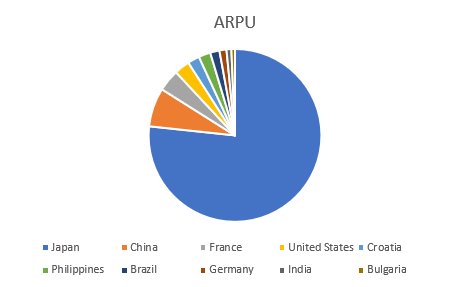
from users as u

left join sessions as s on s.player\_id = u.user\_id

left join transactions as t on t.session\_id = s.session\_id

group by 1

order by 2 desc



Get conversion rate (transactions / user) by date

select

date(d.date) as "Date",

ifnull(count(t.transaction\_id) / count(u.user\_id), 0) as "Conversion Rate"

from dates as d

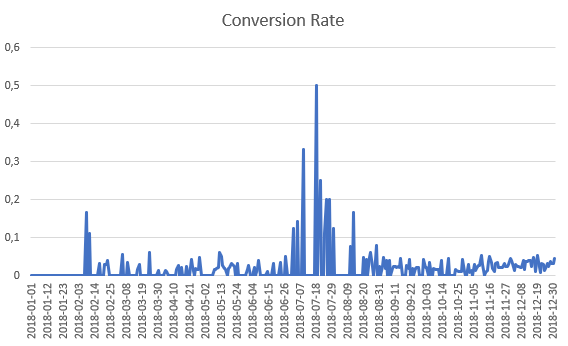
left join sessions as s on date(s.start) = date(d.date)

left join users as u on u.user\_id = s.player\_id

left join transactions as t on t.session\_id = s.session\_id

group by 1

order by 1



Revenue per transaction by date

select

date(d.date) as "Date",

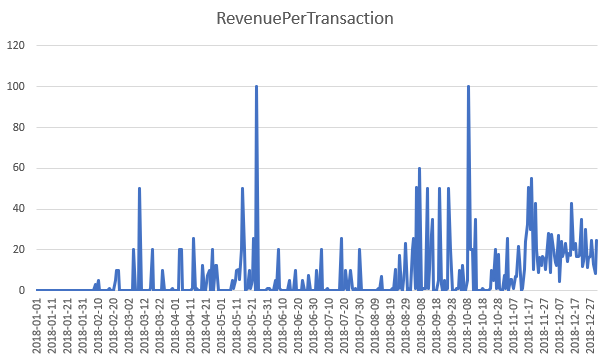
ifnull(sum(t.totalPrice) / count(t.transaction\_id), 0) as "RevenuePerTransaction"

from dates as d

left join transactions as t on date(t.date) = date(d.date)

group by 1

order by 1



Number of transactions by date

select

date(d.date) as "Date",

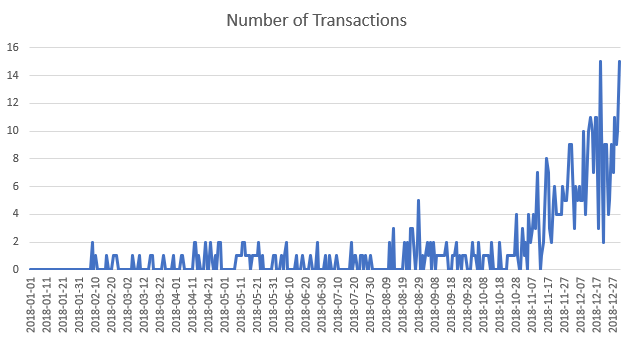
count(t.transaction\_id) as "Number of Transactions"

from dates as d

left join transactions as t on date(t.date) = date(d.date)

group by 1

order by 1



Revenue per item by date

select

date(d.date) as "Date",

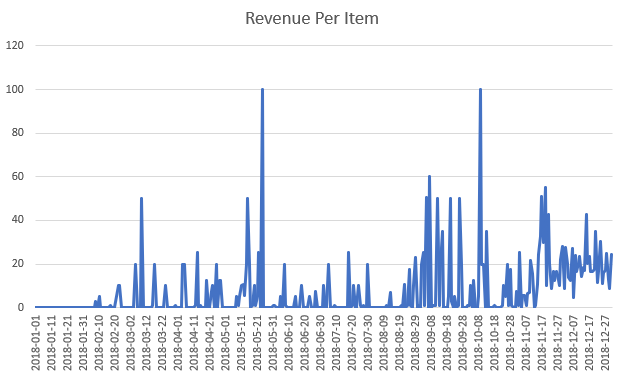
ifnull(sum(t.totalPrice) / sum(t.amount), 0) as "Revenue Per Item"

from dates as d

left join transactions as t on date(t.date) = date(d.date)

group by 1

order by 1



**USERS**

Session count (number of sessions) per day

select

date(d.date) as "Date",

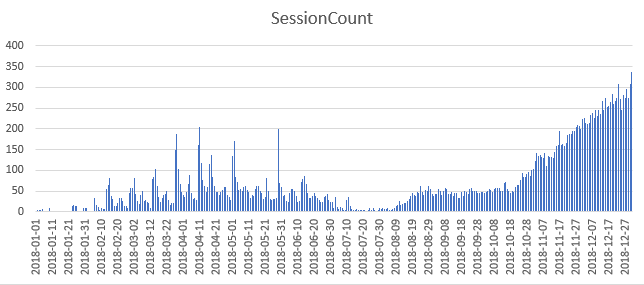
count(session\_id) as "SessionCount"

from dates as d

left join sessions as s on date(s.start) = date(d.date)

group by 1

order by 1



Get new users per day

select

date(d.date) as "Date",

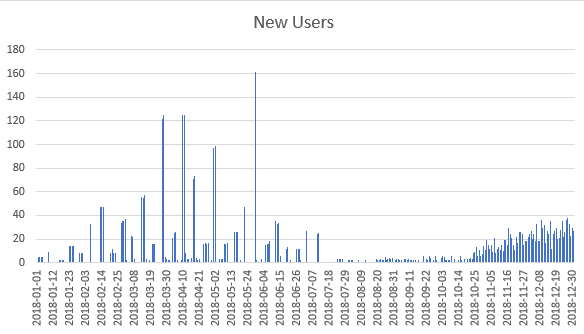
count(u.user\_id) as "New Users"

from dates as d

left join users as u on date(u.dateCreated) = date(d.date)

group by 1

order by 2 desc



Get DAU per day (daily active users per day)

-- create or replace view DAU as

select

date(d.date) as "Date",

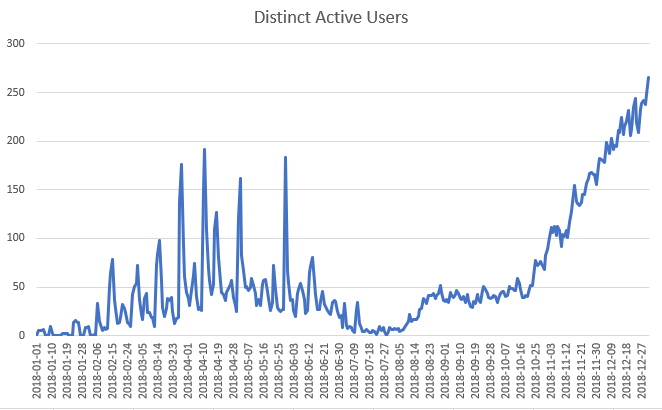
count(distinct s.player\_id) as "Distinct Active Users"

from dates as d

left join sessions as s on date(s.start) = date(d.date)

group by 1

order by 1



Get DAU per day by gender

select

date(d.date) as "Date",

count(distinct case when u.sex = "M" then s.player\_id end) as "DAU\_Men",

count(distinct case when u.sex = "F" then s.player\_id end) as "DAU\_Women"

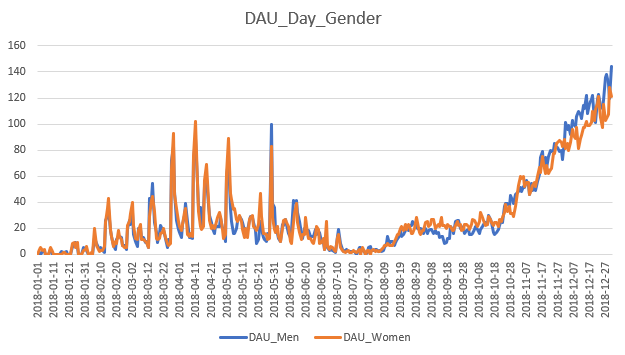
from dates as d

left join sessions as s on date(s.start) = date(d.date)

left join users as u on u.user\_id = s.player\_id

group by 1

order by 1



Get sessions/user per day

select

date(d.date) as "Date",

ifnull(count(s.session\_id) / count(distinct s.player\_id), 0) as "Sessions by User"

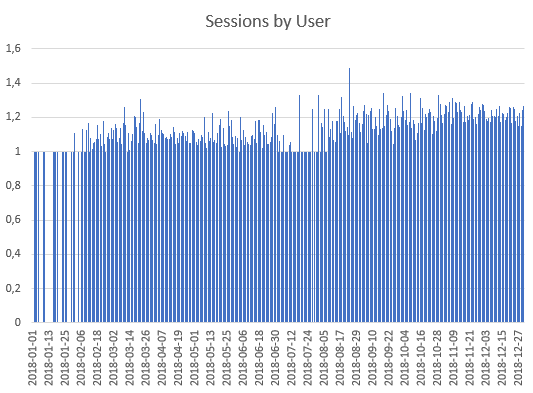
from dates as d

left join sessions as s on date(s.start) = date(d.date)

left join users as u on u.user\_id = s.player\_id

group by 1

order by 1



Get avg session length per day

select

date(d.date) as "Date",

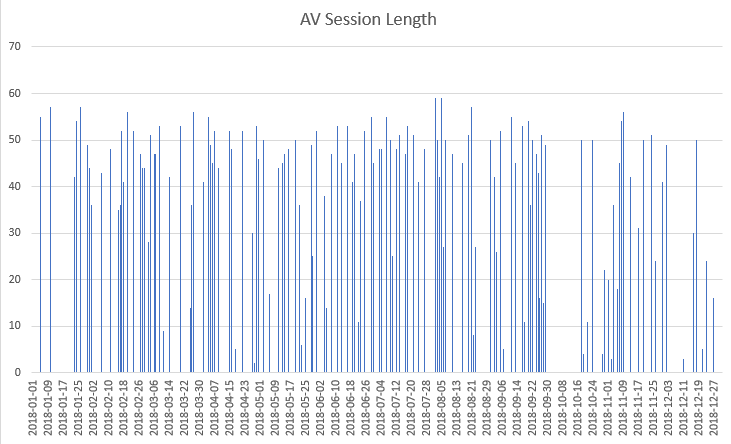
ifnull(minute(avg(s.lastControl - s.start)), 0) as "AV Session Length"

from dates as d

left join sessions as s on date(s.start) = date(d.date)

group by 1

order by 1



**RETENTION**

Get D1 per day

select

date(d.date) as "Date",

-- count(distinct s.player\_id) as "People",

-- count(distinct case when s.player\_id = \_s.player\_id and date(\_s.start) != date(d.date) then s.player\_id end) as "People\_Returned",

ifnull((count(distinct case when s.player\_id = \_s.player\_id and date(\_s.start) != date(d.date) then s.player\_id end) / count(distinct s.player\_id) \* 100), 0) as "D1"

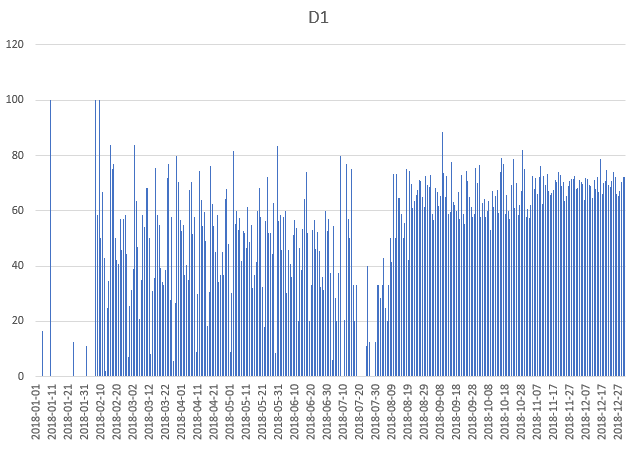
from dates as d

left join sessions as s on date(d.date) = date(s.start)

left join sessions as \_s on date(\_s.start) <= date(d.date) and date(\_s.start) >= date(d.date) - interval 1 day

group by 1

order by 1



Get D3 per day

select

date(d.date) as "Date",

-- count(distinct s.player\_id) as "People",

-- count(distinct case when s.player\_id = \_s.player\_id and date(\_s.start) != date(d.date) then s.player\_id end) as "People\_Returned",

ifnull((count(distinct case when s.player\_id = \_s.player\_id and date(\_s.start) != date(d.date) then s.player\_id end) / count(distinct s.player\_id) \* 100), 0) as "D3"

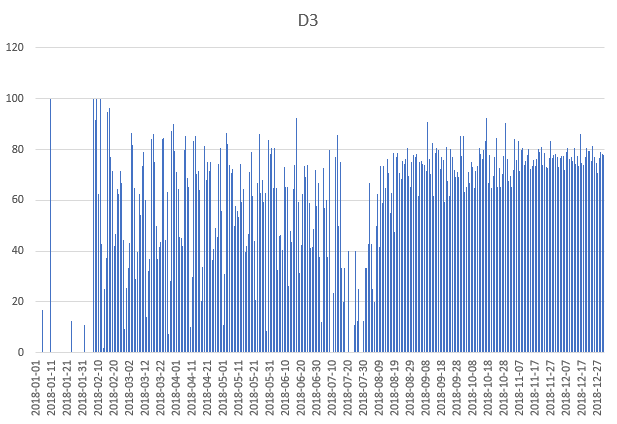
from dates as d

left join sessions as s on date(d.date) = date(s.start)

left join sessions as \_s on date(\_s.start) <= date(d.date) and date(\_s.start) >= date(d.date) - interval 3 day

group by 1

order by 1



Get D7 per day

select

date(d.date) as "Date",

-- count(distinct s.player\_id) as "People",

-- count(distinct case when s.player\_id = \_s.player\_id and date(\_s.start) != date(d.date) then s.player\_id end) as "People\_Returned",

ifnull((count(distinct case when s.player\_id = \_s.player\_id and date(\_s.start) != date(d.date) then s.player\_id end) / count(distinct s.player\_id) \* 100), 0) as "D7"

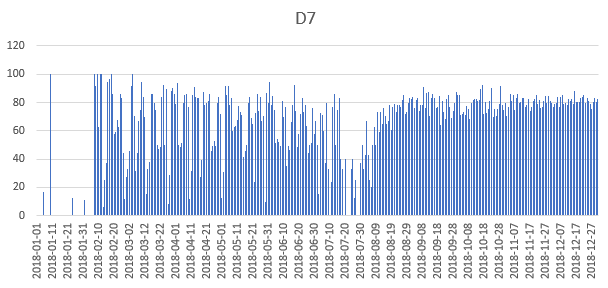
from dates as d

left join sessions as s on date(d.date) = date(s.start)

left join sessions as \_s on date(\_s.start) <= date(d.date) and date(\_s.start) >= date(d.date) - interval 7 day

group by 1

order by 1



Get stickiness (DAU/MAU) per day

-- CALCULATE STICKINESS

select

date(d.date) as "Date",

ifnull(MAU.DAU / MAU.MAU, 0) as "Stickiness"

from dates as d

left join

(

-- CALCULATE MAU

select

DAU.Date as "Date",

DAU.DAU as "DAU",

count(distinct s.player\_id) as "MAU"

from

(

-- CALCULATE DAU

select

date(d.date) as "Date",

count(distinct s.player\_id) as "DAU"

from dates as d

left join sessions as s on date(s.start) = date(d.date)

group by 1

order by 2 desc

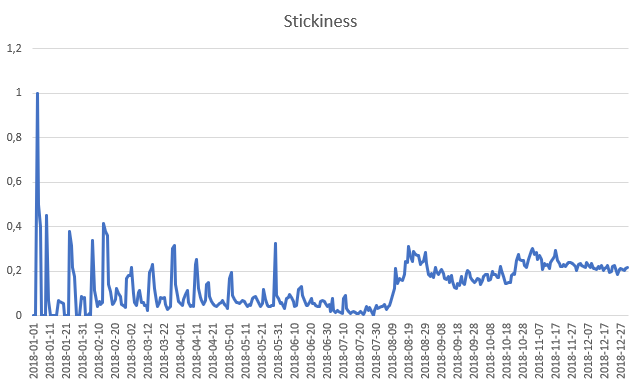
) as DAU

left join sessions as s on date(s.start) < date(DAU.Date) and date(s.start) > date(DAU.Date) - interval 1 month

group by 1

order by 1

) as MAU on date(MAU.Date) = date(d.date)



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