Day 8

Problem Statement:

Write an SQL query that reports for each install date, the number of players that installed

the game on that day and the day 1 retention?

Solution Code:

/*using ivy_sql_internship databasse*/

use ivy_sql_internship;

/*Creating table activity*/

create table Activity (player_id int, device_id int, event_date date, games_played int);

/*inserting value in table*/

insert into Activity (player_id,device_id,event_date,games_played)

values

(1,2,"2016-03-01",5),

(1,2,"2016-03-02",6),

(2,3,"2017-06-25",1),

(3,1,"2016-03-01",0),

(3,4,"2016-07-03",5);

/*Checking the table*/

select * from Activity;

/*Write an SQL query that reports for each install date, the number of players that installed

the game on that day and the day 1 retention.*/

select a1.event_date as install_dt, count(a1.player_id) as installs, round(count(a3.player_id) /
count(a1.player_id), 2) as Day1_retention

   from Activity a1 left join Activity a2

   on a1.player_id = a2.player_id and a1.event_date > a2.event_date

   left join Activity a3

   on a1.player_id = a3.player_id and datediff(a3.event_date, a1.event_date) = 1

   where a2.event_date is null

   group by a1.event_date;

Screenshot of the Code:


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10        (2,3,"2017-06-25",1),
11        (3,1,"2016-03-01",0),
12        (3,4,"2016-07-03",5);
13        /*Checking the table*/
14    ●   select * from Activity;
15        /*Write an SQL query that reports for each install date, the number of players that installed
16        the game on that day and the day 1 retention.*/
17
18    ●   select a1.event_date as install_dt, count(a1.player_id) as installs, round(count(a3.player_id) / count(a1.player_id), 2) as Day1_retention
19            from Activity a1 left join Activity a2
20            on a1.player_id = a2.player_id and a1.event_date > a2.event_date
21            left join Activity a3
22            on a1.player_id = a3.player_id and datediff(a3.event_date, a1.event_date) = 1
23            where a2.event_date is null
24            group by a1.event_date;
```

install_dt	installs	Day1_retention
2016-03-01	2	0.50
2017-06-25	1	0.00