Exhibit A.

Given tab delimited input file with four columns with logs from music streaming portal:

- PLAY_ID unique 16-byte identifier given in hexadecimal string
- SONG_ID Identifier of a song that a client played
- CLIENT_ID Identifier of a client
- PLAY_TS date time of the client playing a song (can be just date, or date and time)

Output required is a table that shows the distribution distinct song play counts per user on date of August 10, 2016, as per below example.

Example. input data is below table (highlighted lines with PLAY_TS on August 10, 2016 with yellow background):

PLAY_ID	SONG_ID	CLIENT_ID	PLAY_TS
44BB190BC2493964E053CF0A000AB546	6164	1	09/08/2016 09:16:00
44BB190BC24A3964E053CF0A000AB546	544	3	10/08/2016 13:54:00
44BB190BC24B3964E053CF0A000AB546	9648	3	08/08/2016 06:08:00
44BB190BC24C3964E053CF0A000AB546	7565	2	10/08/2016 17:30:00
44BB190BC24D3964E053CF0A000AB546	8995	1	11/08/2016 02:40:00
44BB190BC24E3964E053CF0A000AB546	4407	1	08/08/2016 07:30:00
44BB190BC24F3964E053CF0A000AB546	5839	2	10/08/2016 02:40:00
44BB190BC2503964E053CF0A000AB546	548	3	09/08/2016 20:45:00
44BB190BC2513964E053CF0A000AB546	376	3	10/08/2016 04:57:00
44BB190BC2523964E053CF0A000AB546	3403	2	08/08/2016 21:14:00
44BB190BC2533964E053CF0A000AB546	7256	2	10/08/2016 06:29:00
44BB190BC2543964E053CF0A000AB546	4291	3	08/08/2016 09:26:00
44BB190BC2553964E053CF0A000AB546	5722	2	08/08/2016 23:33:00
44BB190BC2563964E053CF0A000AB546	9857	1	10/08/2016 22:05:00
44BB190BC2573964E053CF0A000AB546	3122	2	09/08/2016 08:35:00
44BB190BC2583964E053CF0A000AB546	217	2	10/08/2016 13:20:00
44BB190BC2593964E053CF0A000AB546	3022	1	10/08/2016 17:06:00
44BB190BC25A3964E053CF0A000AB546	9857	1	10/08/2016 15:06:00
44BB190BC25B3964E053CF0A000AB546	2168	3	11/08/2016 13:30:33

As it can be seen from above table, client 1 played songs 3 times during 10/08/2016, but 2 of them were same, so the client 1 played 2 distinct songs (9857 and 3022). Client 2 played 4 distinct songs, client 3 played 2 distinct songs. In overall there are 2 clients that played 2 distinct songs, and 1 client that played 4 distinct songs. Output result expected is as below (can be tab delimited file or comma delimited file)

DISTINCT_PLAY_COUNT	CLIENT_COUNT
2	2
4	1

Please use below link to get input file for assignment:

https://pi.works/exhibit-a