

Important Notes:

All queries should be submitted in a sql file with the query number as the file name. set prefix as 3-2 to differentiate the query file for the day.

The query definition should be in this file.

CASE 1

Table: Activity

(Column Name		Гуре	Ι.
+-		-+-		+
	player_id		int	
	device_id		int	l
	event_date		date	
	games_played		int	

SQL Schema

(player_id, event_date) is the primary key of this table. This table shows the activity of players of some games. Each row is a record of a player who logged in and played a number of games

(possibly 0) before logging out on someday using some device.

Input:

Activity table:

+	'	+ event_date	++ games_played +
1 1 2 3 3	2 3 1	2016-03-01 2016-05-02 2017-06-25 2016-03-02 2018-07-03	6 1

Question 1: Write an SQL query to report the first login date for each player. Return the result table in any order.

The query result format is in the following example. Output:

+		-		+
r	olayer_id		first_login	
+		 		+
1	L		2016-03-01	
2	2		2017-06-25	
3	3		2016-03-02	
+		⊢ _		+

Question 2: Write an SQL query to report the device that is first logged in for each player. Return the result table in any order.

The query result format is in the following example.

Output:

+	++
player_id	device_id
1 2 3	2
+	++

Question 3: Write an SQL query to report for each player and date, how many games played so far by the player. That is, the total number of games played by the player until that date. Check the example for clarity. Return the result table in any order.

The query result format is in the following example.

Input:

Activity table:

+		+-		+-		+-		+
	player_id		device_id		event_date		games_played	
т 	1	т - 	2	т - 	2016-03-01	т- 	5	T
	1	İ		ĺ	2016-05-02	Ĺ	6	İ
	1		3		2017-06-25		1	
	3		1		2016-03-02		0	

Explanation:

For the player with id 1, 5 + 6 = 11 games played by 2016-05-02, and 5 + 6 + 1 = 12 games played by 2017-06-25.

For the player with id 3, 0 + 5 = 5 games played by 2018-07-03. Note that for each player we only care about the days when the player logged in.

CASE 2

Write an SQL query to report all the classes that have at least five students. Return the result table in any order.

Table: Courses

İ	Column Name	İ	Type	İ
İ	student class	 	varchar varchar	İ

(student, class) is the primary key column for this table. Each row of this table indicates the name of a student and the class in which they are enrolled.

The query result format is in the following example.

Example 1:

Input:

Courses table:

+	-+-	+
student		class
+	-+-	+
A		Math
B		English
C		Math
D		Biology
E		Math
F		Computer
G		Math
H		Math
I		Math
+	-+-	+

Output:

+-		
	class	
+-		
	Math	
+-		

Explanation:

- Math has 6 students, so we include it.
- English has 1 student, so we do not include it.
- Biology has 1 student, so we do not include it.

- Computer has 1 student, so we do not include it.

CASE 3

Write an SQL query to report the name, population, and area of the big countries.

Table: World

+	-+-	+
Column Name		Type
+	-+-	+
name	1	varchar
continent		varchar
area		int
population		int
gdp		int
+	- + -	+

name is the primary key column for this table. Each row of this table gives information about the name of a country, the continent to which it belongs, its area, the population, and its GDP value.

A country is big if:

- it has an area of at least three million (i.e., 3000000 km^2), or
- it has a population of at least twenty-five million (i.e., 25000000).

The query result format is in the following example.

Example 1:

Andorra	Europe	468	78115	3712000000
 Angola 	Africa	1246700	20609294	10099000000
+	++			+
name	+ population +	+ area +	+ -	
Afghanista Algeria	•	652230 2381741		