# **BUAN 6320**

## **Database Foundations for Business Analytics**

# **Assignment 5**

## **Problem 1**

Create the following table in your database with the following schema:

Table: Activity

+	-+	-+
Column Name	'   Туре -+	    -+
player_id   device_id   event_date   games_played	int   int   date   int	        -+

(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.

## Add the following data to your tables:

#### Input:

Activity table:

+		+-		+-		+-		+
į	player_id		device_id		event_date		games_played	İ
İ	1 1 2 3	     	2 3 1	     	2016-03-01 2016-05-02 2017-06-25 2016-03-02 2018-07-03	     	6 1 0	+
+		' + =	·	' + -		+-		+

Write an SQL query to report the first login date for each player.

Return the result table in any order.

The result should be:

+-	player_id	+- 	first_login	+
+-	1	•	2016-03-01	+
	3	•	2017-06-25 2016-03-02	
+-		+-		+

# Problem 2

Create the following table in your database with the following schema:

Table: Activity

+	+	+
Column Name	Type	1
+	+	+
player_id	int	
device_id	int	
event_date	date	
games_played	int	
+	+	+

(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.

## Add the following data to your tables:

### Input:

Activity table:

player_id	device_id	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

Write an SQL query to report the device that is first logged in for each player.

Return the result table in any order.

The results should be:

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

# Problem 3

Create the following table in your database with the following schema:

Table: Employee

employee_id	Column Name	-+   Type	·+ 
+	·		·+      +

employee id is the primary key for this table.

Each row of this table contains the ID of each employee and their respective team.

## Add the following data to your tables:

#### Input:

Employee Table:

+   +	employee_id	++   team_id
	1	8
	2	8     8
	4	7
	6	9 1
+		++

Write an SQL query to find the team size of each of the employees.

Return result table in any order.

The results should be:

+		+	<b>-</b> +
İ	employee_id	team_size	İ
+			-+
	1	3	
	2	3	
	3	3	
	4	1	
	5	2	
ı	6	2	- 1
+		+	-+

# Problem 4

Create the following tables in your database with the following schema:

Table: Person

Each row of this table contains an email. The emails will not contain uppercase letters.

### Add the following data to your tables:

#### Input:

Write an SQL query to delete all the duplicate emails, keeping only one unique email with the smallest id. Note that you are supposed to write a DELETE statement and not a SELECT one.

Return the result table in any order.

The results should be: