Exercises: Built-in Functions (2)

You can check your solutions here: https://judge.softuni.org/Contests/3135/Built-in-Functions-Part-2.

Part I – Queries for Diablo Database

Problem 1.   Games from 2011 and 2012 Year

Find the top 50 games ordered by start date, then by name of the game. Display only games from 2011 and 2012 year. Display start date in the format "**yyyy-MM-dd**".

Example

Name	Start
Rose Royalty	2011-01-05
London	2011-01-13
Broadway	2011-01-16
…	…

Problem 2.   User Email Providers

Find all users along with information about their email providers. Display the username and email provider. Sort the results by email provider alphabetically, then by username.

Example

Username	Email Provider
Pesho	abv.bg
monoxidecos	astonrasuna.com
bashsassafras	balibless
…	…

Problem 3.   Get Users with IPAdress Like Pattern

Find all users along with their IP addresses sorted by username alphabetically. Display only rows that IP address matches the pattern: "*****.1^.^.*****".

Legend: ***** - one symbol, **^** - one or more symbols
Example

Username	IP Address
bindbawdy	192.157.20.222
evolvingimportant	223.175.227.173
inguinalself	255.111.250.207
…	…

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Problem 4. Show All Games with Duration and Part of the Day

Find all games with part of the day and duration sorted by game name alphabetically then by duration (alphabetically, not by the timespan) and part of the day (all ascending). **Parts of the day** should be **Morning** (time is >= 0 and < 12), **Afternoon** (time is >= 12 and < 18), **Evening** (time is >= 18 and < 24). **Duration** should be **Extra Short** (smaller or equal to 3), **Short** (between 4 and 6 including), **Long** (greater than 6) and **Extra Long** (without duration).

Example

Game	Part of the Day	Duration
Ablajeck	Morning	Long
Ablajeck	Afternoon	Short
Abregado Rae	Afternoon	Long
Abrion	Morning	Extra Short
Acaeria	Evening	Long
…	…	…

Part II – Date Functions Queries

Problem 5. Orders Table

You are given a table **Orders(Id, ProductName, OrderDate)** filled with data. Consider that the **payment** for that order must be accomplished **within 3 days after the order date**. Also the **delivery date is up to 1 month**. Write a query to show each product's **name**, **order date**, **pay and deliver due dates**.

Original Table

Id	ProductName	OrderDate
1	Butter	2016-09-19 00:00:00.000
2	Milk	2016-09-30 00:00:00.000
3	Cheese	2016-09-04 00:00:00.000
4	Bread	2015-12-20 00:00:00.000
5	Tomatoes	2015-12-30 00:00:00.000
…	…	…

Output

ProductName	OrderDate	Pay Due	Deliver Due
Butter	2016-09-19 00:00:00.000	2016-09-22 00:00:00.000	2016-10-19 00:00:00.000
Milk	2016-09-30 00:00:00.000	2016-10-03 00:00:00.000	2016-10-30 00:00:00.000
Cheese	2016-09-04 00:00:00.000	2016-09-07 00:00:00.000	2016-10-04 00:00:00.000
Bread	2015-12-20 00:00:00.000	2015-12-23 00:00:00.000	2016-01-20 00:00:00.000
Tomatoes	2015-12-30 00:00:00.000	2016-01-02 00:00:00.000	2016-01-30 00:00:00.000
…	…	…	…

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Problem 6.   People Table

Create a table **People(Id, Name, Birthdate).** Write a query to **find age in years**, **months**, **days** and **minutes** for each person for the **current time** of executing the query.

Original Table

Id	Name	Birthdate
1	Victor	2000-12-07 00:00:00.000
2	Steven	1992-09-10 00:00:00.000
3	Stephen	1910-09-19 00:00:00.000
4	John	2010-01-06 00:00:00.000
…	…	…

Example Output

Name	Age in Years	Age in Months	Age in Days	Age in Minutes
Victor	16	189	5754	8286787
Steven	24	288	8764	12621187
Stephen	106	1272	38706	55737667
John	6	80	2437	3510307
…	…	…	…	…