

PHP Piscine Day 05

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Summary: This document is the day05's subject for the PHP Piscine.

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Chapter I

Préambule

Hundred poorly lifting forest era shelters

Cesserent rifles positions game with suspended cartridge. Will the survivors cemeteries unexpected as it. Dentelees Capucines epaissies does one in. Culbutent comrades and aptake spring announced. The books pole Roc people wife, who OTC tip. A thou offer flat atrocious ah. Come among top North wood was knows since rit. Must the and this quickly among or can true.

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Chapter II

General Instructions

- Only this page will serve as reference; do not trust rumors.
- Watch out! This document could potentially change up to an hour before submission.
- Only the work submitted on the repository will be accounted for during peer-2-peer correction.
- As when you did C Piscine, your exercises will be corrected by Moulinette.
- The language used is SQL.
- Requests must correctly work with mySQL.
- You must submit only one single request per exercise.
- Moulinette is very meticulous and strict in its evaluation of your work. It is entirely automated and there is no way to negotiate with it. So if you want to avoid bad surprises, be as thorough as possible.
- The submission of several requests for an exercise is a case of cheating. Cheating is sanctioned by the note or -42.
- These exercises are carefully laid out by order of difficulty from easiest to hardest. We will not take into account a successfully completed harder exercise if an easier one is not perfectly functional.
- You <u>cannot</u> leave <u>any</u> additional file in your repository other than those specified in the subject.
- Any questions? Ask your peer on the right. Otherwise, try your peer on the left.
- Your reference guide is called Google / the Internet / http://www.php.net /
- Remember discussings on the Forum. The solution to your problem is probably there already. Otherwise, you will start the conversation.
- Examine the examples thoroughly. They could very well call for details that are not explicitly mentioned in the subject . . .
- By Odin, by Thor! Use your brain!!!

PHP Piscine Day 05

• an id, it must be your table's primary key, and must be auto-incremented.

- a login, with the length of a standard student login as maximum size, and by default the value must be 'toto'
- a multiple choice **group** with only the following possibilities: 'staff', 'student' and 'other' (see ENUM)
- a creation_date, with the following format: YYYY-MM-DD

Fields must not be NULL; ; Be sure to observe the attributes' order.

Chapter III

Manipulate my database

III.1 Exercise 00 : db_bocal

Г		- I
/	Exercise 00	
	Database creation	
	Turn-in directory : $ex00/$	
	Files to turn in: ex00.sql	
	Allowed functions: Everything is allowed	
	Notes: n/a	

The objective is to create a database named after your login preceded by 'db_'. You will use this database for the next exercises. You must submit only the SQL request you performed.

III.2 Exercise 01 : ft_table

		Exercise 01		
	/	Creating your first table		
Turn-in	directory: $ex01/$			
Files to	turn in: ex01.sql			
Allowed functions: Everything is allowed				
Notes:	n/a			

Using the file base_student.sql, you must find a way to fill your database.

Create a table named 'ft_table', it will be used to list the students and the staff.

The table must contain the following in the below order:

III.3 Exercise 02: Mass data

	Exercise 02	
	Fill your table	
Turn-in directory: es	x02/	
Files to turn in : ex0	2.sql	
Allowed functions: E	verything is allowed	
Notes : n/a		

Now that your table has been created, let us proceed with the filling. You will add the five users:

- 'loki' is 'staff', created on the '2013-05-01'
- 'scadoux' is 'student', created on the '2014-01-01'
- 'chap' is 'staff', created on the '2011-04-27'
- 'bambou' is 'staff', created on the '2014-03-01'
- 'fantomet' is 'staff', created on the '2010-04-03'

III.4 Exercise 03: Copy!

	Exercise 03	
/	Copy a table	/
Turn-in	directory: $ex03/$	/
Files to	turn in: ex03.sql	/
Allowed	functions: Everything is allowed	/
Notes:	n/a	/

As you may have noticed, it is tedious to manually write insertions. The next step is therefore to fill your table using the second table's data.

You'll select the users with an 'a' in their last_name from the table user_card. The selected login must be copied only if their size is strictly less than 9 characters. You must order them alphabetically in ascending order of their last_name and limit the number of copied users to 10. The last_name and birthdate will serve as login and creation_date. You'll insert these users in the 'other' group.

III.5 Exercise 04: Updates pending, please restart

E	xercise 04
D	ata update
Turn-in directory : $ex04/$	
Files to turn in : ex04.sql	
Allowed functions: Everything is all	Lowed
Notes : n/a	

If you paid attention, you used the member's birthdate as creation_date in your table. To restore a meaning to all this we'll now update your user's creation_date.

Add 20 years to the ${\tt creation_date},$ but only for the users that have an ${\tt id}$ bigger than 5.

III.6 Exercise 05: Little bit of cleaning

		Exercise 05	
	/	Data removal	
Turn-in	Turn-in directory: $ex05/$		
Files to	turn in: ex05.sql		
Allowed	Allowed functions: Everything is allowed		
Notes:	n/a		

After having correctly modified the copied members, you must now remove the people you manually created earlier. Delete the 5 first members of your table.

Chapter IV

Data selection

IV.1 Exercise 06: Where is vinc'?

	Exercise 06	
	Data selection	
Turn-in directory : e	x06/	
Files to turn in : ex0	06.sql	
Allowed functions: I	Everything is allowed	
Notes : n/a		

Display the title and summary of all movies containing 'Vincent' in their summary. The research must be case-insensitive. Order the results by ascending id_film.

IV.2 Exercise 07: 42 is everywhere!

1		Exercise 07	
	/	Data selection	
Turn-in	directory: $ex07/$		
Files to	turn in: ex07.sql		
Allowed	d functions: Everytl	ning is allowed	
Notes:	n/a		

Display the title and summary of all movies containing 42 in their title or summary ordered from the shortest film to the longest.

IV.3 Exercise 08: The good old days...

2	Exercise 08	
	Data selection	
Turn-in director	ry: ex08/	
Files to turn in	: ex08.sql	
Allowed function	ons: Everything is allowed	
Notes : n/a	/	

Display the last_name, first_name and birthdate (only the date, not the time) from the table user_card in a column named 'birthdate' of everyone born in 1989, ordered alphabetically by last_name.

IV.4 Exercise 09: Short films

		Exercise 09				
	/	Data selection				
Turn-in	directory: $ex09/$					
Files to	turn in: ex09.sql					
Allowed	Allowed functions: Everything is allowed					
Notes:	n/a					

Display the number of 'short films' (with a duration smaller or equal to 42) in a column named 'nb_short-films'.

IV.5 Exercise 10: Aren't we good here?

	Exercise 10	
	Data selection	
Turn-in directory : ex10/		
Files to turn in : ex10.sq	1	
Allowed functions : Every	thing is allowed	
Notes : n/a		

Display the title in a 'Title' column, the summary in a 'Summary' column and the prod_year of every 'erotic' movie ordered by descending production year.

IV.6 Exercise 11: Money is essential

2	Exercise 11
	Data selection
Turn-in	$\frac{1}{2}$ directory: $ex11/$
Files to	turn in: ex11.sql
Allowed	d functions: Everything is allowed
Notes:	n/a

Display the last_name in uppercase in a 'NAME' column, the first_name and the price of the users having a subscription higher than 42 euros. Order result by ascending last_name and by ascending first_name

IV.7 Exercise 12: Why simplify things when they can be complicated?

E.	Exercise 12	
,	Data selection	
Turn-in directory : ϵ	ex12/	
Files to turn in : ex	12.sql	
Allowed functions:	Everything is allowed	
Notes : n/a		

Display the last_name and first_name of every member with a double last_name and/or first_name, alphabetically ordered by last_name followed by first_name.

IV.8 Exercise 13: Are you good at maths?

4		Exercise 13	
	/	Data selection	
Turn-in	directory: $ex13/$		
Files to	turn in: ex13.sql		
Allowed	d functions : Everyth	ning is allowed	/
Notes:	n/a		/

Display in a column named 'average' the average number (rounded up to the nearest unit) of seats in each cinema.

IV.9 Exercise 14: You, you will read again...

	Exercise 14	
•	Data selection	
Turn-in directory : ex14/		
Files to turn in: ex14.sq	1	
Allowed functions : Every	thing is allowed	
Notes : n/a		

For each floor, display the floor_number in a 'floor' column and nb_seats by floor in a 'seats' column. Ordered by floor with the highest number of seats to the floor with the least number of seats.

IV.10 Exercise 15: What's your phone number?

4	Exercise 15
	Data selection
Turn-in	n directory: $ex15/$
Files to	o turn in: ex15.sql
Allowed	d functions: Everything is allowed
Notes:	: n/a

Display all the distributors' phone_number starting with '05' by removing the number 0 before the 5 and by reverting the numbers, in a column named 'rebmunenohp' (ex: 0542842169 -> 961248245).

IV.11 Exercise 16: Is it Christmas time?

1	Exercise 16	
·	Data selection	
Turn-in	directory: ex16/	
Files to	turn in: ex16.sql	
Allowed	functions: Everything is allowed	
Notes:	n/a	*

Display the total number of movies watched between 10/30/2006 and 07/27/2007 in a column named 'movies' counting also the number of movies watched on Christmas Eve (December 24th every year).

IV.12 Exercise 17: Maths - THE COME BACK

	Exercise 17
	Data selection
Turn-in	n directory: $ex17/$
Files to	turn in: ex17.sql
Allowed	d functions: Everything is allowed
Notes:	n/a

Display the number of offered suscribtion in a column named 'nb_susc', as well as the average subscription price, rounded to the unit (below) in a column named 'av_susc'. There must be a third column amed 'ft' displaying the sum of modulo 42 subscribtion lengths.

IV.13 Exercise 18: There are some limits!

	Exercise 18	
·	Data selection	
Turn-in d	irectory: ex18/	
Files to to	urn in: ex18.sql	
Allowed f	unctions: Everything is allowed	
Notes: n	/a	¥

Display the distributors who have the following id_distrib 42, 62, 63, 64, 65, 66, 67, 68, 69, 71, 88, 89 and 90 as well as distibutors with 'y' or 'Y' twice in their name. The final list will be a sample of 5 results starting at the third result.

IV.14 Exercise 19: Back to the future

	Exercise 19	
	Data selection	
Turn-ir	in directory: $ex19/$	
Files to	to turn in: ex19.sql	
Allowed	ed functions: Everything is allowed	
Notes:	: n/a	

Display in an 'uptime' column the number of absolute days separating the oldest viewing of a movie with the most recent.

IV.15 Exercise 20: The total

Exercise 20	
Data selection	
Turn-in directory : $ex20/$	
Files to turn in: ex20.sql	
Allowed functions: Everything is allowed	
Notes: n/a	<u> </u>

Display all the movies with an id_genre between 4 and 8 included. The request will display the id_genre, the genre's name, as well as the distributor's id_distrib, the distributor's name as well as the film's title. You'll therefore need the following columns 'id_genre', 'name_genre', 'id_distrib', 'name_distrib' et 'title_film'. The request must display the id_genre, the distributor's id_distrib, and the title even if you can't find a genre's name or a distributor's name.

IV.16 Exercise 21: MD5? Not FT5!

A. C.		Exercise 21	
	/	Data selection	
Turn-in	directory: $ex21/$		/
Files to	turn in: ex21.sql		/
Allowed	Allowed functions: Everything is allowed		
Notes:	n/a		/

In a column named 'ft5' display the phone_number's MD5 of the distributor with id 84. Before encripting it you'll add 42 at the end of it and change any 7 into a 9.