



# 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 ap- take 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 cannot leave any 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 discussions 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 !!!

# Chapter III


## Manipulate my database

### III.1 Exercise 00 : db\_bocal

	Exercise 00
Database creation	
Turn-in directory : <i>ex00/</i>	
Files to turn in : <b>ex00.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
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 : <i>ex01/</i>	
Files to turn in : <b>ex01.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
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:

- 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.


### III.3 Exercise 02 : Mass data

	Exercise 02
Fill your table	
Turn-in directory : <i>ex02/</i>	
Files to turn in : <b>ex02.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	

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 : <i>ex03/</i>	
Files to turn in : <b>ex03.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	

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

	Exercise 04
Data update	
Turn-in directory : <i>ex04/</i>	
Files to turn in : <b>ex04.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	

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 `creation_date`, but only for the users that have an `id` bigger than 5.

## III.6 Exercise 05 : Little bit of cleaning

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


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 : <i>ex06/</i>	
Files to turn in : <i>ex06.sql</i>	
Allowed functions : 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!

	Exercise 07
Data selection	
Turn-in directory : <i>ex07/</i>	
Files to turn in : <i>ex07.sql</i>	
Allowed functions : Everything 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...

	Exercise 08
Data selection	
Turn-in directory : <i>ex08/</i>	
Files to turn in : <b>ex08.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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 : <i>ex09/</i>	
Files to turn in : <b>ex09.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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 : <i>ex10/</i>	
Files to turn in : <b>ex10.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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

	Exercise 11
Data selection	
Turn-in directory : <i>ex11/</i>	
Files to turn in : <b>ex11.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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?

	Exercise 12
Data selection	
Turn-in directory : <i>ex12/</i>	
Files to turn in : <b>ex12.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
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?

	Exercise 13
Data selection	
Turn-in directory : <i>ex13/</i>	
Files to turn in : <b>ex13.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
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 : <i>ex14/</i>	
Files to turn in : <b>ex14.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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?

	Exercise 15
Data selection	
Turn-in directory : <i>ex15/</i>	
Files to turn in : <b>ex15.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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?

	Exercise 16
Data selection	
Turn-in directory : <i>ex16/</i>	
Files to turn in : <b>ex16.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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 directory : <i>ex17/</i>	
Files to turn in : <b>ex17.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


Display the number of offered **suscription** 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 named 'ft' displaying the sum of modulo 42 **suscription** lengths.

## IV.13 Exercise 18 : There are some limits!

	Exercise 18
Data selection	
Turn-in directory : <i>ex18/</i>	
Files to turn in : <b>ex18.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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 distributors 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-in directory : <i>ex19/</i>	
Files to turn in : <b>ex19.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : <b>n/a</b>	


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 : <i>ex20/</i>	
Files to turn in : <b>ex20.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : n/a	

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!

	Exercise 21
Data selection	
Turn-in directory : <i>ex21/</i>	
Files to turn in : <b>ex21.sql</b>	
Allowed functions : <b>Everything is allowed</b>	
Notes : n/a	

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