



# PHP Piscine

Day 05

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*Summary:*

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

# Contents

<b>1</b>	<b>Foreword</b>	<b>2</b>
<b>2</b>	<b>General Instructions</b>	<b>4</b>
<b>3</b>	<b>Manipulate my database</b>	<b>5</b>
3.1	Exercise 00 : db_bocal . . . . .	5
3.2	Exercise 01 : ft_table . . . . .	5
3.3	Exercise 02 : Mass data . . . . .	6
3.4	Exercise 03 : Copy! . . . . .	6
3.5	Exercise 04 : Updates pending, please restart . . . . .	7
3.6	Exercise 05 : Little bit of cleaning . . . . .	7
<b>4</b>	<b>Data selection</b>	<b>8</b>
4.1	Exercise 06 : Where is vinc' ? . . . . .	8
4.2	Exercise 07 : 42 is everywhere! . . . . .	8
4.3	Exercise 08 : The good old days... . . . .	9
4.4	Exercise 09 : Short films . . . . .	9
4.5	Exercise 10 : Aren't we good here? . . . . .	10
4.6	Exercise 11 : Money is essential . . . . .	10
4.7	Exercise 12 : Why simplify things when they can be complicated? . . . . .	11
4.8	Exercise 13 : Are you good at maths? . . . . .	11
4.9	Exercise 14 : You, you will read again... . . . .	12
4.10	Exercise 15 : What's your phone number? . . . . .	12
4.11	Exercise 16 : Is it Christmas time? . . . . .	13
4.12	Exercise 17 : Maths - THE COME BACK . . . . .	13
4.13	Exercise 18 : There are some limits! . . . . .	14
4.14	Exercise 19 : Back to the future . . . . .	14
4.15	Exercise 20 : The total . . . . .	15
4.16	Exercise 21 : MD5 ? Not FT5! . . . . .	15

# Chapter 1

## Foreword

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.

Here are my shaft blows uncle first or at the heros. Nevertheless caused me improve lingering squadrons the shooting it. Earth opens have it have what its et. However my that frontier only. That frightening grow assassins sound. Levee my each lacquer hollow when. Faces xv epouser take raised it.

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The drums or take branches new regiment. Peiner hast removed cried titles say the tu legion. Ifs age its cover on folds before tracer. Treteaux gold or youth possess crispent noticing. Purposes of the RIT day five the fear slaughters. Possess thou poverty in the Color feerique tons. Non-ras cast circle Palace pic fever.

Released have te kolbacks stores of the. Noise meters know yes walkers  
was art credit. Life for his wall leave during was work. You fanatics  
insurance if it sadly the cherissait. Groups becomes ca ah engage tile  
me. Its commander ah the descend instrument.

# Chapter 2

## 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 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 !!!

# Chapter 3

## Manipulate my database

### 3.1 Exercise 00 : db\_bocal

Turn-in directory : ex00/

Files to turn in: ex00.sql

Allowed functions: Everything is allowed

---

The goal 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 query you performed.

### 3.2 Exercise 01 : ft\_table

Turn-in directory : ex01/

Files to turn in: ex01.sql

Allowed functions: Everything is allowed

---

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 columns in this exact 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`.

The fields must not be `NULL`.

### 3.3 Exercise 02 : Mass data

Turn-in directory : `ex02/`

Files to turn in: `ex02.sql`

Allowed functions: Everything is allowed

---

Now that your table has been created, let's fill it.

You will add the five users:

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

### 3.4 Exercise 03 : Copy!

Turn-in directory : `ex03/`

Files to turn in: `ex03.sql`

Allowed functions: Everything is allowed

---

As you may have noticed, it is tedious to manually insert data. The next step is to fill your **ft\_table** using the second table's data.

Select the users with an 'a' in their **last\_name** from the table **user\_card**. The selected users must be copied only if the length of **last\_name** 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 will insert these users in the 'other' group.

### 3.5 Exercise 04 : Updates pending, please restart

Turn-in directory : ex04/

Files to turn in: ex04.sql

Allowed functions: Everything is allowed

---

In the previous exercise, you used the user's `birthdate` as `creation_date` in your table. To restore some meaning to all this, you will 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.

### 3.6 Exercise 05 : Little bit of cleaning

Turn-in directory : ex05/

Files to turn in: ex05.sql

Allowed functions: Everything is allowed

---

After successfully modifying the copied users, you must now remove the entries you manually inserted earlier. Delete the 5 first users of your table.



# Chapter 4

## Data selection

### 4.1 Exercise 06 : Where is vinc' ?

Turn-in directory : ex06/

Files to turn in: ex06.sql

Allowed functions: Everything is allowed

---

Display the **title** and **summary** of all movies [**film**] containing "Vincent" in their **summary**. The research must be case-insensitive. Order the results by ascending **id\_film**.

### 4.2 Exercise 07 : 42 is everywhere!

Turn-in directory : ex07/

Files to turn in: ex07.sql

Allowed functions: Everything is allowed

---

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

### 4.3 Exercise 08 : The good old days...

Turn-in directory : ex08/

Files to turn in: ex08.sql

Allowed functions: Everything is allowed

---

Display the `last_name`, `first_name` and `birthdate` [only the date, not the time - in a column named `birthdate`] from the table `user_card` of everyone born in 1989, ordered alphabetically by `last_name`.

### 4.4 Exercise 09 : Short films

Turn-in directory : ex09/

Files to turn in: ex09.sql

Allowed functions: Everything is allowed

---

Display the number of "short films" [with a duration smaller or equal to 42] in a column named `nb_short-films`.

## 4.5 Exercise 10 : Aren't we good here?

Turn-in directory : ex10/

Files to turn in: ex10.sql

Allowed functions: Everything is allowed

---

Display the title in a column named **Title**, the summary in a column named **Summary** and the **prod\_year** in a column of the same name of every "erotic" movies ordered by descending production year.

## 4.6 Exercise 11 : Money is essential

Turn-in directory : ex11/

Files to turn in: ex11.sql

Allowed functions: Everything is allowed

---

Display the **last\_name** in uppercase in a **NAME** column, the **first\_name** and the **price** of the **members** having a subscription higher than 42 euros. The results must be ordered by ascending **last\_name** then by ascending **first\_name**.

## 4.7 Exercise 12 : Why simplify things when they can be complicated?

Turn-in directory : `ex12/`

Files to turn in: `ex12.sql`

Allowed functions: Everything is allowed

---

Display the `last_name` and `first_name` of every user with a double-barrelled `last_name` and/or `first_name`, alphabetically ordered by `last_name` then by `first_name`.

## 4.8 Exercise 13 : Are you good at maths?

Turn-in directory : `ex13/`

Files to turn in: `ex13.sql`

Allowed functions: Everything is allowed

---

Display in a column named **average** the average number [rounded up to the nearest unit] of all the seats in all **cinemas**.

## 4.9 Exercise 14 : You, you will read again...

Turn-in directory : ex14/

Files to turn in: ex14.sql

Allowed functions: Everything is allowed

---

For each floor of a cinema, display the `floor_number` in a column named `floor` and the total of `nb_seats` by floor in a column named `'seats'`. The result must be ordered by floor with the highest number of seats to the floor with the least number of seats.

## 4.10 Exercise 15 : What's your phone number?

Turn-in directory : ex15/

Files to turn in: ex15.sql

Allowed functions: Everything is allowed

---

Display all the distributors' `phone_number` starting with "05" in a column named `rebmunenohp` with the following constraints: remove the number 0 before the 5 and revert the numbers [ex : 0542842169 -> 961248245].

## 4.11 Exercise 16 : Is it Christmas time?

Turn-in directory : `ex16/`

Files to turn in: `ex16.sql`

Allowed functions: Everything is allowed

---

Display the total number of **movies** [film] watched between *2006-10-30* and *2007-07-27* in a column named **movies** and add to that result the the number of **movies** watched on Christmas Eve [December 24th every year].

## 4.12 Exercise 17 : Maths - THE COME BACK

Turn-in directory : `ex17/`

Files to turn in: `ex17.sql`

Allowed functions: Everything is allowed

---

Display the number of offered **subscription** in a column named **nb\_susc**, as well as the average **subscription price**, rounded [down] to the nearest unit in a column named **av\_susc**. There must be a third column named **ft** displaying the sum of the subscription durations, modulo 42.

### 4.13 Exercise 18 : There are some limits!

Turn-in directory : `ex18/`

Files to turn in: `ex18.sql`

Allowed functions: Everything is allowed

---

Display the **name** of 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 from the third result.

### 4.14 Exercise 19 : Back to the future

Turn-in directory : `ex19/`

Files to turn in: `ex19.sql`

Allowed functions: Everything is allowed

---

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

## 4.15 Exercise 20 : The total

Turn-in directory : `ex20/`

Files to turn in: `ex20.sql`

Allowed functions: Everything is allowed

---

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 and the film's title. You will need the following columns in that specific order: `id_genre`, `name_genre`, `id_distrib`, `name_distrib` and `title_film`. The request must display the `id_genre`, the `id_distrib`, and the `title` columns even if you can't find a genre's `name` or a distributor's `name`.

## 4.16 Exercise 21 : MD5 ? Not FT5!

Turn-in directory : `ex21/`

Files to turn in: `ex21.sql`

Allowed functions: Everything is allowed

---

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