

PA5 Group Plan

Here is a basic outline of the practical and all the work that needs to get done. All the things marked in orange I am slightly unsure about. All the things marked in red I am very unsure about.

Task 1:

This task is kind of like typing up the description of the database like they gave us for PA 1 and 3 about UP bank.

Choose sport and research the sport. Make sure to include all the necessary information that the spec requires. Helps to be familiar with the sport so whoever does this task should probably choose the sport. What would also help is if two people are familiar with the sport then the other person could review the finished product or work together on it.

Task 2:

Design the (E)ER-Diagram. This will be derived from Task 1. Based on how this diagram turns out we can go back to the previous task and adjust as we see fit. We should also try to follow the provided SportsDB schema from the spec as that DB can be considered the standard for how ours should look. Any decisions made should be included in the PDF.

Task 3:

Pretty self-explanatory. Just take task 2's diagram and convert to relational diagram like lecture 14 did. The rubric gives marks for all steps of the mapping process however our (E)ER-Diagram may not require certain steps. Not sure if we'd lose marks for that but if we give a brief explanation of why we don't need to make that step in our PDF then we should be fine.

Task 4:

As far as I understand it, we must take the designed database from task 2 and 3 and create a DB schema using something like MySQL Workbench. So more or less a repeat of PA 3. However, it is stated that our schema must make use of the SportsDB schema. I'm assuming this means we must add our relations and foreign keys to that schema. I'm not entirely sure though. I also don't know where our DB will be hosted whether it is localhost using Xampp or on phpMyAdmin on Wheatley.

Task 5:

After our schema is created, we must create a web application to query our DB. We also need the functionality of users logging in to our web application. This login functionality is confusing to me. Are we supposed to create another DB to remember users' login details? The query design will be simple although a lot of work. Designing the UI will also take a lot of work considering we must use HTML, CSS, and JavaScript.

Task 6:

We must populate our DB with data. Not sure if we're allowed to make up data or if we must pull from real data. If we are allowed to make up data then I would recommend just inputting player 1, player 2 etc. If not, then it will be more difficult as we will have to research team/player names and locations as well as tournaments to populate our tables.

Task 7:

Use lecture 28 and 29 to optimize 3 of our query execution plans. Then implement the change and report on the gain/loss after the change. Also explain why you believe there was gain or loss.

Task 8:

This is basically miscellaneous tasks combined into one which should be completed after completing everything else.

Usage of git: We must make sure all of us are using the GitHub repository throughout every task.

Data validation: Will be implemented in task 5 for every query.

Usage of a package manager: I think this is where composer comes into play?

Ease of understanding: Make sure that the pdf is structured well and there are no spelling/grammar/punctuation errors. Same goes for all GitHub commit messages and the README file. And make sure all code has comments and is properly indented.

Task 9:

On 1 June (next week Wednesday) we must all attend a Demo to show our solution.

If you don't show up, you don't get a mark.

In the PDF you must also write down what you contributed to the project.