

Git is a distributed revision control and source code management system that can be used by multiple developers working on the same project. Here is a simplified relational database which allows you to manage different file modifications on the same Git repository:

- Developer (id, name, surname)
- Project (id, name, creationDate, *owner*)
- File (id, name, extension, creationDate, *idProject*)
- Commit (*idFile*, *idDeveloper*, *ctimestamp*, modification, comment)

Primary keys are underlined, foreign keys in italics.

- *owner* references to Developer.id indicating the creator of the project
- *idProject* references to Project.id
- *idFile* references to File.id
- *idDeveloper* references to Developer.id

The timestamp shows the commitment time of a modification of a developer on a given file.

1. Give the timestamp of commits whose comment contains the word "Debugging". The search should be case-insensitive.
2. Who is the creator of the "Software Engineering" project? Give his full name.
3. For each project, give the name of the executable file whose creation date is the latest. We also want to display the name of the project in the result.
4. How many times the developer John Doe has validated modifications to the file report.tex on January 1st 2014?
5. Sort in decreasing order the developers according to the number of projects in which they have participated. We consider that a developer has participated in a project if he has made at least one commit on one file of the project. We want to show in the result the developers who have made no commit too.
6. Which person has made the most modifications on 18th November 2013 on the Mindstorm project?
7. Which developers have participated in all projects? Give their name and surname.
8. Give the name of the projects created in 2012 in which John Smith has worked as Java developer.