Research Document

Name: Tony Jiang

Semester: 6

Project Music trivia game

Contents

[1 Introduction 3](#_Toc162252185)

[2 Research questions 3](#_Toc162252186)

[3 Sub-questions result 3](#_Toc162252187)

[3.1 Which databases should be considered for a comparison test? 3](#_Toc162252188)

[3.2 Which of the chosen databases is easy to implement on the web? 4](#_Toc162252189)

[3.3 What is the storage size of the two chosen databases for the free version? 4](#_Toc162252190)

[3.4 Among the chosen databases, which one offers greater scalability for free? 4](#_Toc162252191)

[3.5 How does the performance of the chosen databases compare? 4](#_Toc162252192)

[4 Conclusion to the main question 4](#_Toc162252193)

# Introduction

# Research questions

**Main question:**

**What kind of storage solution fits for storing and using large files in a music trivia web-based game?**

**Sub-questions:**

*The strategy and methodology for the FHICT can be found at this link:* [*https://ictresearchmethods.nl/*](https://ictresearchmethods.nl/) *Methods and* [*https://cmdmethods.nl/*](https://cmdmethods.nl/)*.*

1. **Which databases should be considered for a comparison test?**

* **Strategy: Library**
* **Methodology: Literature Study, Community Research**

1. **Which of the chosen databases is easy to implement on the web?**

* **Strategy: Field, Library**
* **Methodology: Document Analysis, Community Research**

1. **What** **is the storage size of the two chosen databases for the free version?**

* **Strategy: Field, Workshop**
* **Methodology: Document Analysis, Prototyping**

1. **Among the chosen databases, which one offers greater scalability for free?**

* **Strategy: Library, Workshop, Showroom**
* **Methodology: Literature Study, Prototyping, Gap Analysis, Benchmark Test**

1. **How does the performance of the chosen databases compare?**

* **Strategy: Library Workshop Showroom**
* **Methodology: Literature Study, Prototyping, Gap Analysis, Benchmark Test**

# Sub-questions result

## Which databases should be considered for a comparison test?

I need to decide which databases to compare for this project due to time constraints. The ideal criteria for selecting databases to compare include:

* The database must be popular.
* The database must have a free version available.
* The databases must be of different types from each other.
* The database must have a cloud-based option.

Additionally, I’ll limit the maximum number of comparisons to three.

### Types of databases

I’m going to write down all the databases type that I found and summarize them and decide which types of databases to do a comparison test based on this project.

* **Centralized database**
* **Cloud database**
* **Commercial database**
* **Distributed database**
* **End-user database**
* **Graph database**
* **NoSQL database**
* **Object-oriented database**
* **Open-source database**
* **Operational database**
* **Personal database**
* **Relational database**

## Which of the chosen databases is easy to implement on the web?

## What is the storage size of the two chosen databases for the free version?

## Among the chosen databases, which one offers greater scalability for free?

## How does the performance of the chosen databases compare?

# Conclusion to the main question