



ft_db

What's a Database

Gaetan Juvin gaetan@42.us.org
42 Staff pedago@42.us.org

Summary: You're a database MVP!

Contents

I	Foreword	2
II	Introduction	3
III	Goals	4
IV	General instructions	5
V	Mandatory part	6
VI	Bonus part	8
VII	Turn-in and peer-evaluation	9

Chapter I

Foreword

Data, as cited from wikipedia:

Data was found by Starfleet in 2338 as a sole survivor on Omicron Theta in the rubble of a colony left after an attack from the Crystalline Entity. An artificial intelligence and synthetic life form designed, built by as much self-likeness to, Doctor Noonien Soong (likewise portrayed by Spiner), Data is a self-aware, sapient, sentient, and anatomically fully functional android who serves as the second officer and chief operations officer aboard the Federation starships USS Enterprise-D and USS Enterprise-E. His positronic brain allows him impressive computational capabilities. Data experienced ongoing difficulties during the early years of his life with understanding various aspects of human behavior and was unable to feel emotion or understand certain human idiosyncrasies, inspiring him to strive for his own humanity. This goal eventually led to the addition of an "emotion chip", also created by Soong, to Data's positronic net. Although Data's endeavor to increase his humanity and desire for human emotional experience is a significant plot point (and source of humor) throughout the series, he consistently shows a nuanced sense of wisdom, sensitivity, and curiosity, garnering immense respect from his peers and colleagues.

Base, as cited from wikipedia

Base refers to a group of voters who almost always support a single party's candidates for elected office. Base voters are very unlikely to vote for the candidate of an opposing party, regardless of the specific views each candidate holds. In the United States, this is typically because high-level candidates must hold the same stances on key issues as a party's base in order to gain the party's nomination and thus be guaranteed ballot access. In the case of legislative elections, base voters often prefer to support their party's candidate against an otherwise appealing opponent in order to strengthen their party's chances of gaining a simple majority, typically the gateway to overarching power, in a legislature.

Chapter II

Introduction

- Only this page will serve as reference; do not trust rumors.
- Watch out!

This document could potentially change up to an hour before submission.

- This project is due in three weeks.
- This project is about databases.
- This project is about communication.
- How will your team meet the requirements?
- What are the requirements?
- All questions need to be asked on the slack channel provided.
- Everyone must be in the slack channel to participate.

Chapter III

Goals

Learn about databases by programming a new database and better understand the place for databases in a world of data.
Create a database meeting the developing requirements.
Ask questions and achieve clarification of requirements.

Make sure you know what you need to be working on.
Make sure you know what your group needs to be working on.
Make sure the other groups know what they need to be working on.
Make sure the current project requirements are being met.
Make sure that further requirements are feasible.

Rigorously check the `pdf` and `slack` for updates.
Keeping your project current with current requirements.

Chapter IV

General instructions

1. Research.
2. Program a database.
3. ????
4. POINTS!!!

Chapter V

Mandatory part

Be sure you are in the `slack` channel, it's mandatory!
Your login name must match your intra to get credit.

April 9th 2016 08:43 hmichals asks:

`Does we need to program this in C?`

ftdb replied:

`Now you do!`

April 9th 2016 08:44 dduong asks:

`Does it need to have a Makefile`

ftdb replied:

`Now it does!`

April 19th 2017 09:00 iwordes asks:

`Can we use the standard library?`

ftdb replied:

`Yes, you can use the ISO C library!`

April 19th 2017 09:XX everyone asks:

What are the specifications?

ftdb replied:

We need to figure them out as a team.

For now: Create an minimum viable product of a database in C.

April 19th 2017 09:00 scollet asks:

illegal functions?

ftdb replied:

Let's not focus on what we shouldn't use for now.

Use your best judgement for the use of 3rd party libraries.

Make sure you can fully explain the functions called in your ft_db

Resources:

[How Databases have failed the web.](#)

[NoSQL](#)

[NewSQL](#)

[Redis](#)

[In-memory database](#)

[Unofficial git mirror of SQLite](#)

[Data is at the heart of most significant programs,
but few understand how database systems actually work.](#)

Suggested lectures:

[CS186](#)

If you have any suggested resources for the group,
Then please, bring them to the meeting or direct message ftdb.



ft_db meeting in slack on April Friday 21th 2017 9:15 AM PST

Chapter VI

Bonus part

April 19th 2017 09:00 scollet asks:

Will there be extra credit?

ftdb replied:

Yes, extra credit is always a thing!

Are you really sure of all the requirements?

A strong set of requirements is better than four times as much bonus!

Why don't you ask more questions on slack, feel free to direct message ftdb



Be sure to have questions ready for the meeting, ask them to your peers to make sure they are the right ones.

Chapter VII

Turn-in and peer-evaluation

Turn your work in using your GiT repository, as usual.
Only work present on your repository will be graded in defense.



This subject can change up to an hour before the project is due!



THIS IS NOT THE FINAL PDF v.02