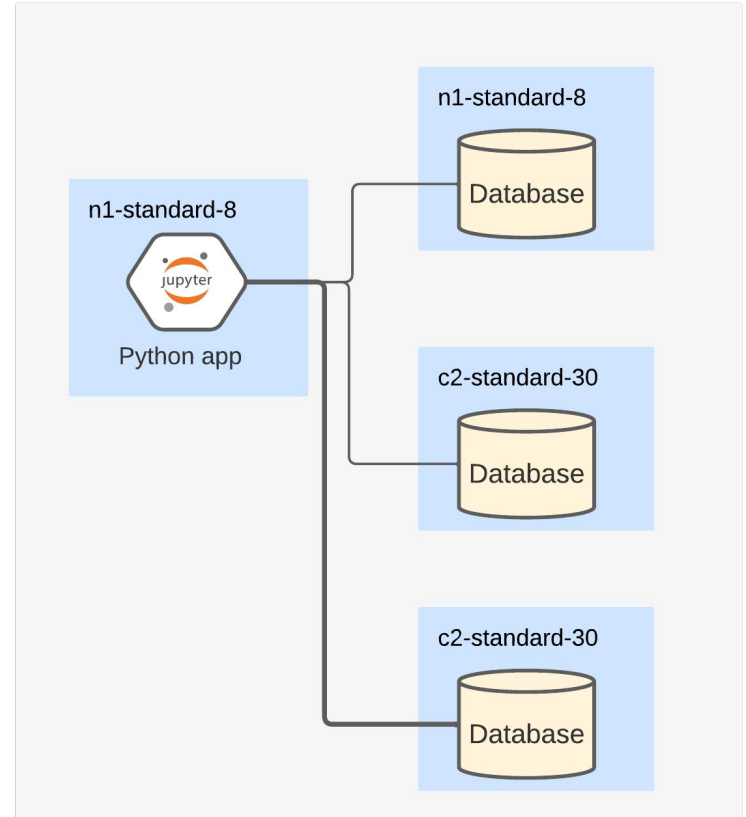# Class 10 Final Project

Elements of Databases

Apr 29, 2022

Surveys

- Midterm 2 instapoll
- Extra credit & Course Instructor Surveys

Final Project: The What

- Test the performance of an RDBMS
- Choose between MySQL and Postgres
- Use Compute Engine instead of Cloud SQL
- Focus on a high write workload
- Python client writes records into a table
- Measure latency of writing 8m records
- Make some SW and HW optimizations

Final Project: The Why

- Studying the performance of a database system is an important aspect of being a Data Engineer. When evaluating a system, you should always test how it performs for the average case and load spikes.

- A more realistic study would use a read + write workload and measure latency, throughput, and cost.

Final Project: The How

- Two milestones: [Milestone 1](#) and Milestone 2
- Work collaboratively with your partner on both milestones
- You are expected to work independently on this project
- Use your group's [assigned](#) breakout room
- If you get stuck, request help in the main room's chat
- TAs will join your breakout room
- Go to the main room if you need to speak to me
- We will regroup at ~6:15 to share lessons learned