Final Project: The What

• Measure the write performance of a database system:
  • MySQL or Postgres
  • Using Compute Engine instances (Virtual Machines)
  • Load ~8 million records into a database table from Python

• Try to improve the write performance through various experiments:
  • Batched inserts (small, medium, large batch sizes)
  • System variable tuning
  • Adding hardware resources (CPUs, RAM, Network)
Final Project: The Why

• Many online applications and services are sensitive to the performance of their databases. Can you think of a few examples?

• You will likely be asked to evaluate the selection of a database system in the near future. You may even be responsible for making the decision on which database product to use.

• Gain some hands-on experience doing end-to-end performance testing and tuning through various experiments.
Final Project: The How

• Two project milestones: Milestone 1 and Milestone 2
• Work collaboratively with your project partner on both milestones
• Work in your assigned Zoom breakout room
• Use sign-up sheet to request help from instructors
• Go back to Main Room for the occasional instapolls and questions/issues that come up