**Tips for ideas**:  Log into the UI library's subscription of O'Reilly Books (formerly called "SafariOnline").  There are hundreds of books there on almost every kind of database system that exists.  You can peruse those for ideas, and most certainly for helpful information once you've decided your topic/technology to explore.  Also, you can log into the UI subscription of Linked-In Learning (formerly Lynda.com) and there are many intro tutorials there that could give you ideas.

* The project may be solo or a group of up to four students.
* A student or team must post their project proposal for approval in the forum.
* The projects must utilize at least ONE of these things:
  + a database engine type you've not used yet this semester.
  + or a cloud service you've not used yet this semester (e.g. AWS, Google Cloud, Heroku, DigitalOcean, etc.)
  + or a distributed *sharded* cluster (either cloud or on your own hardware). Sharding is different than read replicas.
  + or a significant set of features we've not used yet but in a previously-used DBMS (e.g. Postgres, MongoDB, or Neo4j)
  + or a simple custom web application interface to demonstrate it can query your database securely.
* The proposal should describe the technology(ies) you plan to use, the data set(s) to be used, and a general description of the desired outcome.

Database systems:

1. MySQL
2. SQLite/python

Datasets:

1. Admission data
2. Data.illinois.gov
3. NOAA

Cloud service:

1. OneDrive