# X370 (Spring 2018) Term Project Guidelines:

* A database is required: a project needs to use MySQL as a database backend.
* Real-world data is required: either collect from web, including social media, other databases or generate through human-activity. No toy-data is allowed.
* Large data is required: a project needs to use a significant number of tuples. Minimum number of tuples must be 10,000. In exceptional situations, computer-generated data will be permissible.
* A project needs to use database design in ER, normalization process and indexing capabilities of the database backend.
* A project needs to provide a novel way to query the data, which was not previously possible in its native/original place (of the data set) (as an example consider CIA Factbook; if you prefer to build a database on the countries you need to provide a novel way to query country data, which does not exist in the original Factbook web site).
* A JavaScript or Java based Web Application Development frameworks will be ok. These include frameworks such as Node.js and Play 2. You can also implement a standalone (non-web) interface if you are not familiar with web programming.
* A Java based back-end is required (e.g., JDBC or Hibernate).

**A proposal is due March 23rd, 11:59 pm – team leaders submit through ELC:**

* Min 2, max 3 pages document.
* Pdf or MS Word.
* 11 pts font size.
* Single space.
* Expected sections: a title, a short intro, original contributions (what is new?), broader impact (how is it useful to society?), proposed system architecture, technical details, related work, planned time-line, team members and responsibilities, conclusion & references.