Project

Project

- Teams of up to 3
- Register your teams by Feb. 6, 2022
- A form has been shared
- Requirements: there needs to be a front-end, accessible by browser. The backend is PostgreSQL 14.
 - Use Flask (basic) for frontend
 - Full SQL queries are expected
- Evaluation
 - Report submission (outline will be given)
 - Demo (10 min. video)
 - − Q/A session

Ideas (1/2)

- Amazon -- buy and sell books second hand
- Ebay -- auctioning items
- Twitter -- create profile, tweeting, retweeting, following
- Facebook
- Course management system (managing student lists, assignments, updating grades, etc.)
- Library management system
- Research papers database (DBLP)
- Movie Database (IMDB) (ratings, etc. could be included)

Ideas for projects (2/2)

- Sports DB cricket, football, etc. Indian
- Government's open data at data.gov.in
- Linked Open Data at https://lod-cloud.net
- COVID datasets

Requirements

- At least 4-5 tables
- At least 1000's of tuples
 - Larger the dataset, more is it appreciated
 - You will have to find real data. No synthetic data.
 - Not just a "searchable" dataset. Application should involve updates.
- Milestone 1:
 - Submit an outline of your project, get it approved
 - Due: Feb. 6, 2022
 - Deadline to finalize: Feb. 9, 2022
- Project due: Mar. 1, 2022 (11.55pm)

Do's and Don'ts

- DO USE as many features of the DB as possible
 - Anything is allowed, as long as PostgreSQL 13 supports it (no extensions)
 - Demonstrate your knowledge of views, triggers, indexes, etc.
 - These have to be meaningful if it doesn't make sense to use these, then you don't get marks!
- DO NOT use datasets that are "difficult"
 - Do not scrape, use ready-made data
 - Do not use noisy data, ensure the data is as clean as possible!

Delty

- Evaluation of datalog queins

Theast fixed point evaluation

Negation & reversion

-> Virgueness of LFP

R, P, Q

Indexes, Views, Triggies, Constaints