

Topics for Database Project

- **Library database:** A student and faculty can borrow books/media/devices/etc. Different limits for number of items that a student and faculty can borrow. Also, the number of days will be different in case of students and teachers. Each item will have an ID. Consider the library may have multiple copies of the same item. Details of fines due when item are not returned on time should also be considered. Need the capability to put request/hold items.
- **Online Music Library:** Musicians as users would post their songs along with all the meta data and the songs would show up in a library available to all listeners. Listeners as users could listen to tracks (streaming) with the UI play/pause skip etc. And add songs to playlists. Listeners and musicians must register in the system to get user accounts. The idea is to create "Coog Music", music made by UH students and alumni.
- **Theme Park Management system:** To manage information about a specific theme park and collect data to provide reports on number of customers and average number per month; average number of rides broken down / needing maintenance; most frequently ridden rides per month; number of rainouts per month (and which month); spikes in average number of customers on a weekly and monthly basis, etc.
- **Courier/Post office database:** Gather data concerning the packages going in and out of the post office, where they are going, and who is sending them. Additionally, the team would have to build a database of customers in relation to what packages they are shipping out. The database should have the functionality to provide 'tracking' history for packages both for customers and employees.

- **Point of Sale System:** Store database that keeps track of inventory, customers and transactions. Customer can check out items and that will update inventory. If an item hits a certain threshold, then the system must prompt to reorder that item. This system will have a Virtual Register with ability to input any item, add/update/delete items to any given list, and the ability to count individual items.
- **Project Management System:** Facilitate a company to manage projects across departments, tracking the hours of effort by each member in projects, project status, and reporting on effort and cost. Consider as many aspects of project management as you can facilitate in this database.
- **Medical Clinic Database:** A health provider company has multiple offices in different states. Many doctors work for the company, and each doctor takes care of multiple patients. Some doctors just work in one office, and others work in different offices on different days. The database keeps information about each doctor. Each patient can be assigned to one or more doctors. Specific patient information is also kept in the database. Customers can schedule and cancel appointments either over the phone or using a web portal. Some restrictions apply — for example, to see a specialist, the patient needs an approval from his/her primary physician.