Database Systems

CSCE 413/813 Project 2 Fall 2003

---

1. Design an PReSTO constraint database with at least 6 parametric rectangles relations. At least one of the parametric rectangles relation should describe a moving object. Below are some suggested project topics to help you start thinking. Your own ideas are welcome.

   (a) A human face with all the elements (eye, lips, hair, etc.) represented as separate relations.

   (b) A city map showing various areas of parks, roads, houses, shopping malls, etc. Also show how these changed over time, i.e., when they were built or expanded in space.

   (c) A parking lot. Show the areas of the parking lot and how cars enter and leave the parking lot. Each car could be a separate relation.

   (d) Passenger airplanes. Show the cities, states, and flight paths. Each plane could be a separate relation.

2. Find at least 3 queries (may be iconic queries). Explain what they mean and write them down in the style of the examples in the user's manual.

3. Run your queries on the PReSTO system. Save the output relations.

4. Turn in the database and the queries in hard copy as well as using the hand in program.

5. Be prepared to demonstrate your work if asked by the TA or the instructor.