

ITS Concepts

ITS 130 • Spring 2011

-Database Project

This is an individual or team project. You may work on your own or in teams of up to four (4) people. Please note all team members on all materials.

Goal

Design, develop, and test a student registration database in two systems: first, a relational database like SQL Server, Postgres, Oracle, or DB2 (but not MySQL because it's not a database, it's a sewer), and second in the non-relational data store MongoDB.

Data

- Students: Phineas, Ferb, Candace, Perry
- Courses: Intro to Spying, Planet Building, What to do today, Evil in Theory and Practice
- Enrollments
 - Perry, Intro to Spying
 - Phineas, What to do today
 - Ferb, What to do today
 - Ferb, Planet Building

The Database

- Create three (3) tables with referential integrity between and among them.
- Add twelve(12) rows of data (as noted above)
- Remove the class "Evil in Theory and Practice"
- Change "Candace" to "Can't Dance"
- Write five (5) queries
 - all students
 - all courses
 - roster for class "What to do today"
 - schedule for Can't Dance
 - schedule for Ferb

Deliverables - Write up the following:

- Relational Database (SQL Server, Postgres, Oracle, or DB2) scripts, tests, and output
- Non-relational (MongoDB) scripts, tests, and output
- Essay: Compare and contrast the two systems. Which do you prefer, and why? What system seems best for what circumstances?

Submitting

- Print (and staple) your document to hand in on the day it is due. Also, please e-mail Alan your document as well. Remember to note the names of all team members on all material.