In this assignment we have a mythical biomedical company named HealthWyzer that has just come into existence. The database was created from the following in Rational Rose, you can find the .ddl and .dml files at.

http://www.cs.utexas.edu/~parnell/courses/2008/fall/HealthWyzer.ddl
http://www.cs.utexas.edu/~parnell/courses/2008/fall/HealthWyzer.dml

1. Setup for the assignment
   a. Install MySQL. There are plenty of tutorials on how to do this for every operating system.
   b. Change the default engine to InnoDB, you can do this in the install or by changing the my.cnf file and adding the line “default-storage_engine=innodb”
   c. Use the following ddl(data definition language) file to create a database. You can use the following commands once you have started mysql.
      i. create database HealthWyzer;
      ii. use HealthWyzer;
      iii. source C:/location/to/where/you/put/HealthWyzer.ddl
   d. Populate the database with the following dml(data manipulation language)
      i. source C:/location/to/where/you/put/HealthWyzer.dml
2. 329E & 395T: Answer the following questions, for each question turn in the SQL statement/statements that you used to answer the question, unless stated differently. You will need to know the following basic commands SELECT, INSERT, DELETE, and JOIN.
   a. Who are the current employees of HealthWyzer? What projects do they currently have?
   b. Show the first 2 TimeCard entries.
   c. HealthWyzer just hired a new employee Ingrid Bergman, “ib1”, insert her into the database.
   d. Ingrid started in week 4 and worked 35 hours and was “learning the ropes” on the NuUPill project. Insert that information.
   e. What has Crake been doing week to week, this should be limited to only Crake and no one else.
   f. Ignatius has just been fired and the company would like to erase him from memory, remove him from the database. Also, describe why you can’t simply type “delete from T_Employee where EmployeeID="ir1";’
   g. The company would like to print a report that contains everything which projects employees have been working on week to week but don’t know the which projects T_Project_ID refers to. Do a join between the Project table and TimeCard table.

3. CS 395T students only. Commands, ALTER TABLE, CREATE TABLE.
   a. HealthWyzer has decided to sell products. Each product will have a brand name and a price. Create a table to describe this.
   b. Management has decided that the Products table needs a dateCreated field, add it.
   c. Delete the T_TimeCard table constraint that links the TimeCard to the Employee and insert one that upon delete will “cascade”. Hint( use “show create table” or look in the .ddl for the syntax on how to insert the constraint)
   d. Delete Althena Oryx, describe why this is different than the previous employee delete.