a. Who are the current employees of HealthWyzer? What projects do they currently have?
   i. select * from T_Employee; or select firstName,lastName from T_Employee;
   ii. select * from T_Project;

b. Show the first 2 TimeCard entries.
   i. select * from T_TimeCard limit 2; (technically database entries should be considered as unordered sets, so more correct is to order the set into some list)
   ii. select * from T_TimeCard order by week limit 2;

c. HealthWyzer just hired a new employee Ingrid Bergman, “ib1”, insert her into the database.
   i. insert into T_Employee (firstName,lastName,employeeID) VALUES ("Ingrid","Bergman","ib1");

d. Ingrid started in week 4 and worked 35 hours and was “learning the ropes” on the NuUPill project. Insert that information.
   i. insert into T_TimeCard (week, hoursWorked, contribution, T_Project_ID, employeeID) VALUES (4, 35, "learning the ropes", 3, "ib1");

e. What has Crake been doing week to week, this should be limited to only Crake and no one else.
   i. select * from T_TimeCard where employeeID="gc1";

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";’
   i. delete from T_TimeCard where EmployeeID="ir1";
   ii. delete from T_Employee where EmployeeID="ir1";
   iii. There is a foreign key constraint on T_TimeCard which says ON DELETE NO ACTION, so the constraint was being broken and no action was performed.

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 which the projects T_Project_ID refers to. Do a join between the Project table and TimeCard table.
   i. select * from T_Project P natural join T_TimeCard T;

2. 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.
      i. create table T_Product (brandName varchar(255) not null, price int(11) not null);

   b. Management has decided that the Products table needs a dateCreated field, add it.
      i. alter table T_Product add column (dateCreated DATETIME);

   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)
i. alter table T_TimeCard drop foreign key FK_T_TimeCard7;
ii. ALTER TABLE T_TimeCard ADD CONSTRAINT FK_T_TimeCard7 FOREIGN KEY (employeeID) REFERENCES T_Employee (employeeID) ON DELETE CASCADE ON UPDATE NO ACTION;

d. Delete Althena Oryx, describe why this is different than the previous employee delete.
i. delete from T_Employee where employeeID="ao1";
ii. This is different because with the changed table constraint the deletion “cascade” to the T_TimeCard table as well, removing all entries of “ao1” in that table.