# Assignment #1

**(due on Monday, September 17, 2012)**

Given the following database tables:

### Database name: COMPANY

**Table name: EMPLOYEE Table name: BENEFIT**

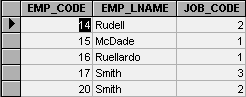
CH2-P1B

Table name: JOB

**CH2-P1C**

Table name: PLAN

CH2-P1D

Answer the following questions:

1. For each table, where possible, identify **(*10 points*)**:
   1. Several superkeys.
   2. Several candidate keys.
   3. The primary key.
   4. The foreign key(s).
   5. Several secondary (or alternate) keys.
2. Do the tables exhibit entity integrity? Answer Yes or No, then explain your answer **(*2 points*)**.
3. Do the tables exhibit referential integrity? Answer Yes, No or NA (not applicable) if the table does not have a foreign key, then explain your answer **(*2 points*)**.
4. What will be the result of a JOIN operator between tables EMPLOYEE and JOB (EMPLOYEE JOIN JOB) ? You can express your answer in a tuple format – for example, the first row of EMPLOYEE table can be expressed as (14, Rudell, 2) and the EMPLOYEE table can be represented as a list of such tuples **(*4 points*)**.
5. What would yield the LEFT OUTER JOIN between EMPLOYEE and JOB **(*1 point*)** ?
6. What would yield the RIGHT OUTER JOIN between EMPLOYEE and JOB **(*1 point*)** ?