Project # 1 Instruction

This is a teamwork. Each team has two team members. Both team members must work together on the entire project. Team members can't divide the works between themselves.

For this project, each team needs go through the entire process of Designing, Implementing, Testing and submission of a database for an organization that the team has selected for this class. The process is as follows:

1. Select an organization that the student likes to work on.
2. Collect information about the activities and functionality of the organization by interview and/or other ways. Type it, analyze it and make corrections as needed and then include it in your submission under the title "Interview".
3. Design an ER model for this organization according to the information you collected in step 2.
4. Convert your ER model to a set of schemas.
5. Your database must have 5-10 schemas.
6. Convert your set of schemas to BCNF. Show the work and proof that the final result is indeed in BCNF. It is not sufficient just to say that your tables are in BCNF.
7. Use a relational DBMS to create a DB for your selected organization. Create a table for each schema. Include about 5-8 attribute for each schema.
8. Enter 10-15 tuples in each of your tables.
9. Print every table in a nice tabular form.
10. Run a set of 5 or more queries on your DB.
11. For each query you must include the three parts:
    A. **Indicate in English what information you are trying to retrieve**
    B. Write a query using SQL to retrieve the information for part A.
    C. The result of the query to show your query works correctly.
12. At the end, include a few pages of report to indicate what you learned from this project and the problems that you had (if any), hard copy of everything in a zip file with a cover page. The cover page should include:

    Student's names
    Course title
    Semester
    Project 1
    Database title
    DBMS used for this project

12. **The content of your file must follow the order of the instruction.**

Note: The student is responsible for getting / buying the software DBMS which selects to use.