Our overall goal is to design the data infrastructure for the creation of a comprehensive and Intelligent Project Planning system (iPlanner). This is a rather complex problem, so to be able to wrap our head around it, let us reduce the scope and restate the primary goal as follows:

Design a system that offers an “academic” organization the ability to effectively plan its projects. An academic unit (such as a department, college/school, and campus) has many projects that it works on. Some of these are short (e.g., a couple of days, weeks, months), some are longs (months, semesters, years), some are ad-hoc and happen once, some reoccur with regular frequency (e.g., every semester, every year, every 5 or 6 years, etc.) As an administrator, one may need to know the answer to the following questions:

- **Q1**) what are the set of known projects that occur on a yearly basis?
- **Q2**) how long does it take to complete each project?
- **Q3**) which projects have fallen behind? Why?
- **Q4**) what resources are needed for each project? (Personnel, equipment, space, skills, etc.)
- **Q5**) what is the desired outcome of each project (what are the expected artifacts)
- **Q6**) who is the recipient of the project outcomes (artifacts)
- **Q7**) who oversees the project?
- **Q8**) what is the predicted cost of the project?
- **Q9**) what are the constituent parts of the project?
- **etc.**

Think about the above questions. What does it take to answer these questions? Also, note that we are not trying to write an application to solve this problem or answer these questions. We are in a database course, and our goal is to identify what “data” items should to be available so that a “future application” can answer the above questions? In other words, we are going to build the data model.

Note that the above is a simplified version of the problem. The real problem has many other dimensions, so you need to study and analyze the problem and then schedule an interview with at least one department chair or secretary, dean, or assistant dean, vice chancellor or assistant vice chancellor who regularly performs project planning for their unit. For this assignment, you are encouraged to work with a team member. Each team member must upload her/his own copy of the assignment separately into Canvas and must identify the other team member.

What to hand in:

1) After brainstorming the problem as a team (or individually if you choose to work alone!), and interviewing one or more administrators who have project planning responsibility and experience, identify at least 3 additional questions that should be answered by the system.

2) Once the three questions are identified, identify at least 5 data points that need to be collected in order to potentially answer each questions. (identify 5 data points per Question)

3) In addition, if you choose to work as a team, you need to provide a self and peer evaluation for this assignment. The self and peer evaluation should include (the times and dates you met to brainstorm the issue, who developed the interview questions, who made the arrangements for the interview, who asked the questions, who recorded the answers, who asked follow up questions, who developed and sent the follow up thank you note).

4) Regardless of the number of members in your team (1 or 2), your report should include the name of the interviewee, the questions asked, the summary of the answers, and finally the result of your brainstorming and reflections after the interview.
| **Team Member Name** | 1)  
2) |
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<td><strong>Result of your initial analysis and brainstorming</strong></td>
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| **Interview Subject(s)** | • Name  
• Academic Unit Name  
• When was, the interview requested? (Remember to make your request early, at least 3 days before. Don’t wait till the last minute and expect the department secretaries, chair, dean, or vice chancellors, to grant you an interview)  
• Date/Time/Duration of interview |
| **Interview Questions (including planned follow-up questions)** | 1)  
2)  
3)  
4)  
5) |
| **Summary of Answers to Interview Questions** | Final set of questions and summary of the subject’s answers |
| **Results of your final analysis after your interview and reflections** | No more than a page |
| **3 Additional Goals Identified** | 1)  
2)  
3) |
| **5 Additional Data points identified** | 1)  
2)  
3)  
4)  
5) |
| **Supplemental information, external research, etc.** | Books, articles, URLs, etc. |
| **Self and Peer Evaluation** | Who did what when?  
What was the Times/Dates you met to brainstorm the issue?  
Who developed the interview questions?  
Who made the arrangements for the interview?  
Who asked the questions, who recorded the answers, who asked follow up questions?  
Who developed and sent the follow up thank you note?  

Assuming the entire task took 100 units of work, assess your own as well as your team member’s contribution to the team. Consider both quality and quantity of effort put toward the assignment:  
• Your contribution? (For example: 45 units)  
• Team member’s contribution? (For example: 55 units) |

Note that this part of the document is only shared with me. Do not send it to your team member. This is your method of communicating with me and let me know how the teamwork went.