

# GROUP PROJECT 1

Develop insightful problems that can be used as a specification so that it may be given to any developer to create queries to resolve to provide resolution to the problem.

Also, it teaches the group how to investigate a new database system as if the business just acquired a new business. The IT department will be required to learn this new system for maintenance and enhancement purposes.

Learning how to work as a team and the concept that the team is more important than any individual. Exposure to working in a delegation model.

This assignment will leverage your understanding of Chapters 2, 3 and 6 as the basis for creating the queries

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## Non-technical Project Objective

It is important to learn how work as a team (collaborating). Support each other to meet the mutually agreed upon deliverables. Learn how to work in virtual meetings using Microsoft Team, Zoom, GoToMeeting, etc.

Industry is looking for team players. Individuals that are reliable and meet their deadlines.

## Project Tracking techniques documentation using Excel and Word

1. Provide meeting notes (word document) with an agenda and attendance
2. Develop a to-do list for the team members using the To-do list. Each project in the worksheet will be the name of the group member and their responsibilities for the project and due dates.
3. Track the deliverables by original due date and revise due by with notes explaining the delay.



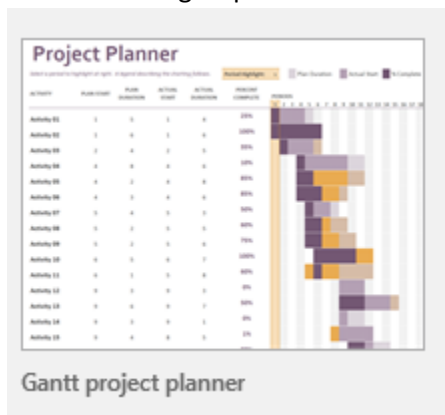
The image shows a screenshot of a spreadsheet titled "To-do list". The spreadsheet has a header row with "To do completed by" and "Responsible". Below this is a section for "Project 1" with a table of tasks. The tasks are listed in a column on the left, and the corresponding due dates and responsible persons are in the columns to the right. The tasks are: Planning, Preparation, Task 1, Task 2, Task 3, Task 4, Task 5, Task 6, Task 7, Task 8, Task 9, Task 10, Task 11, Task 12, Task 13, Task 14, Task 15, Task 16, Task 17, Task 18, Task 19, Task 20, Task 21, Task 22, Task 23, Task 24, Task 25, Task 26, Task 27, Task 28, Task 29, Task 30, Task 31, Task 32, Task 33, Task 34, Task 35, Task 36, Task 37, Task 38, Task 39, Task 40, Task 41, Task 42, Task 43, Task 44, Task 45, Task 46, Task 47, Task 48, Task 49, Task 50, Task 51, Task 52, Task 53, Task 54, Task 55, Task 56, Task 57, Task 58, Task 59, Task 60, Task 61, Task 62, Task 63, Task 64, Task 65, Task 66, Task 67, Task 68, Task 69, Task 70, Task 71, Task 72, Task 73, Task 74, Task 75, Task 76, Task 77, Task 78, Task 79, Task 80, Task 81, Task 82, Task 83, Task 84, Task 85, Task 86, Task 87, Task 88, Task 89, Task 90, Task 91, Task 92, Task 93, Task 94, Task 95, Task 96, Task 97, Task 98, Task 99, Task 100.

To-do list for projects

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	A	B	C	D	E	F	G	H
1	To-do list							
2								
3	To be completed by:					Name		
4	Deadline:					Date		
5								
6	Project 1							
7	% done	Phase	Start By	Original Due By	Revised Due By	Number Of Days	Revision Notes	
8	100%	Planning						
9	75%	Preparation						
10	50%	Task a						
11	25%	Task b						
12	0%	Task c						
13	0%	Task d						
14	0%	Paperwork						
15	0%	Hand-off						
16	0%	Follow-up						

4. Use Gantt Project planner to track the summarized progress of the project. It will be managed by the project manager and shared with the group team<sup>1</sup>. The activity will be the individual tasks for each group member. Devise your own convention to include tracking delays.



<sup>1</sup> See attached "Group Number – Gantt project 1 planner.xlsx"

## JDBC Class library design and documentation with a voice annotated MP4

1. PowerPoint document should be named Class Time - Group Number – Group JDBC Class library.pptx
  - a. Demonstrate the effectiveness of meetings with an agenda and attendance
  - b. Show the to-do list
  - c. Show the project plan
2. Explain how your design will be reusable for all of the remaining projects for the semester
3. Show the documentation and a work through of the group's effort in design and documentation.

Each member of the group will develop 20 problem statements (propositions) and develop the solution.

At a minimum, there should be one query from each of the 5 different databases below:

1. `use AdventureWorks2017;`
2. `use AdventureWorksDW2017;`
3. `use Northwinds2020TSQV6;`
4. `use WideWorldImporters;`
5. `use WideWorldImporters;`

Problems should range from simple (5) to medium (8) to complex (7)

**All queries must use the ANSI 92 standard for queries with the type safe "on".**

1. All queries will have relational output as well as a formatted JSON component
  - a. Simple query should have up to 2 tables joined. The tables can be physical tables or views.
  - b. Medium query should have from 2 to 3 tables joined and use built-in SQL functions and group by summarization. It should include combinations of subqueries or CTE or virtual tables.
  - c. Complex query should have from 3 or more tables joined, custom scalar function and use built-in SQL functions and group by summarization. It should include combinations of subqueries or CTE or virtual tables.

## Group presentation

Identify the project leader for the group

Who is the designated project leader for delegating work?

## Standards

1. Make sure that there is a consistent look and feel for the entire project
  - a. Learn how to use the Heading 1, Heading 2, Heading 3, etc.
  - b. Project Template make sure you generate the word table of contents based upon the headings that were created.
  - c. Have a peer review of each other's work.

Create PowerPoint Presentation which is voice annotated

The presentation should:

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1. Identify the work of each of the individual members.
2. PowerPoint document should be named Class Time - Group Number – Group Project 1.pptx
  - a. Demonstrate the effectiveness of meetings with an agenda and attendance
  - b. Show the to-do list
  - c. Show the project plan
  - d. Show each query noted by the Student Name and their Question Number
    - i. Each query must be formatted using PoorSQL.com or Redgate SQL Prompt format.
    - ii. Have the proposition in the slide with the query.
    - iii. Leverage as much as you can from the template of your query submission.
  - e. Summarize the team effort in the manner as you did by individual.
3. Each team member will review their problems by simple, medium and complex
  - a. Prioritize their top 3 problems (simple, medium and complex); why they choose these problems for their top rating.
  - b. Prioritize their 3 worst problems (simple, medium and complex); why they choose these problems for their lowest rating. How can the problems can be fixed to make it the best?
4. Review the team's problems by simple, medium and complex
  - a. Prioritize the Top problems from all of the members and why the team made the decision for the rating. Identify designed proposition and who wrought the query.
  - b. Prioritize the worst problems from all of the members and why the team made the decision for the rating. Identify designed proposition and who wrought the query. How can the problem can be fixed to make it better by the team?
5. **If any of the members of the group do not participate, please notify me during the project period.**
6. Please keep the Class Time - Group Number – Group Project 1.mp4 from a range of 20 to 30 minutes (note: Each team member at a minimum need must speak for 4 to 5 minutes explaining their work)
7. Please keep the Class Time - Group Number – JDBC Project 1.mp4 from a range of 8 to 12 minutes (note: Each team member must speak for 2 to 4 minutes explaining their work)

### The submission should include the following:

4. **Create a VHDx file as a submission format with a directory structure. Zip files or RAR files are not preferred but will be accepted with a big penalty.**
5. Create a folder hierarchy for the members work and the group's collaborative of all of the documents.
6. Submit all of the project tracking techniques documentation
7. PowerPoint document should be named Class Time - Group Number – Group JDBC Class library.pptx with a voice annotated MP4
  - a. Demonstrate the effectiveness of meetings with an agenda and attendance
  - b. Show the to-do list
  - c. Show the project plan
8. Explain how your design will be reusable for all of the remaining projects for the semester
9. Show the documentation and a walk through of the group's effort in design and documentation.
10. The individual group members problems should be submitted with the file name Group -Member Name using the template Microsoft word document and create a PDF of the template as part of the submission.  
Note: this document should only contain the following:
  - a. three top queries from simple, medium and complex execution
  - b. three worst queries from simple, medium and complex execution
  - c. three worst queries from simple, medium and complex execution that were correct
11. Create a SQL file Group Number -Your Member Names with the problem statement and all 20 queries with use database Name and the individual query.

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12. Include all of the source, JAR files and executable in a JDBC folder.
13. PowerPoint document should be named Class Time - Group Number – Group Project 1pptx
  - a. Demonstrate the effectiveness of meetings with an agenda and attendance
  - b. Show the to-do list
  - c. Show the project plan
14. Create a voice annotated PowerPoint document should be named Class Time - Group Number – Group Project 1.mp4 with a minimum length of 20 to 30 minutes.
15. Create a voice annotation of the JDBC execution of the group's three top queries from simple, medium and complex execution. Nine queries in all, it should be named Class Time - Group Number – JDBC Project 1.mp4 with a minimum length of 8 to 12 minutes. Preferred presentation using a Swing application instead of console application.
  - a. three top queries from simple, medium and complex execution
  - b. three worst queries from simple, medium and complex execution
  - c. three worst queries from simple, medium and complex execution that were corrected by the team to function as the three top queries.