**Lab3**   
**Note Use CTE with the following tasks**

1. Identifying the Top Instructors by Average Evaluation Score:
   * Run these queries first:

*alter table Ins\_Course add evaluation\_int int*

*update Ins\_Course set evaluation\_int =100 where evaluation='Good'*

*update Ins\_Course set evaluation\_int =200 where evaluation='VGood'*

*update Ins\_Course set evaluation\_int =400 where evaluation='Distinct'*

* + Use the "Ins\_Course" table to calculate the average evaluation score for each instructor.
  + Rank the instructors based on their average evaluation scores and identify the top instructors with the highest scores.

1. Identifying the Top Topics by the Number of Courses:
   * Use the "Topic" and "Course" tables to count the number of courses available for each topic.
   * Rank the topics based on the count of courses and identify the most popular topics with the highest number of courses.
2. Finding Students with the Highest Overall Grades:
   * Use the "Stud\_Course" table to calculate the total grades for each student across all courses.
   * Rank the students based on their total grades and identify the students with the highest overall grades.

Use CompanySD

1. Employee Ranking within Departments: Challenge: You want to rank employees within each department based on their salaries
2. Employee Ranking by Project Contributions: Challenge: You want to rank employees based on the number of hours they worked on each project.
3. Project Ranking by Employee Contributions: Challenge: You want to rank projects based on the total number of hours worked on each project.
4. Department Ranking by Project Count: Challenge: You want to rank departments based on the number of projects they have.
5. Employee Age Ranking: Challenge: You want to rank employees based on their ages.