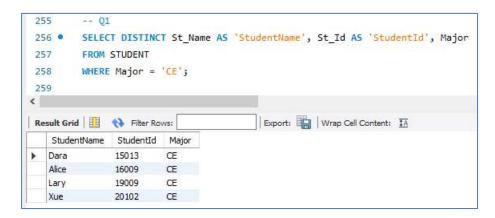
CIND110 DATA ORGANIZATION FOR DATA ANALYSTS

ASSIGNMENT 2 DESIGN AND MAINTAIN A RELATIONAL DATABASE

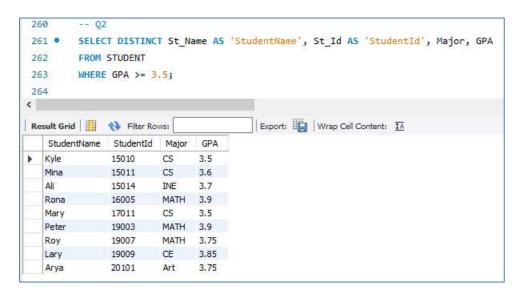
SECTION: DK0
SUMBITTED BY: ANN SAM
STUDENT NUMBER: 501160843

Write an SQL statement(s) to find the following:

1. List the names, ids and major of students who are majored in Computer Engineering (CE).



2. List the names, Ids, major, and GPA of students who have GPA \geq 3.5.



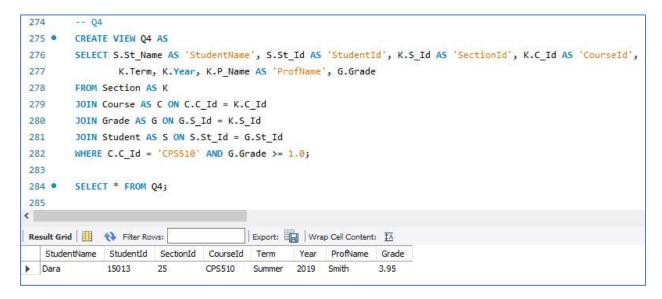
3. List the grades of student 'David' with this format:

<StudentName CourseName CourseID SectionID Term Year ProfName Grade>

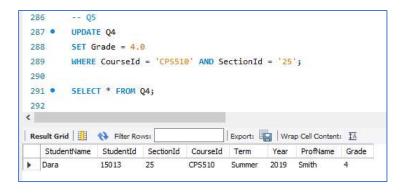
```
265
        -- 03
        SELECT DISTINCT S.St_Name AS 'StudentName', C.C_Name AS 'CourseName', K.C_Id AS 'CourseId', K.S_Id AS 'SectionId',
266 ●
                K.Term, K.Year, K.P_Name AS 'ProfName', G.Grade
267
        FROM Section AS K
268
269
        JOIN Course AS C ON C.C_Id = K.C_Id
        JOIN Grade AS G ON G.S Id = K.S Id
271
        JOIN Student AS S ON S.St_Id = G.St_Id
        WHERE S.St_Name = 'David';
272
273
Export: Wrap Cell Content: TA
                                          Term
              CourseName
                        CourseId
                                 SectionId
                                                  Year ProfName
                         CIND850
                                 37
                                         Summer
                                                 2021
                                                       Smith
```

4. List the grade of the students who passed the course ID "CPS510" with this format:

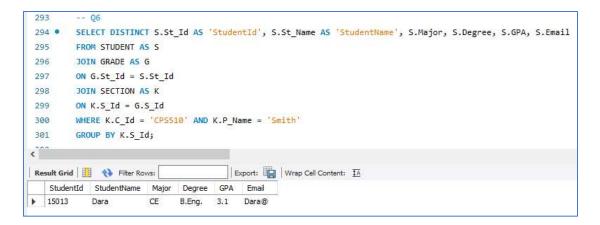
<StudentName StudentID SectionID CourseID Term Year ProfName Grade>



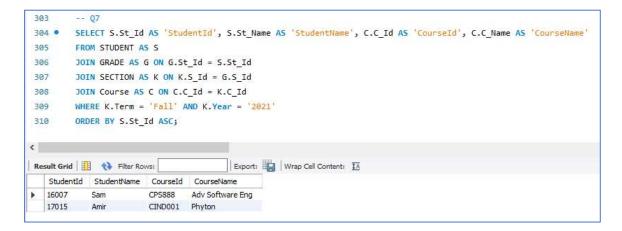
5. Update the grade of all the students who passed the course ID 'CPS510' section '25' to '4' and list the results.



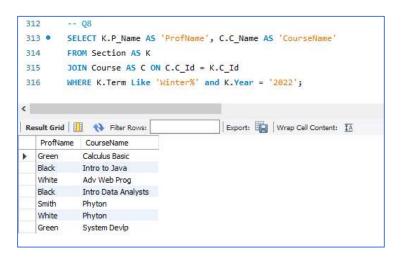
6. List all attributes of students who are enrolled in course ID 'CPS510' with Professor 'Smith', grouped by the course section.



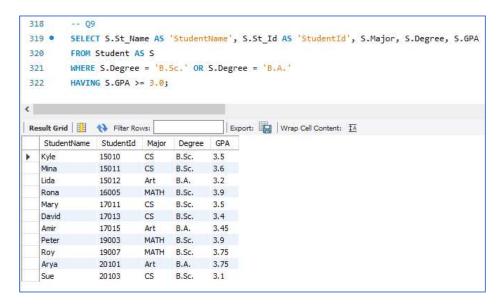
7. List the student ID, student name, course ID and course name for all students enrolled in Fall 2021; sort the output in ascending order by student ID.



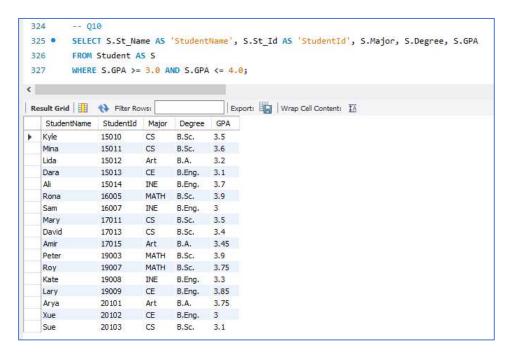
8. List all the professor names who teach a course in winter 2022, along with their course names.



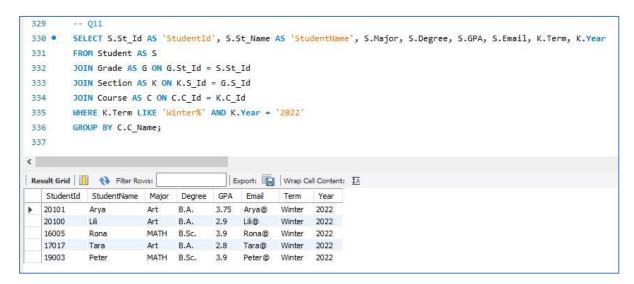
9. List the name, Id, major, degree, and GPA of all students who have a GPA ≥ 3.0 and studying towards degree 'B.Sc.' and 'B.A.'.



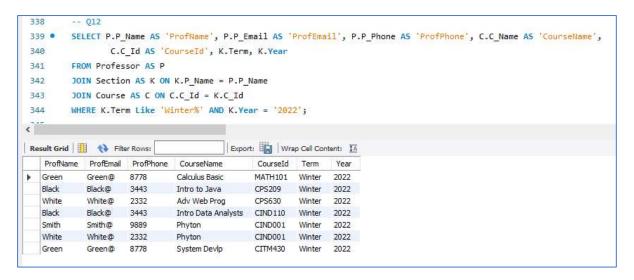
10. List the name, Id, major, degree, and GPA of all students who have GPA between 3.0 and 4.0 inclusively.



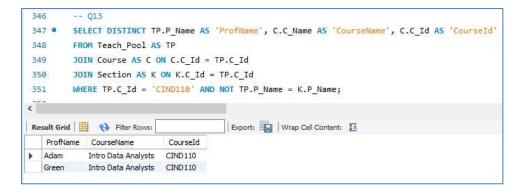
11. List all attributes of students who are enrolled in course currently along with the term and year, grouped by the course name.



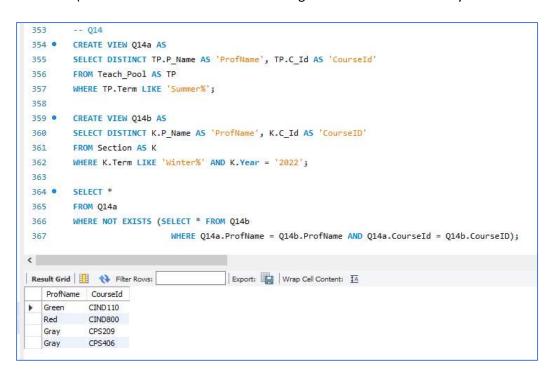
12. List the name, email, and phone of all Professors who tech in the current semester along with the course name, course id, term and year.



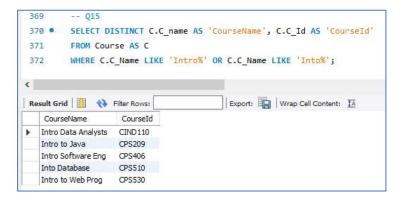
13. List the name of all Professors who can teach 'CIND110' (from the Teach-Pool) along with the course Id, but haven't taught the course (from Section).



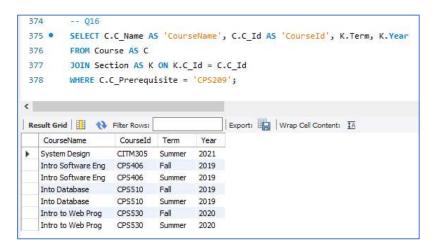
14. List the name of all Professors who are available to teach in summer terms along with the course Id they can teach (from Teach-Pool and are not teaching the same course currently.



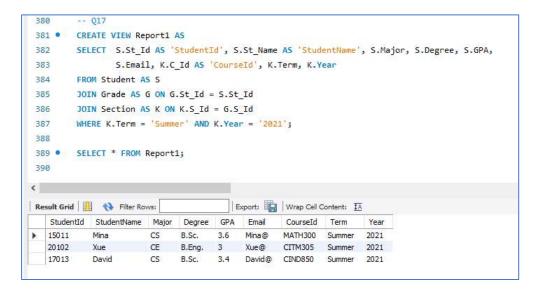
15. List the name and Id of all courses that are introductory courses (their names begin with either 'Intro' or 'Into').



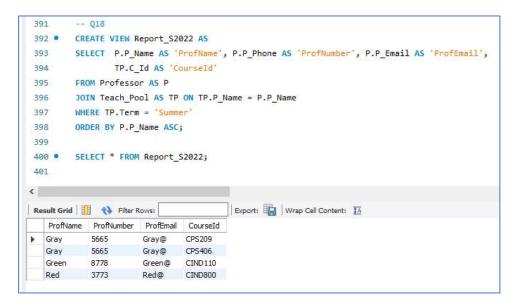
16. List all course names and Ids which have a pre-requisite of "CPS209" along with the term and year they have been provided.



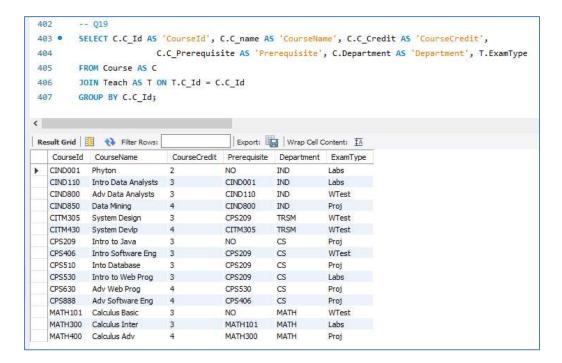
17. Create a View as 'Report1' from all attributes of students who were enrolled in the Summer Term of 2021, along with their course Id, term and year; Display Report1.



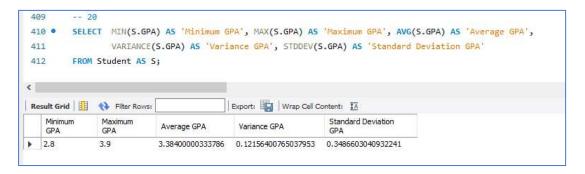
18. Create a view as 'Report_S2022' from all attributes of potential Professors who will be available to teach in Summer 2022 along with their course Ids, sort the output in ascending order based on names; Display Report_S2022.



19. Make a list containing all courses' attributes from 'Course' table and their relevant exam types from 'Teach' table based on the same course Id.



20. Find the Minimum, Maximum, Average, Variance, and Standard Deviation of the GPA of all Students and display them.



EER Diagram for RegistrarDB

