Task # 6

Consider a student database with a table named `Students` containing information about students, including `studentId`, `firstName`, `lastName`, `major`, `yearOfStudy`, `GPA`, and `enrollmentDate`. Design SQL queries to perform the following tasks:

1. Display the full name of all students.

2. Display the first name, last name, and GPA of students with a GPA above 3.5.

3. Display the student ID, first name, and major, sorted by student ID in ascending order and major in descending order.

4. Display the details of students who do not have any major.

5. Display the last name, major, and enrollment year for students with the last names of "Hassan" and "Ali", sorted by enrollment year in ascending order.

6. Display the last name, major, and GPA of students majoring in Computer Science, sorted by last name in ascending order.

7. Display the last name and enrollment date for students enrolled in 2021.

8. Display the information of students who enrolled between 2020 and 2024.

9. Display the average GPA of students in each major.

10. Identify the student with the highest GPA and display their first name, last name, and GPA.

11. List the names of students who have a GPA below 2.0.

Table Detail:

- Table Name: Students
- Columns:
- studentId (Primary Key, int, auto-increment)
- firstName (varchar)
- lastName (varchar)
- major (varchar)
- yearOfStudy (int)
- GPA (decimal)
- enrollmentDate (date)