Laboratory Work #3

Please write SQL queries for following tasks and save as .sql file.

1. Create a database called lab3.
2. Download and run the lab3.sql file using Query Tool (make sure the tables are created correctly).
3. Select the last name of all students.
4. Select the last name of all students, without duplicates.
5. Select all data of students whose last name is "Johnson."
6. Select all data of students whose last name is "Johnson" or "Smith."
7. Select all data of students who are registered in the "CS101" course.
8. Select all data of students who are registered in the "MATH201" or "PHYS301" courses.
9. Select the total number of credits for all courses.
10. Select the number of students registered for each course. Show the course ID and the number of students. (Use the COUNT(*) operator for counting the number of students.)
11. Select the course ID with more than 2 students registered.
12. Select the course name with the second-highest number of credits.
13. Select the first and last names of students registered in the course with the fewest credits.
14. Select the first and last names of all students from Almaty.
15. Select all courses with more than 3 credits, sorted by increasing credits and decreasing course ID.
16. Decrease the number of credits for the course with the fewest credits by 1.
17. Reassign all students from the "MATH201" course to the "CS101" course.
18. Delete from the table all students registered for the "CS101" course.
19. Delete all students from the database.