USER MANUAL

TestSQL

Capstone CSC3003S 2023

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Introduction

This is the User Manual for TestSQL application, a comprehensive guide to efficiently utilizing all the features and functions of our versatile application. Whether you are a dedicated lecturer looking to streamline your SQL assignments, or a diligent student striving for SQL excellence, this user manual is tailored to meet your needs.

This user manual is divided into two sections: one for lecturers and one for students. Lecturers will find detailed instructions on how to create SQL assignments, view assignment grades, auto generate questions, and add new SQL questions to the database. On the other hand, students will discover how to take SQL assignments, practice SQL problems, and review their own grades.

TestSQL has been designed with simplicity and effectiveness in mind, offering intuitive navigation and powerful tools to enhance your SQL learning and teaching experience. Whether you're a seasoned SQL expert or just starting out, this user manual will guide you through every step of harnessing the application's capabilities to achieve your goals.

Before you begin, please ensure that you have the necessary credentials and access to the application. If you encounter any issues or have questions along the way, don't hesitate to consult this manual.

Lecture Functionality

Sign in

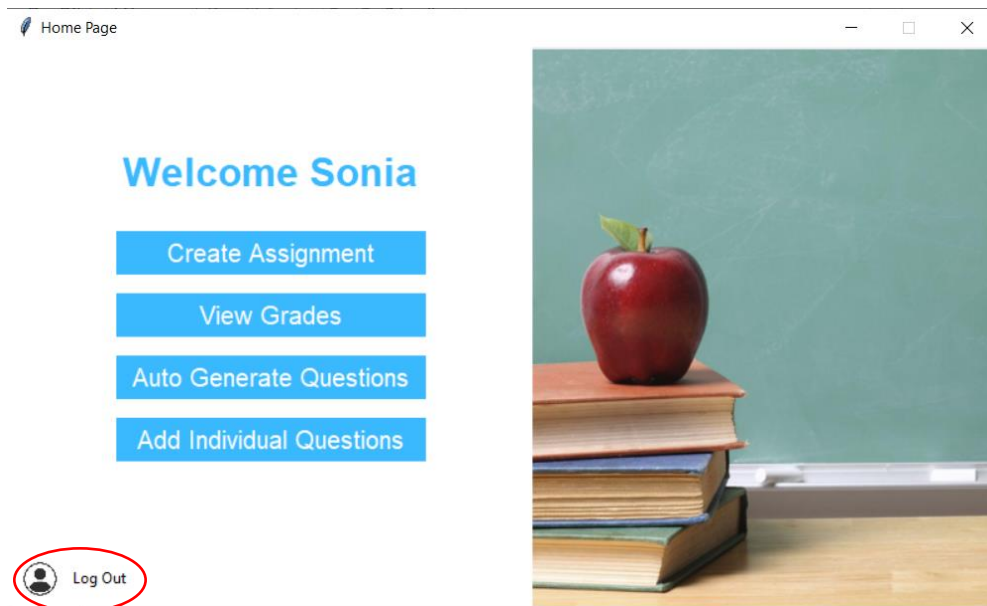1. The application opens on the sign in page.
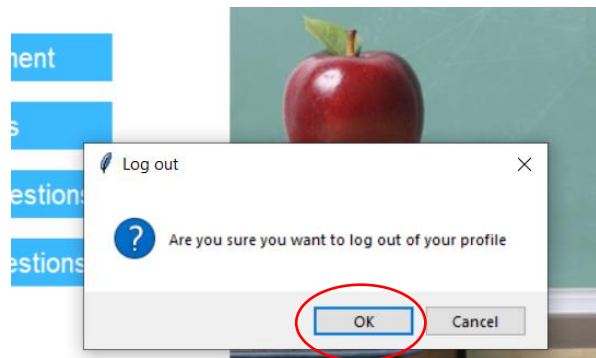

2. Enter your lecturer ID/username into the username field.
3. Enter your password into the password field.
4. Check the Lecturer checkbox
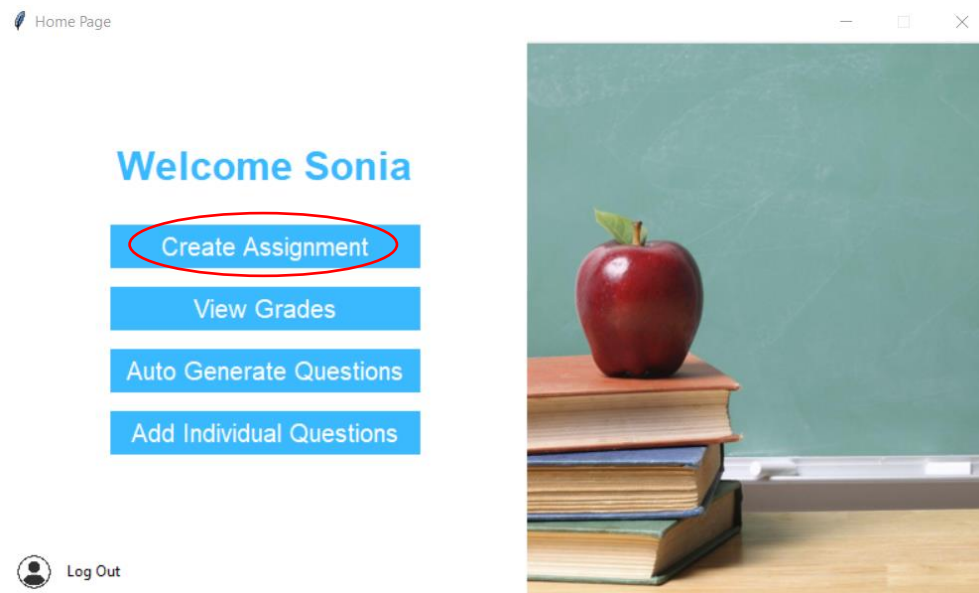5. Click on Sign In button

Logout

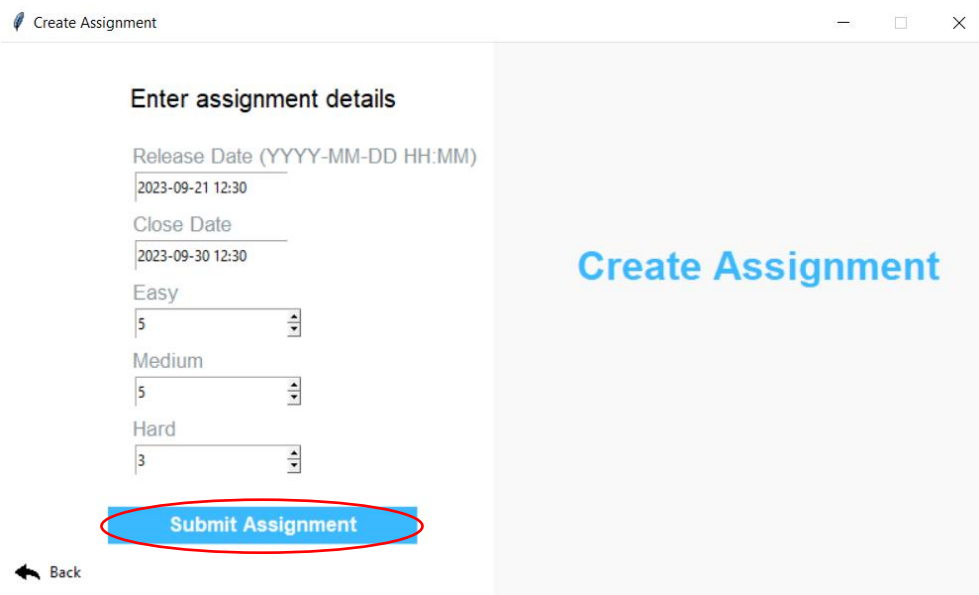1. Click the Logout button on the bottom left of the lecturer home page

2. Select OK on the Log out messagebox prompt
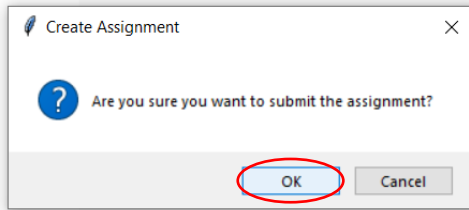
Create Assignment

1. Navigate to Lecturer Home Page
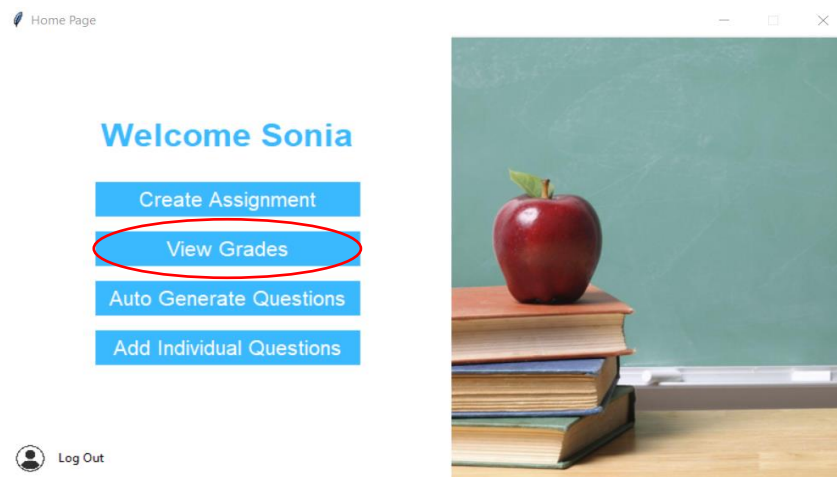

2. Click on Create Assignment button

3. Enter the assignment release date in the release date field in the format (YYYY-MM-DD HH:MM)
4. Enter the assignment close date in the close date field in the format (YYYY-MM-DD HH:MM)
5. Choose the number of easy, medium and hard questions
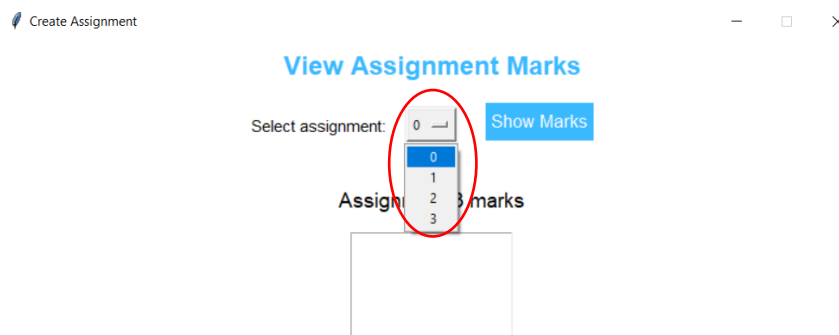6. Click on Submit Assignment button

7. Click OK on the create assignment messagebox prompt

View Grades

1. Navigate to Lecturer Home Page

Welcome Sonia

Create Assignment

View Grades

Auto Generate Questions

Add Individual Questions

Log Out

2. Click on View Grades button

View Assignment Marks

Select assignment: 0 ⌄   Show Marks

0
1
2
3

Assignment 3 marks

3. Select the assignment you want to view the marks for from the drop-down list

4. Click on Show Marks button to view individual student marks and some assignment statistics

Auto Generate SQL Questions

1. Navigate to Lecturer Home Page

2. Click on Auto Generate Questions button

3. Enter the English question, where '!' denotes the column name and '_' denotes the table name
4. Enter the SQL answer to this question, where '!' denotes the column name and '_' denotes the table name
5. Use the spinbox to select the question difficulty
6. Click on Generate button to automatically generate some SQL questions with their answers

7. If any combinations are unwanted:
   - Enter a comma separated list to any of the generated questions in that appropriate field
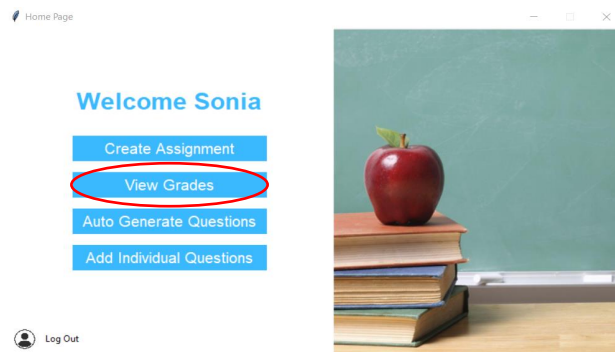   - Click on Delete Questions button

8. Click Create and Exit button to add the generated question to the database permanently

Add Individual Questions

1. Navigate to Lecturer Home Page

2. Click on Add Individual Questions button

3. Enter the English question in the 'Input the question' field.
4. Enter the SQL answer to this question in the 'Input the SQL answer' field
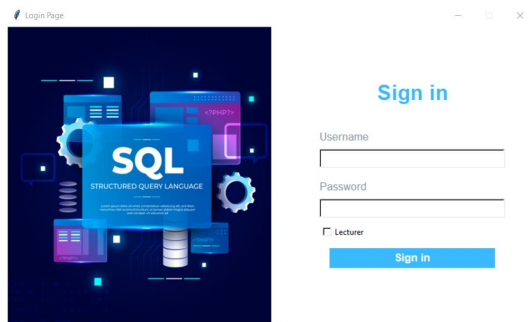5. Use the spinbox to select the question difficulty
6. Click Add combination to temporarily add question to the list of questions to be saved permanently
7. Continue inputting questions (step 3-6) until ready to permanently save them all to the database

8. Click on Save and Exit button to save your created questions to the database
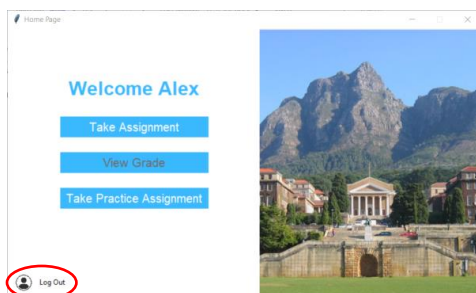
Student Functionality

Sign in

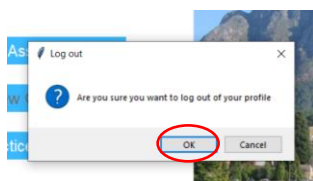6. The application opens on the sign in page.

7. Enter your student ID/username into the username field.
8. Enter your password into the password field.
9. Leave the Lecturer checkbox unchecked
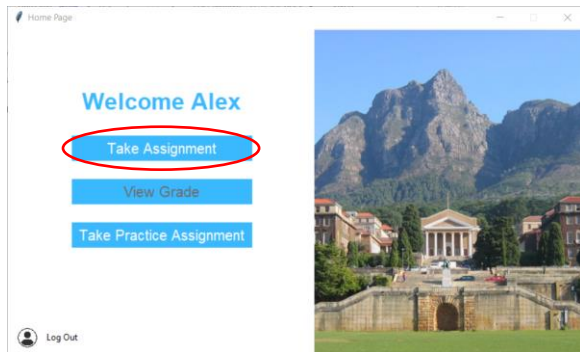10. Click on Sign In button

Logout

3. Click the Logout button on the bottom left of the student home page
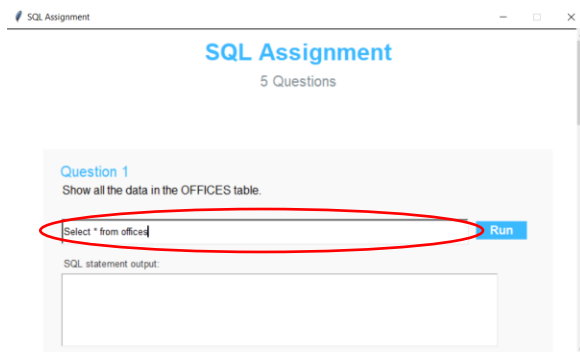

4. Select OK on the Log out messagebox prompt
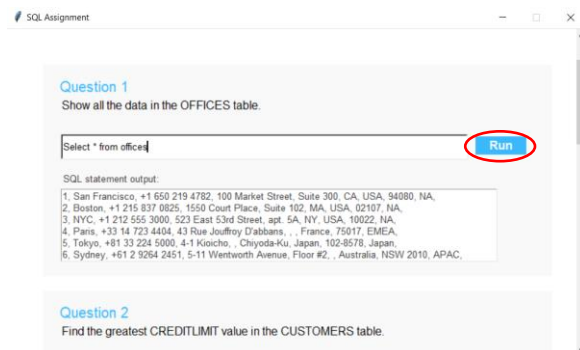
Take Assignment

1. Navigate to Student Home Page

2. Click on Take Assignment button

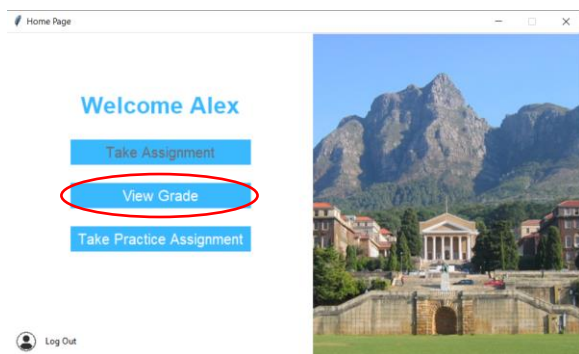3. Answer each question by entering your SQL answer into the answer field.

4. Click on the Run button to view the output produced by your supplied SQL statement

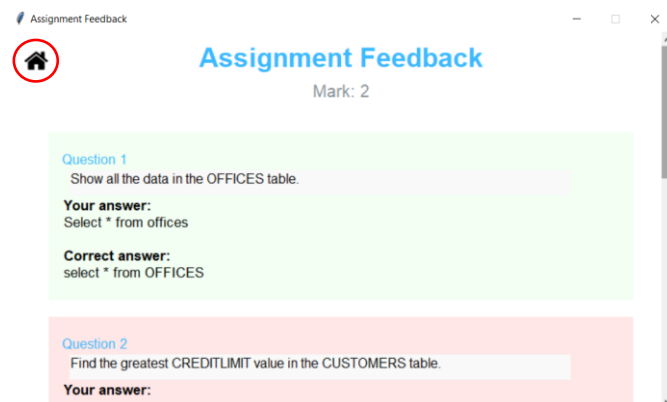5. Click on Submit Assignment when you are finished answering all the questions and are ready to hand in

***Note:** the Take Assignment button will be disabled once you submit your assignment, as you cannot take an assignment again.
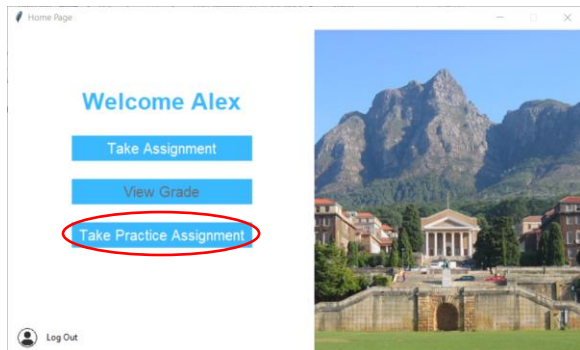
View Grade

1. Navigate to Student Home Page

2. Click on View Grade button
3. You can view your total mark, as well as your answer and the correct answer to each individual question.
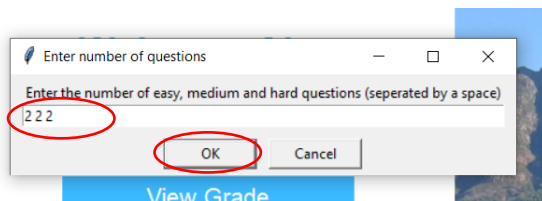

4. Click on the Home icon to return to the student home page
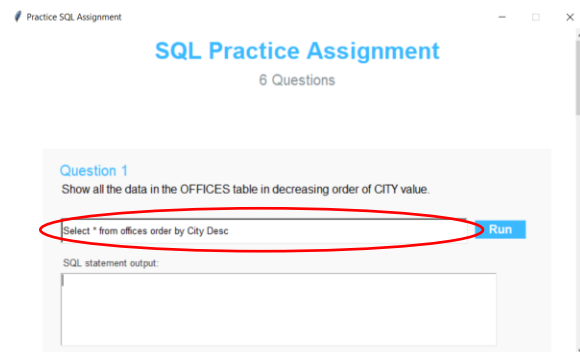
Take Practice Assignment
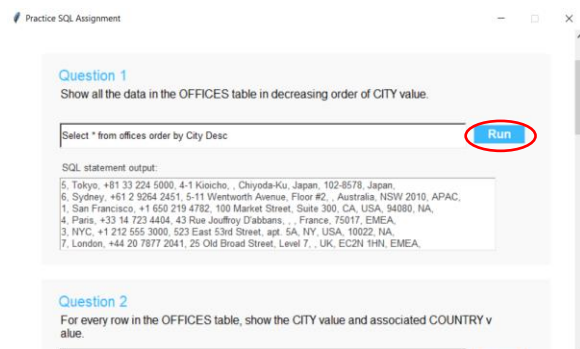
1. Navigate to Student Home Page

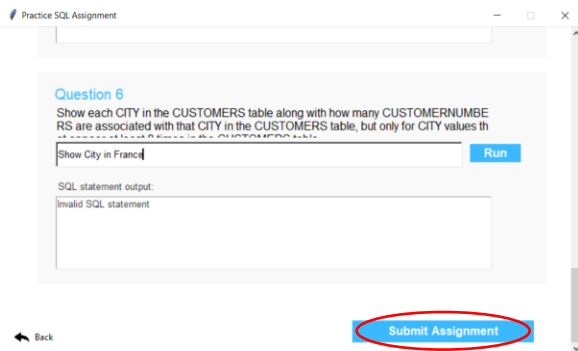2. Click on Take Practice Assignment button

3. In the 'Enter number of questions' messagebox prompt, enter the number of easy, medium, and hard questions you want, separated by a space
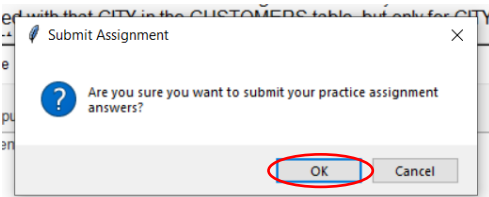
4. Press OK

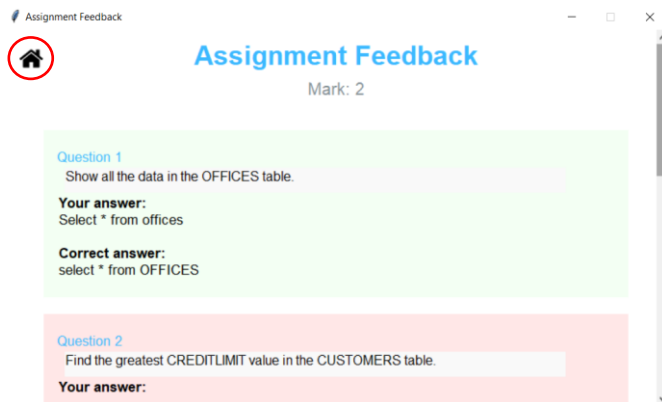5. Answer each question by entering your SQL answer into the answer field.

6. Click on the Run button to view the output produced by your supplied SQL statement

7. Click on Submit Assignment when you are finished answering all the questions and are ready to hand in

8. Select OK on the submit assignment messagebox prompt
9. Taken to the assignment feedback page, you can then view your total mark, as well as your answer and the correct answer to each individual question.

10. Click on the Home icon to return to the student home page