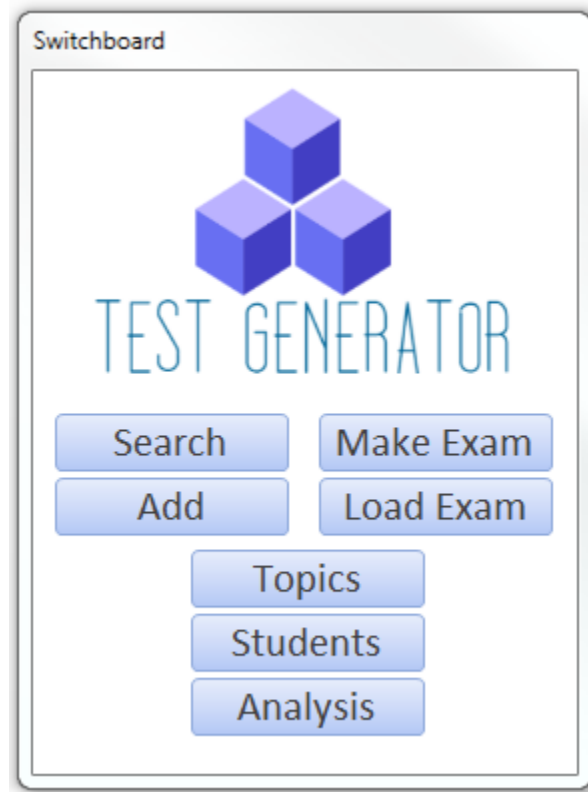


Guide for Test Generator



Version: 1.0

2018

Controls:

Search – Look through the database with the applied filters (3)

Add – Create a new question (4)

Make Exam – Create a new exam from questions in the database with specified requirements (5 - 6)

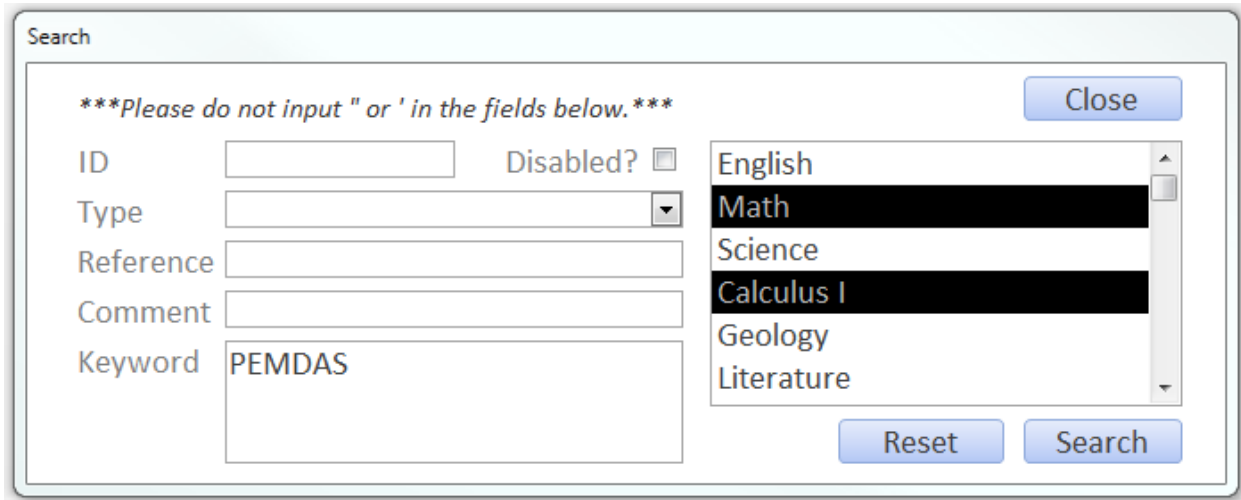
Load Exam – Print an existing exam and its corresponding answer key (7 - 8)

Topics – Edit or enable/disable a topic from future exams (9)

Students – Add or modify Students in the database (10)

Analysis – Tools for analyzing Student performance and trends (11-14)

Search:



Search

Please do not input " or ' in the fields below.

Close

ID Disabled? ☐

Type

Reference

Comment

Keyword PEMDAS

English
Math
Science
Calculus I
Geology
Literature

Reset Search

- Input the information into this form to search for a matching question
 - ID – Unique identifier of the question.
 - Type – Type of question e.g. Multiple Choice or True/False.
 - Reference – The procedure or section of procedure the question is derived from.
 - Comment – Any note the user made on the question.
 - Keyword – Any part of the question text. Not case-sensitive.
 - Topic – Any topic the question falls under. May select multiple.

Search Results

Search Result

ID

2

Topic

Math

Type

Multiple Choice

Question Text

PEMDAS : What is $2*2(3-1) - 2$

Reference

Comment

Disable

False

Close

- Upon filtering to find the question, click the  button to edit the question.

Add:

Question

Question (New) ☐ Disable Cancel Close

Type **Multiple Choice**

Reference

Comment

Text

Select as many topics as necessary

- English
- Math
- Science
- Calculus I
- Geology
- Literature
- Science Fiction

Choices

Choice	Choice Text	Correct?	Order	Disable
		<input type="checkbox"/>		<input type="checkbox"/>

1. Create the question by typing the text in the corresponding fields.
2. Select the topic the question falls under. Multiple topics may be selected.
3. Create the answer choices for the question.
 - Choice – Letter of question e.g. A, B, C...
 - Choice Text – The text corresponding to the choice letter
 - Correct – Indicate if the corresponding choice is correct
 - Order – Specify ordering of choices
 - Disable – Prevents the choice from appearing on future exams

*** Upon closing, the question is auto-saved.

Make Exam:

Make Exam

Create Exam

Close

Please enter the amount of questions from each topic

Topic Name	Amount
English	0
Math	0
Science	0
Calculus I	0
Geology	0
Literature	0
Science Fiction	0

Submit

1. Create a new exam with random questions based on the number selected from each topic.
 - Must select at least one question
 - If there is less questions in the database than the number specified, all the questions from that topic will be pulled instead.

The screenshot shows a window titled "Exam Edit". At the top, there are buttons for "Add", "Remove", and "Edit". Below these is a table with the following columns: ID, Topic, Type, Question Text, Reference, Comment, and Priority. The table contains one row with the following data: ID: 1, Topic: English, Type: Multiple Choice, Question Text: Define enthusiastic, Reference: Dictionary.com, Comment: (empty), and Priority: 1. At the bottom right of the window, there are buttons for "Save Exam" and "Preview Exam".

ID	Topic	Type	Question Text	Reference	Comment	Priority
1	English	Multiple Choice	Define enthusiastic	Dictionary.com		1

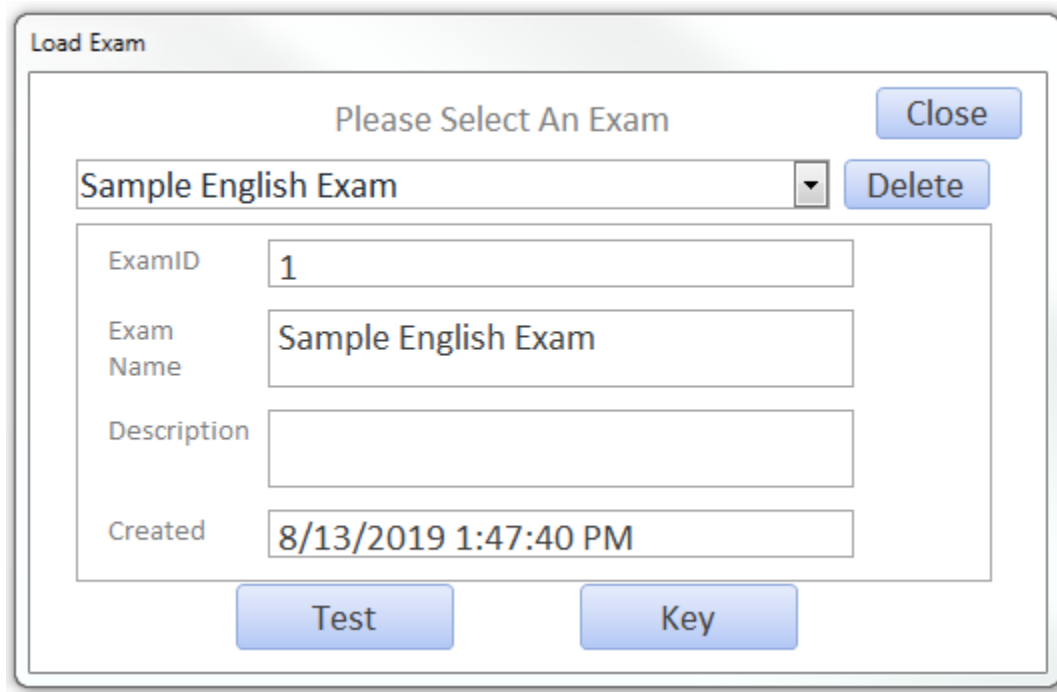
2. In the Exam Edit Environment:

- Click *Add* to search and add a specified question to this exam.
- *Remove* removes the question.
- *Edit* allows the user to modify the question.
- *Refresh* updates the screen to show changes.
- *Preview Exam* creates a visual of the exam.
- *Save Exam* saves the exam to the database. To print the answer key, the user must save the exam.
- *Close* will clear this random pool of question and exit.

The screenshot shows a window titled "Save Exam". It contains the following fields: "ExamID" with a dropdown menu showing "(New)", "Exam Name" with a text input field, "Description" with a text input field, and "Date Generated" with a text input field showing "7/30/2018 9:47:39 AM". There are "Close" and "Save Exam" buttons at the bottom right.

3. Name the exam and put a description if necessary and press *Save Exam*.

Load Exam:



The 'Load Exam' dialog box features a title bar with the text 'Load Exam'. Inside, the main heading is 'Please Select An Exam'. To the right of this heading is a 'Close' button. Below the heading is a dropdown menu currently displaying 'Sample English Exam', with a 'Delete' button positioned to its right. A central panel contains four input fields: 'ExamID' with the value '1', 'Exam Name' with the value 'Sample English Exam', 'Description' which is empty, and 'Created' with the value '8/13/2019 1:47:40 PM'. At the bottom of the dialog are two buttons: 'Test' and 'Key'.

1. Select an exam by name from the dropdown.
2. Press *Test* to preview and print the exam.
3. Press *Key* to preview and print the answer key.
4. Press *Delete* to delete the selected exam.
 - Once an exam is deleted, the exam records for the corresponding exams will also be deleted.

Sample Test:

Sample English Exam

Name: _____ Date: _____

Authored by _____

I have reviewed this exam and deemed this to be within the knowledge recall of the Bulk Power Operators.

Reviewed by _____

1 Reference: **Dictionary.com**

Define enthusiastic

- A Hopeful
- B Excited, ready to begin
- C Disappointed
- D Exalted

I certify that I am the examinee whose name appear on this exam and that I did not recieve unauthorized assistance in taking the exam.

Name _____ Date: _____

Sample Key:

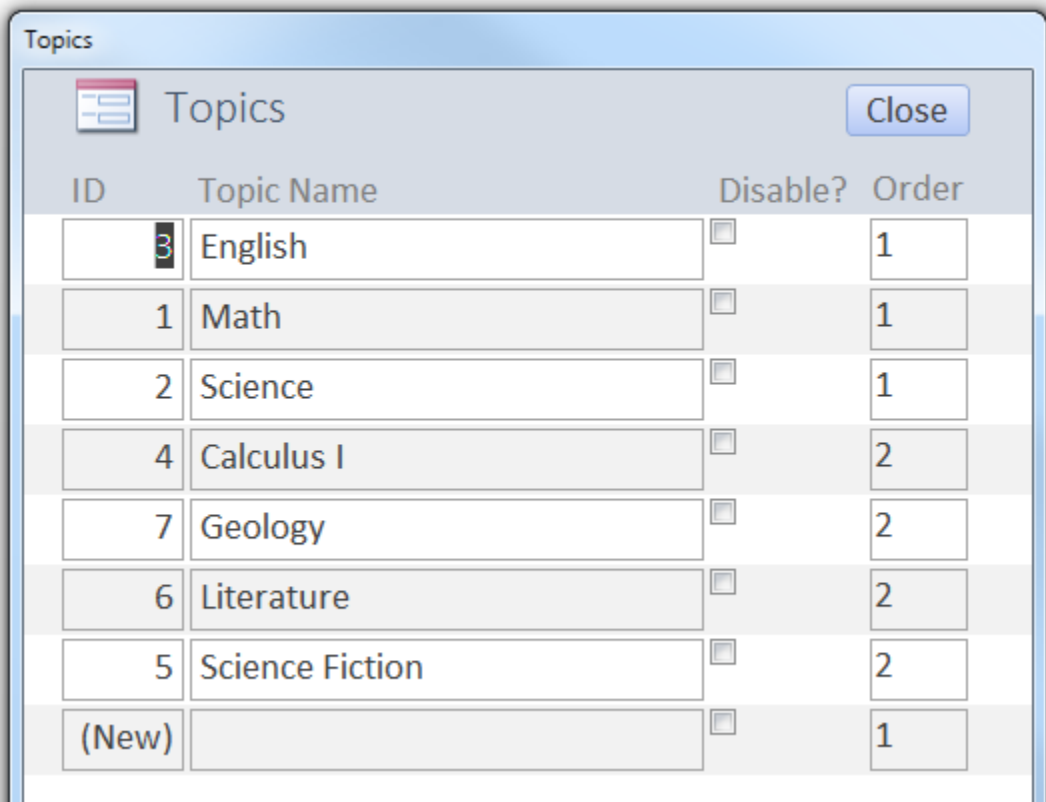
Key Sample English Exam

1 Reference: **Dictionary.com**

Define enthusiastic

- A Hopeful
- B * Excited, ready to begin
- C Disappointed
- D Exalted

Topics:



The screenshot shows a window titled "Topics" with a "Close" button in the top right corner. Below the title bar is a table with four columns: "ID", "Topic Name", "Disable?", and "Order". The table contains eight rows of data. The first row has an ID of 3, Topic Name "English", a disabled checkbox, and an order of 1. The second row has an ID of 1, Topic Name "Math", a disabled checkbox, and an order of 1. The third row has an ID of 2, Topic Name "Science", a disabled checkbox, and an order of 1. The fourth row has an ID of 4, Topic Name "Calculus I", a disabled checkbox, and an order of 2. The fifth row has an ID of 7, Topic Name "Geology", a disabled checkbox, and an order of 2. The sixth row has an ID of 6, Topic Name "Literature", a disabled checkbox, and an order of 2. The seventh row has an ID of 5, Topic Name "Science Fiction", a disabled checkbox, and an order of 2. The eighth row has an ID of "(New)", a blank Topic Name, a disabled checkbox, and an order of 1.

ID	Topic Name	Disable?	Order
3	English	<input type="checkbox"/>	1
1	Math	<input type="checkbox"/>	1
2	Science	<input type="checkbox"/>	1
4	Calculus I	<input type="checkbox"/>	2
7	Geology	<input type="checkbox"/>	2
6	Literature	<input type="checkbox"/>	2
5	Science Fiction	<input type="checkbox"/>	2
(New)		<input type="checkbox"/>	1

1. Add a new topic by selecting the blank textbox beside (New) and typing the name of the topic.
2. Enable/disable a topic by toggling the Disabled checkbox.
3. Order specifies the sequence for which the topics appear when searching for a question or making an exam by topic.
4. Close auto-saves and exits.

Students:

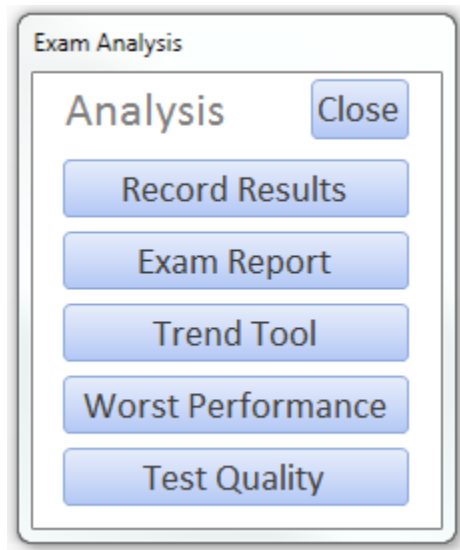
Students

Close

ID	Student ID	First Name	Last Name	Position	Active?
1	12312	Michael	Li	CS	<input checked="" type="checkbox"/>
12	23417	Robo	Tic	CS	<input checked="" type="checkbox"/>
4	46548	Shawn	Foster	CS	<input checked="" type="checkbox"/>
3	31200	Brian	Chase	English	<input checked="" type="checkbox"/>
5	46457	Steven	Harrow	English	<input checked="" type="checkbox"/>
6	31233	Yi Pan	Chen	English	<input checked="" type="checkbox"/>
10	93727	Alexander	The Great	History	<input checked="" type="checkbox"/>
14	12349	Student	Student	History	<input checked="" type="checkbox"/>
15	48422	Test	Testing	History	<input checked="" type="checkbox"/>
8	45468	Patrick	Cook	Math	<input checked="" type="checkbox"/>
7	21342	Robert	De La Ros	Math	<input checked="" type="checkbox"/>
13	12346	Rupert	Donot	Math	<input checked="" type="checkbox"/>
2	31232	Test	Dummy	Math	<input checked="" type="checkbox"/>
9	23483	Psyche	Ponder	Psychology	<input checked="" type="checkbox"/>
11	78234	Sean	Mellow	Psychology	<input checked="" type="checkbox"/>
(New)					<input checked="" type="checkbox"/>

1. To create a new Student, type in data in the corresponding textboxes next to the (New).
2. To modify the information, select the textbox that would be changed and overwrite the information.
 - This can be done when a Student changes position, name or becomes inactive.
3. Close auto-saves and exits.

Analysis:



Record Results – Record a Student's performance on an exam.

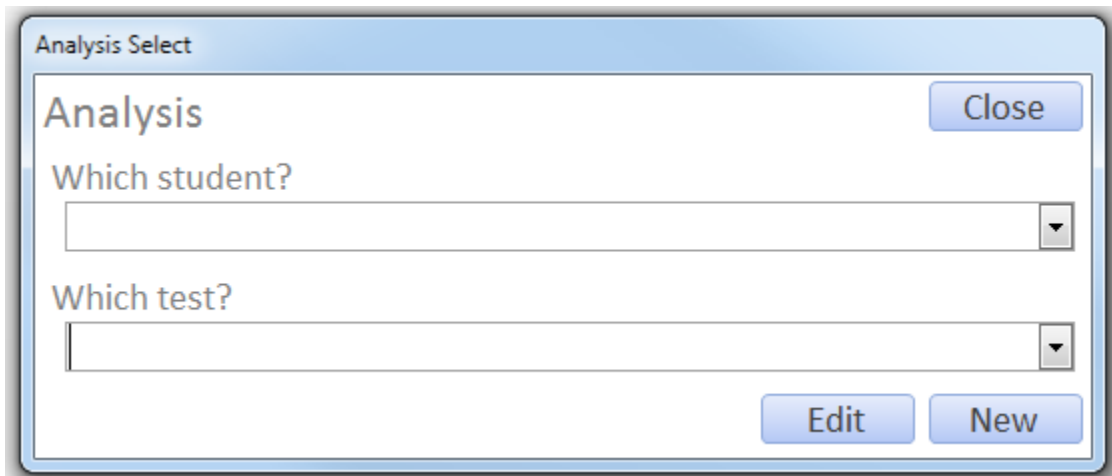
Exam Report – Analyze the overall performance of a Student and the rating of a topic for a specified exam.

Trend Tool – Opens Trend Tool for analysis.

Worst Performance – Select an exam and see the worst performance under a specified percentage

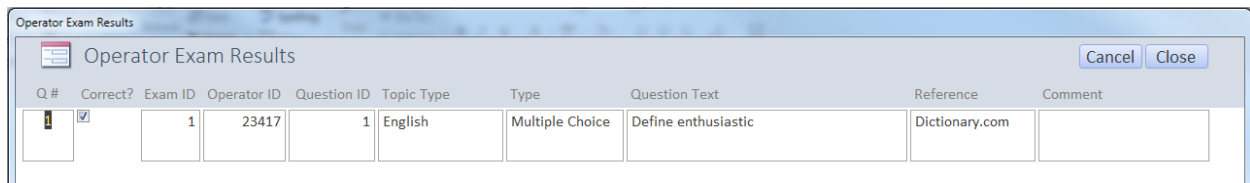
Test Quality – Select an exam and see the worst performance by question.

Record Results:



The **Analysis Select** dialog box has a title bar with the text "Analysis Select". Inside, there is a section titled "Analysis" with a "Close" button to its right. Below this, there are two labels: "Which student?" and "Which test?", each followed by a text input field with a dropdown arrow on the right. At the bottom right, there are two buttons: "Edit" and "New".

1. Select a Student and an exam. Press *Edit* to modify existing records. Press *New* to record new Student scores.



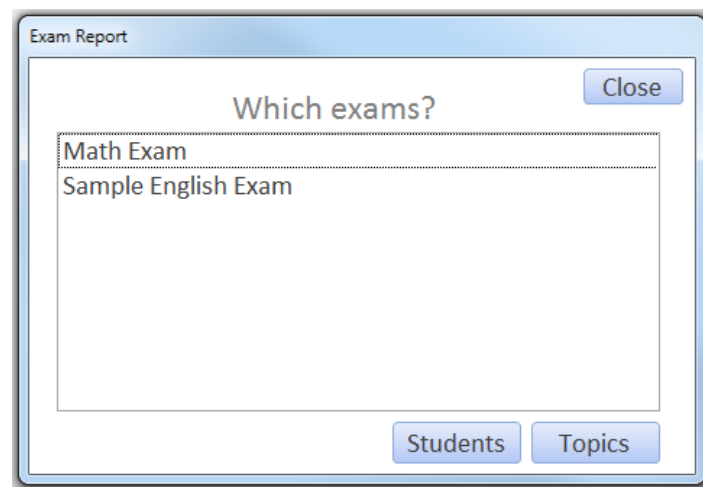
The **Operator Exam Results** window has a title bar with the text "Operator Exam Results". It contains a table with the following columns: Q. #, Correct?, Exam ID, Operator ID, Question ID, Topic Type, Type, Question Text, Reference, and Comment. The first row of data is as follows:

Q. #	Correct?	Exam ID	Operator ID	Question ID	Topic Type	Type	Question Text	Reference	Comment
1	<input checked="" type="checkbox"/>	1	23417	1	English	Multiple Choice	Define enthusiastic	Dictionary.com	

At the top right of the window, there are "Cancel" and "Close" buttons.

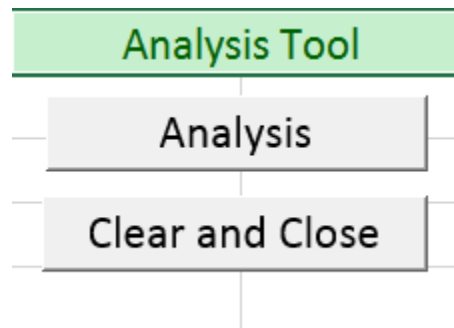
2. Toggle the *Correct?* checkbox to indicate whether the Student got the question correct or incorrect.
3. *Close* to auto-save and exit.

Exam Report:



The **Exam Report** dialog box has a title bar with the text "Exam Report". Inside, there is a section titled "Which exams?" with a "Close" button to its right. Below this, there is a list box containing two items: "Math Exam" and "Sample English Exam". At the bottom, there are two buttons: "Students" and "Topics".

1. Select an exam. Press *Students* to see overall student scores. Press *Topics* to see performance by topic.

Trend Tool:

1. Click *Analysis* and the file will automatically create PivotCharts and PivotGraphs to enable you to see trends by student, trend by topic and trend by position.

Worst Performance:

Worst Performance Analysis

Worst Performance

Exam Name

Sample English Exam

Grade Below (Percentage)

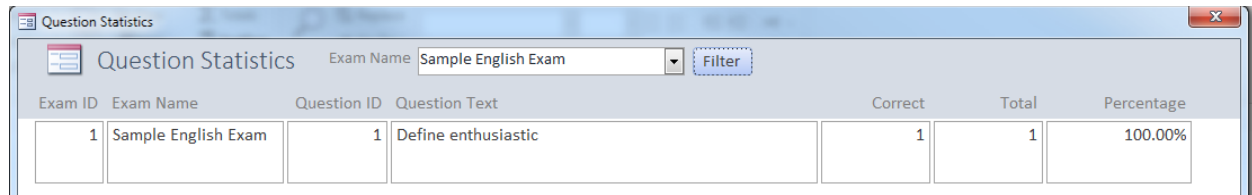
100

Filter

Report

Exam ID	Exam Name	Date Created	Operator ID	Position	First Name	Last Name	Topic Type	Correct	Total	Percentage
1	Sample English Exam	8/13/2019 1:47:40 PM	23417	CS	Robo	Tic	English	1	1	100.00%

1. Select an exam and type in a percentage.
2. Press *Filter* to see the topics that need improvement.
 - Ordered by position, student, percentage
 - Additionally, clicking on the *First Name*, *Last Name*, *Topic Type*, and *Percentage* tabs will order the results correspondingly.
3. Press *Report* to preview and print a copy of the results displayed onscreen.

Test Quality:

The screenshot shows a window titled "Question Statistics" with a close button in the top right corner. Below the title bar, there is a section with "Question Statistics" and a dropdown menu for "Exam Name" set to "Sample English Exam", followed by a "Filter" button. Below this is a table with the following columns: Exam ID, Exam Name, Question ID, Question Text, Correct, Total, and Percentage. The table contains one row of data.

Exam ID	Exam Name	Question ID	Question Text	Correct	Total	Percentage
1	Sample English Exam	1	Define enthusiastic	1	1	100.00%

1. Select an exam and press *Filter* to see the statistics per question.

Questions?

Contact Michael Li

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