ITC313-Assignment 2 Task 1

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Overview

GradingTool provides several functions for managing a database of grades.
Grades are stored with one row per student, with one table per subject.

Pre-requisites

I tested using OpenJDK 1.7 and MySQL 14.14 on Ubuntu:

```
$ java -version
java version "1.7.0_65"
OpenJDK Runtime Environment (IcedTea 2.5.2) (7u65-2.5.2-3~14.04)
OpenJDK 64-Bit Server VM (build 24.65-b04, mixed mode)

$ mysql -V
mysql  Ver 14.14 Distrib 5.5.38, for debian-linux-gnu (x86_64) using readline 6.3
```

Database

The application uses a properties file `db.properties`. Edit this file to select a
database server. The default values are:

```
user=root
password=abc123
server=localhost
port=3306
database=ST11429074
```

How to run

Extract

```
unzip 11429074_ass2.zip
cd ITC313-Ass2-master/task1
```

Create database

```
mysql -u root -p < createDatabase.sql
```

Compile and run using ant

```
ant
```

Expected output

Initial screen with no tables.

Clicking *Create table* without entering a table name gives an error

Type a table name and click *Create table* to create a new, empty table.

The new table appears in the drop-down menu and can be used by clicking *Change table*.

Add a student by entering their details and clicking *Add Student*. Inputs are checked:

Name is missing.

Number is not between 0 and 100.

A number was not entered into one of the grades.

Confirmation when student added:

Click Select to display the new user, including the calculated final score.

Change the column, operator and value to search by any column.

Grading Tool

Tables

Using table one | one ▾ | Change table | Drop table
Create: | | Create table

Select

Column: | ID ▾ | Operator: | <= ▾
Value: | 17 | | Select

ID	Name	Assignmen...	Assignmen...	Assignmen...	Final	Final score
1	Caleb	71	56	31	95	72
2	Miriam	22	11	26	1	10
3	Priscilla	22	68	71	94	77
4	Clay	57	60	94	73	73
5	Tricia	6	47	36	37	35
6	Harold	99	57	28	61	57
7	Sergio	75	31	23	67	51
8	Verna	43	5	5	22	17
9	Robyn	85	66	57	19	42
10	Carolyn	45	78	12	13	29
11	Cecilia	76	74	89	0	40
12	Robin	61	32	71	21	37
13	Roberto	14	95	50	89	74
14	Brent	46	8	32	96	60
15	Monique	49	98	40	76	70
16	Andy	99	0	50	70	54
17	Mathew	92	37	12	41	39

Insert

Name | | Assignment 1 | | Assignment 2 |
Assignment 3 | | Final | | Add Student

Selected 17 students

Use % as a wild card when using like.

Grading Tool
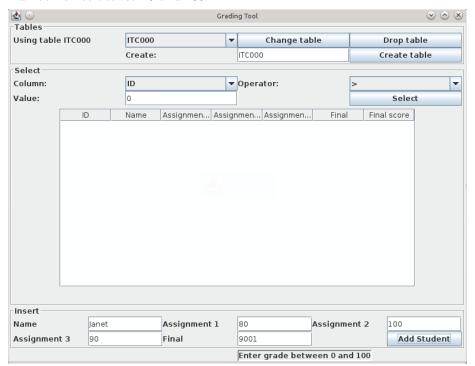
Tables

Using table one | one ▾ | Change table | Drop table
Create: | | Create table

Select

Column: | Name ▾ | Operator: | like ▾
Value: | %er% | | Select

ID	Name	Assignmen...	Assignmen...	Assignmen...	Final	Final score
7	Sergio	75	31	23	67	51
8	Verna	43	5	5	22	17
13	Roberto	14	95	50	89	74
23	Sherry	66	89	33	6	34
27	Gerardo	60	5	74	31	37
33	Chester	78	53	32	64	56
36	Cameron	44	22	91	36	45
52	Sylvester	16	37	2	65	41
57	Christopher	52	17	38	38	35

Insert

Name | | Assignment 1 | | Assignment 2 |
Assignment 3 | | Final | | Add Student

Selected 9 students

Grading Tool

Tables

Using table one	one ▼	Change table	Drop table
	Create:		Create table

Select

Column:	Assignment 1 ▼	Operator:	= ▼
Value:	66		Select

ID	Name	Assignmen...	Assignmen...	Assignmen...	Final	Final score
23	Sherry	66	89	33	6	34

Insert

Name		Assignment 1		Assignment 2	
Assignment 3		Final			Add Student

Selected 1 students

Grading Tool

Tables

Using table one	one ▼	Change table	Drop table
	Create:		Create table

Select

Column:	Final score ▼	Operator:	>= ▼
Value:	60		Select

ID	Name	Assignmen...	Assignmen...	Assignmen...	Final	Final score
1	Caleb	71	56	31	95	72
3	Priscilla	22	68	71	94	77
4	Clay	57	60	94	73	73
13	Roberto	14	95	50	89	74
14	Brent	46	8	32	96	60
15	Monique	49	98	40	76	70
26	Trevor	79	43	81	70	67
38	Lindsay	57	62	92	61	67
40	Seth	56	21	94	82	69
47	Alex	99	83	89	94	91
56	Sarah	89	94	17	98	80

Insert

Name		Assignment 1		Assignment 2	
Assignment 3		Final			Add Student

Selected 11 students