Sample Data FALL 2017

NOTE: Below is the description of sample data that you need to enter in your application before coming for the demo. Some more data will be provided on the day of the demo. The tables just represent the data and they do not need to map directly to any single table. The important thing is that your application should be able to capture the information. Also consider this data as bare minimum(this means that information like a student's address/contact information is not provided but should be captured, there might me more instances like these)

Below are the Student Data

Name	UserId	Password	Level
Tom Regan	tregan	tregan	Undergraduate
Jenelle Mick	jmick	jmick	Grad
Michal Fisher	mfisher	mfisher	Undergrad
Joseph Anderson	jander	jander	Undergrad
Jitendra Harlalka	jharla	jharla	Grad
Aishwarya Neelakantan	aneela	aneela	Grad
Mary Jones	mjones	mjones	Grad
James Moyer	jmoyer	jmoyer	Grad

Below are Faculty Data

Name	UserId	Password
Kemafor Ogan	kogan	kogan
Rada Chirkova	rchirkova	rchirkova
Christipher Healey	chealey	chealey

Below are TA Data

Name	Course
Aishwarya Neelakantan	
Mary Jones	

Score selection:

- Latest attempt
- Maximum score
- Average score

Topic data: List of topics

Topic ID	Topic Name
01	ER Model
02	SQL
03	Storing Data:Disks and Files
04	Primary File Organization
05	Hashing Techniques
06	Binary Tree Structures
07	AVL Trees
08	Sequential File Organization
09	BinarySearch
10	Interpolation Search

Courses Data

Course Id	Course Name	Courses start date	Course End date	Professor	Teaching Assistant	Topics	Students enrolled	Level	Max student allowed	Student enrolled
CSC440	Database Systems	27 Aug. 2017	12 Dec. 2017	Rada Chirkova	Aishwarya Neelakantan, Jenelle Mick	1). Primary file organization 2). Tree Structures	Tom Regan, Michal Fisher, Joseph Anderson	Undergrad	5	3
CSC540	Database Systems	25 Aug. 2017	10 Dec. 2017	Kemafor Ogan	Jitendra Harlalka	1). Introduction to Database Design 2). Storing Data: Disk and Files 3). Primary file organization 4). Tree Structures	Aishwarya Neelakantan, Mary Jones, Jenelle Mick	Grad	5	3

CSC541	Advanced Data Structures	25 Aug. 2017	6 Dec. 2017	Cristopher Healey	James Moyer	1). Primary file organization 2). Tree Structures	Aishwarya Neelakantan, Mary Jones, Jenelle Mick	Grad	5	3

Score Selection

Latest Attempt
Maximum Score
Average Score

Assessment Data:

- Homework 1 for CSC540
- Based on Introduction to database Design
- 2 retries
- Start date: 12 Aug 2017
- End date: 19 September 2017
- Number of points per correct question: 3
- Number of points deducted per question: 1
- Score Selection: latest attempt
- Aishwarya Neelakantan did not attempt the Homework
- Mary Jones attempted twice (first attempt - 5, second attempt -9)
- Jenelle Mick attempted Once (first attempt - 9)
- Difficulty level range: 1-3 (difficulty level is between 1 to 5)
- Questions: Q1, Q2, Q3 (only for one combination of values)

- Homework 2 for CSC540 Adaptive Homework
- Based on Introduction to database Design
- 1 retry
- Start date: 21 September 2017
- End date: 10 October 2017
- Number of points per correct question: 4
- Number of points deducted per question: 1
- Score Selection: average attempt
- Aishwarya Neelakantan attempted thrice (first attempt - 7, second attempt - 12-)

- Mary Jones attempted twice (first attempt - 3, second attempt -7)
- Jenelle Mick did not attempt the homework
- Difficulty level range: 3-5 (difficulty level is between 1 to 5)
- No of questions 3.
- ** Note course is over it's due date

- Homework 3 for CSC540
- Based on Storage data: Disks and Files
- Unlimited retries
- Start date: 12 October 2017
- End date: 30 October 2017
- Number of points per correct question: 4
- Number of points deducted per question: 0
- Score Selection: average attempt
- Aishwarya Neelakantan attempted thrice (first attempt - 8, second attempt - 4, third attempt - 12)
- Mary Jones attempted twice (first attempt - 8, second attempt - 12)
- Jenelle Mick did not attempt the homework
- Questions: Q1, Q2, Q3
- Difficulty level range: 3-5 (difficulty level is between 1 to 5)
- ** Note course is over it's due date

Questions and Data

Question 1 [Q1]
Topic: Introduction to database design
Text: Question 1?
Ans 1: Correct ans 1,
Short Explanation: ""
Ans 2: Correct ans 2,
Short Explanation: ""
Ans 3: Incorrect ans, 3
Short Explanation: short explanation 3
Ans 4: Incorrect ans, 4
Short Explanation: short explanation 4
Ans 5: Incorrect ans, 5
Short Explanation: short explanation 5
Ans 6: Incorrect ans, 6
Short Explanation: short explanation 6
Hint: Hint text Q1
Detailed explanation: detailed Explanation Q1
Difficulty - 2

Question 2 [Q2]
Topic: Introduction to database design
Text: Question 2?
Ans 1: Correct ans 1,
Short Explanation: ""
Ans 2: Correct ans 2,
Short Explanation: ""
Ans 3: Correct ans, 3
Short Explanation: ""
Ans 4: Incorrect ans, 4
Short Explanation: short explanation 4
Ans 5: Incorrect ans, 5
Short Explanation: short explanation 5
Ans 6: Incorrect ans, 6
Short Explanation: short explanation 6
Hint: Hint text Q2

Detailed explanation: detailed Explanation Q2
Difficulty - 3

Question 3 [Q3] - Parameterized Question
Topic: Introduction to database design
Root Question: Consider a disk with a <sector size>, <tracks per surface>, <sectors per track>, <double sided platters>, <average seek time>.
What is the capacity of a track in bytes?

Parameters/value1, value2:
Sector size/ 512 bytes, 256 bytes
Tracks per surface/ 2000, 1000
Sectors per track/ 50, 100
Number of double-sided platters/ 5, 10
Average seek time/ 10msec, 20msec
Difficulty - 2

Answers for combination of value1:
Ans 1: Correct ans 1v1,
Short Explanation: “”
Ans 2: Correct ans 2v1,
Short Explanation: “”
Ans 3: Correct ans, 3v1
Short Explanation: “”
Ans 4: Incorrect ans, 4v1
Short Explanation: short explanation 4
Ans 5: Incorrect ans, 5v1
Short Explanation: short explanation 5
Ans 6: Incorrect ans, 6v1
Short Explanation: short explanation 6
Ans 7: Incorrect ans, 7v1
Short Explanation: short explanation 7
Ans 8: Incorrect ans, 8v1
Short Explanation: short explanation 8
Hint: Hint text Q3
Detailed explanation: detailed Explanation Q3

Answers for combination of value2:
Ans 1: Correct ans 1v2,
Short Explanation: “”
Ans 2: Correct ans 2v2,
Short Explanation: “”
Ans 3: Correct ans, 3v2
Short Explanation: “”
Ans 4: Incorrect ans, 4v1
Short Explanation: short explanation 4
Ans 5: Incorrect ans, 5v1
Short Explanation: short explanation 5
Ans 6: Incorrect ans, 6v1
Short Explanation: short explanation 6
Ans 7: Incorrect ans, 7v1
Short Explanation: short explanation 7
Ans 8: Incorrect ans, 8v1
Short Explanation: short explanation 8
Hint: Hint text Q3
Detailed explanation: detailed Explanation Q3

Sample Queries

The following queries will be run on Demo day so make sure your application can produce the appropriate results.

1. Find names of all students of CSC540 that attempted Hw 1 but did not attend Hw2.
2. Give list of students whose score increased on second attempt
3. List all courses and number of students enrolled
4. Show a report of all homework and attempts for all students enrolled in CSC540