

Following is the description of each table and their attributes:

users [Users of the system]

Field	Type	
user_id	varchar(20)	Login id
user_name	varchar(50)	Full name
user_password	varchar(25)	Password
role_id	int(11)	See next table

roles [Type of Login]

Field	Type	
role_id	int(11)	Primary key
role_name	varchar(20)	Role i.e "Administrator", "Student", etc.
role_url	varchar(200)	URL to where the browser will redirect for this role

assessment [Name and ID of individual assessments]

Field	Type	
a_id	int(11)	Primary Key
a_name	varchar(50)	Title of the Assessment

assessment_question

[Determines which assessment has which question/s in it (Many to many mapping)]

Field	Type	
a_id	int(11)	Key from the previous table
q_id	int(11)	Question Id.

options [Contains option text and ID]

Field	Type	
option_id	int(11)	Primary Key
option_text	varchar(100)	What is displayed as the option

questions [Question text, Question ID and id of the correct option]

Field	Type	
q_id	int(11)	Primary Key
q_text	varchar(100)	What is displayed as the question
answer_id	int(11)	The option ID of the correct question

question_option

[Determines which question has which options (Many to many mapping)]

Field	Type	
q_id	int(11)	Key of Question
option_id	int(11)	Key of Option

user_answers

[Records what the user has answered for a question as well as the correct option]

Field	Type	
user_id	varchar(20)	User ID
option_selected	int(11)	ID of the option selected by the user
option_correct	int(11)	ID of the actual correct answer
q_id	int(11)	Question ID
a_id	int(11)	Assessment ID

Procedure get_results [Used to display the score of a particular user for a particular assessment]

call get_results('abc', 1)

Name	Assessment Name	Marks Obtained	Maximum Marks
abc	General Knowledge	10	20

The user('abc') has correctly answered 1 question out of 2 for the specified Assessment(1)

[Which is understood from the user_answers table].

I have assumed that all questions carry 10 marks each.