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# IIITBSQL

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Question Type Plugin  
for LMS – User Doc

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## IIITBSQL – Plugin Overview

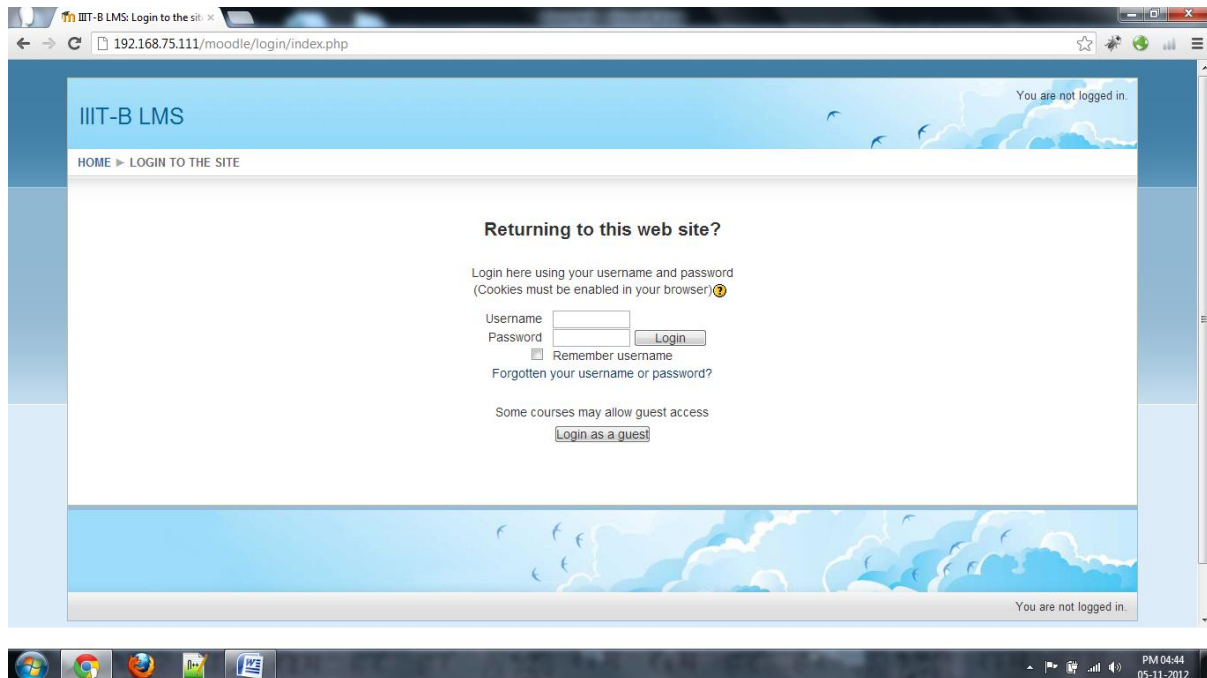
The plugin 'IIITBSQL' is a 'question type' plugin. With the help of this plugin, a question can be created which expects a 'Mysql' query response. The creator of the question can supply one or more queries as answers and can also supply grades for the queries individually.

**Evaluation Technique:** The plugin first executes the “Correct Answer” (as supplied by the creator of the question) and obtains a result-set. Then the plugin executes the “Response Answer” and obtains the result-set. Both the result-sets are then compared and the grade is awarded.

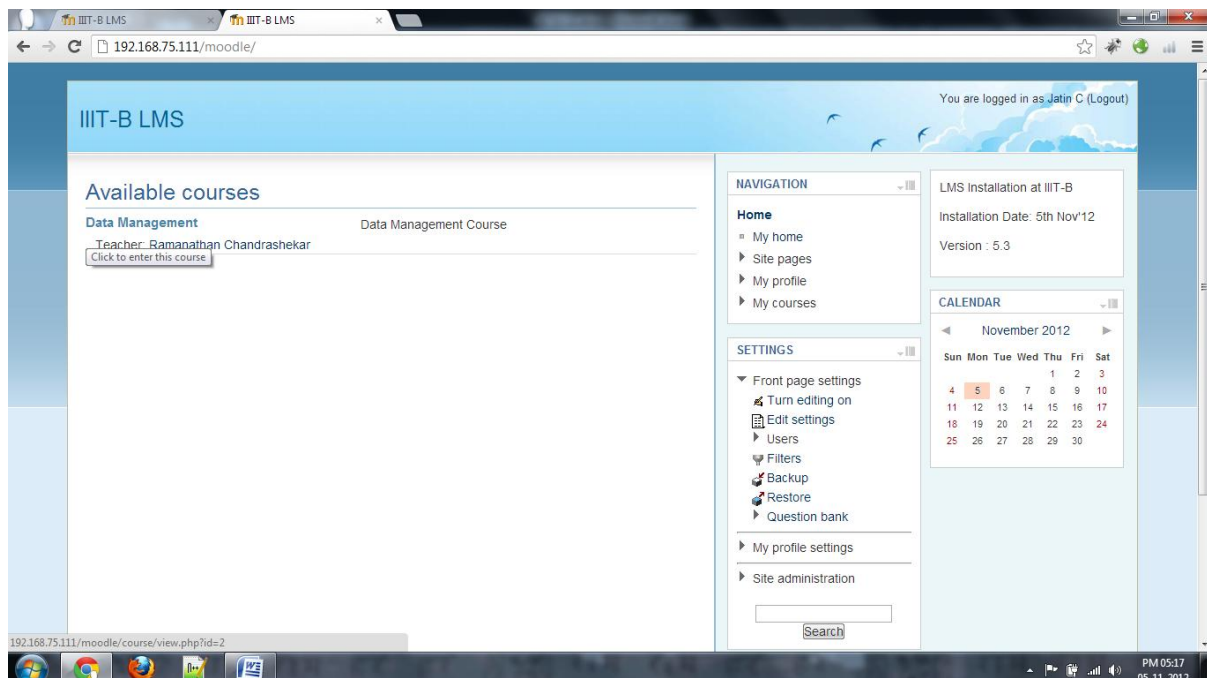
**Result-set Comparison:** There can be many ways in which the result-sets can be compared. As of now, the plugin converts the result-sets to strings and does a string comparison. Exact match fetches a full fraction of the associated grade.

# Login

Login to moodle using the URL: <http://192.168.75.111/moodle/login/index.php>



Click on the Course



## Creating the “IIITBSQL” question

The process of creating the question can be broadly divided into two parts:

### **Step 1.      Setting up the database.**

The “Teacher” or “TA” should first set up the database.

In this example, database “trial” was setup and used for creating the questions.

The exact name of the database should be supplied at the time of creating the question.

### **Step 2.      Creating the question in LMS.**

The question type that is to be used to create the question is: **iiitbsql**

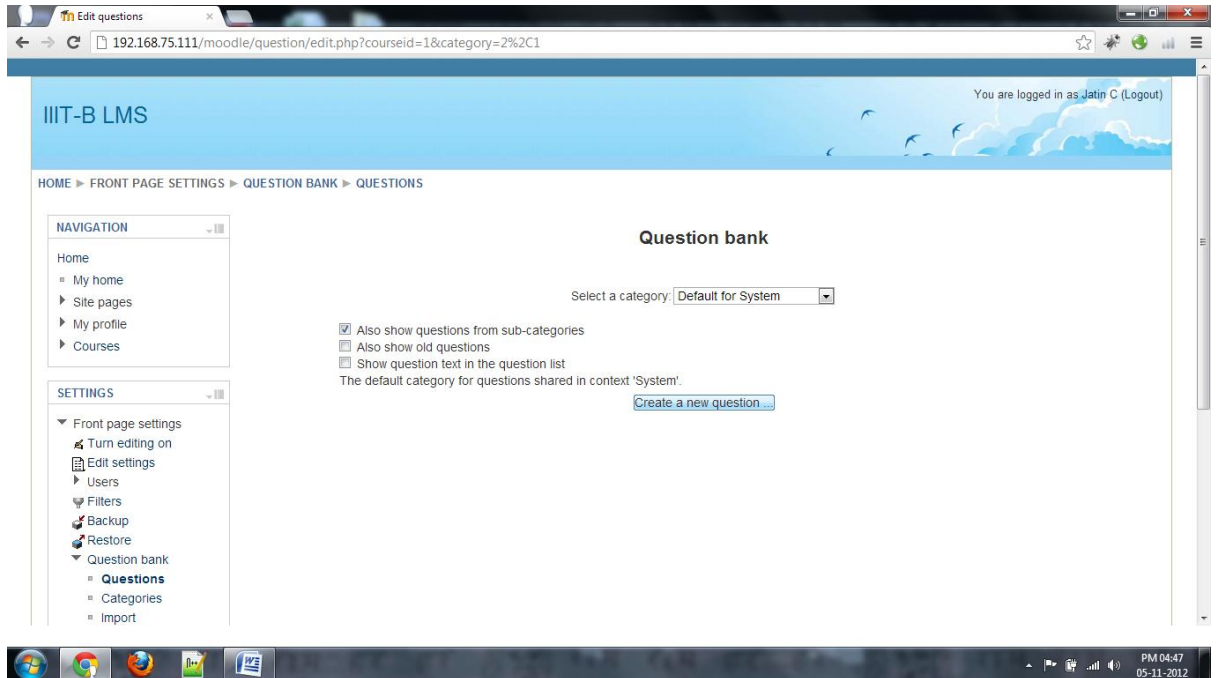
The questions can be created in the question bank, they can be created for a particular quiz or category. The steps for creating a question are shown with screenshots later in this document.

The question type provides the flexibility for supplying more than one “query” as expected answer for the question along with the “grade”.

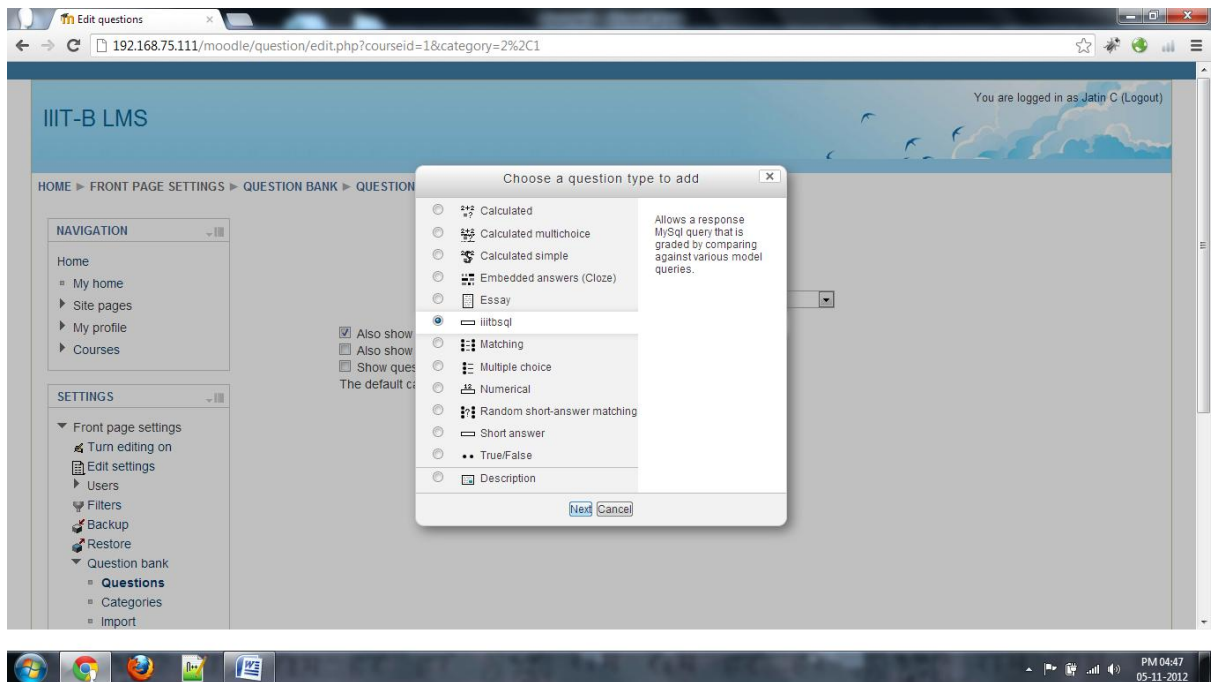
Multiple Questions can be clubbed together to form a quiz.

## Creating the question in LMS: Steps and Screenshots

1. Click on “Create a new question”. Here we are creating a question directly in the question bank. A question can be created specifically for one quiz.



2. Select the question type “iiitbsql” and click on “Next”.



3. Select appropriate “Category”, give “Question Name” (this should be unique + meaningful), “Question Text”, “Default Marks” and “General Feedback” (optional).

The screenshot shows the Moodle question editing interface. On the left is a sidebar with navigation links: Home, My home, Site pages, My profile, Courses, SETTINGS (Front page settings, Turn editing on, Edit settings, Users, Filters, Backup, Restore, Question bank, My profile settings, Site administration), and a search bar. The main content area is titled 'General' and contains the following fields:

- Category:** A dropdown menu set to 'Default for System'.
- Question name:** A text field containing 'SQL1'.
- Question text:** A rich text editor containing the text: 'Write a query to select all the names from the table "student" in the database "trial".'
- Default mark:** A text field containing '5'.
- General feedback:** A rich text editor containing the text: 'This was easy.'
- Path:** A text field containing 'p'.
- dbname:** A text field (empty).
- Case sensitivity:** A dropdown menu set to 'No, case is unimportant'.

4. Give the name of the database that is to be used in this question. This is important and necessary. Leave the case sensitivity field to its default value “No, case is unimportant”.

This screenshot shows the same Moodle question editing interface, but with the 'Answer 1' tab selected. The 'General' tab fields remain visible. The 'Answer 1' section includes:

- Answer:** A text field (empty).
- Grade:** A dropdown menu set to 'None'.
- Feedback:** A rich text editor (empty).

Below the 'Answer 1' section, there is a note: 'Correct answers You must provide at least one possible answer. Answers left blank will not be used. The first matching answer will be used to determine the score and feedback. Please do not put ; after the query.'

5. In the form with the header “Answer 1”, write the query that gives the expected answer. Select the “Grade” (normally 100%). Provide “Feedback” if any.

The screenshot shows the Moodle question editing interface. At the top, there is a navigation bar with the URL `192.168.75.111/moodle/question/question.php?returnurl=%2Fquestion%2Fedit.php%3Fcourseid%3D1%26cat%3D2%252C1%26page%3D0&courseid=1&category=`. Below the navigation bar, a message states: "Correct answers You must provide at least one possible answer. Answers left blank will not be used. The first matching answer will be used to determine the score and feedback. Please do not put ; after the query." The main content area is titled "Answer 1" and contains a form with the following fields: "Answer" (text input with value "select name from student"), "Grade" (dropdown menu with value "100%"), and "Feedback" (rich text editor with value "Your answer is correct."). Below the feedback field is a "Path" field with value "p". To the right of the "Answer 1" form is a link that says "Blanks for 1 more choices". Below the "Answer 1" form is a section titled "Settings for multiple tries" with a "Penalty for each incorrect try\*" field set to "33.33333%". Below this is a "Hint 1" section with a "Hint text" field (empty) and a "Path" field with value "p". Below the "Hint 1" section is a "Hint 2" section with a "Hint text" field (empty) and a "Path" field (empty). The bottom of the screenshot shows a Windows taskbar with various icons and a system clock showing "PM 04:56 05-11-2012".

If you want to add more answers, click on “Blanks for 1 more answer”.

The screenshot shows the Moodle question editing interface with two answers configured. The "Answer 1" section is identical to the previous screenshot. Below it is the "Answer 2" section, which contains a form with the following fields: "Answer" (text input with value "select \* from student"), "Grade" (dropdown menu with value "60%"), and "Feedback" (rich text editor with value "Only the column 'name' was expected."). Below the feedback field is a "Path" field with value "p". To the right of the "Answer 2" form is a link that says "Blanks for 1 more choices". Below the "Answer 2" form is a section titled "Settings for multiple tries" with a "Penalty for each incorrect try\*" field set to "33.33333%". The bottom of the screenshot shows a Windows taskbar with various icons and a system clock showing "PM 04:59 05-11-2012".

Leave the rest of the fields to their default values or customize as per need.



6. Click on “Save Changes” at the bottom of the page.

Editing a iitbsql question

192.168.75.111/moodle/question/question.php?returnurl=%2Fquestion%2Fedit.php%3Fcourseid%3D1%26cat%3D2%252C1%26qpage%3D0&courseid=1&category=.

Path: p

Add another hint

Tags

Tags Official tags (Manage official tags)

None

Other tags (enter tags separated by commas)

Save changes Cancel

There are required fields in this form marked \*

You are logged in as Jatin C (Logout)

Moodle Docs for this page

Home

PM 05:00 05-11-2012

7. The saved question is now visible and is ready to be used.

Edit questions

192.168.75.111/moodle/question/edit.php?courseid=1&cat=2%2C1&qpage=0

IIIT-B LMS

You are logged in as Jatin C (Logout)

HOME > FRONT PAGE SETTINGS > QUESTION BANK > QUESTIONS

NAVIGATION

- Home
- My home
- Site pages
- My profile
- Courses

SETTINGS

- Front page settings
  - Turn editing on
  - Edit settings
  - Users
  - Filters
  - Backup
  - Restore
- Question bank
  - Questions
  - Categories
  - Import
  - Export

Question bank

Select a category: Default for System (1)

☒ Also show questions from sub-categories

☐ Also show old questions

☐ Show question text in the question list

The default category for questions shared in context 'System':

Create a new question

Question

Question	Created by	Last modified by
SQL1	Jatin C	Jatin C

With selected:

Delete Move to >> Default for System (1)

PM 05:01 05-11-2012