

---

# IIITBSQL

---

## Question Type Plugin Installation Manual

---

JATIN CHAUDHARY MT2011050

---

## Contents

Before you do anything else.....	3
Moodle Requirements.....	3
Plugin Code and Files.....	3
Installation Steps .....	3
Verifying the Installation .....	5
Uninstalling the Plugin.....	6
If you have problems.....	6

# IIITBSQL – Question Type Plugin

---

This document gives some important advice you should consider before adding this plugin and general instructions on how to install it.

## Before you do anything else...

Before you start installing this plugin please ensure that the following requirements are met:

### Moodle Requirements

- You must have access to your Moodle code files to upload or install the plugin. If you installed Moodle in the first place then you should be fine. There is no way to install plugins through the web interface.
- This plugin has been created and tested for Moodle version 2.3 with the new Question Type behaviour. So the target installation should preferably be 2.3 or greater.
- You should have access and permissions on the local MySQL installation. You would be required to create a user and grant some privileges to the user.

### Plugin Code and Files

The required files are present in the folder *iiitbsql.zip*

### Installation Steps

Please follow the installation steps as given below:

1. Create a new user on the MySQL Server.

For example to create a user with **username: readuser** and **password: thanks123**, the following commands can be used:

```
create user 'readuser'@'localhost' identified by 'thanks123';
```

Grant select privileges to this user. This can be done by following command:

```
GRANT SELECT ON * . * TO 'readuser1'@'localhost' IDENTIFIED BY 'thanks123'  
WITH MAX_QUERIES_PER_HOUR 0 MAX_CONNECTIONS_PER_HOUR 0  
MAX_UPDATES_PER_HOUR 0 MAX_USER_CONNECTIONS 0 ;
```

2. Establish the correct place to install the plugin.

The correct place to install this plugin is **/path/to/moodle/question/type/**

This is general is also true for other Question Type plugins.

3. Unzip the folder *iiitbsql.zip*.

4. Locate and open the file *qtype\_iiitbsql.php* in any editor.

The file can be found at location **iiitbsql/lang/en/**

5. Edit lines at number 27, 28 and 29.  
`$string['db_hostname'] = 'localhost';`  
`$string['db_username'] = 'readuser';`  
`$string['db_password'] = 'thanks123';`

In most of the cases, the value of `$string['db_hostname'] = 'localhost'`. In case moodle installation is configured to use a remote MySQL installation, please replace 'localhost' with 'IP:Port' i.e. the complete address at which the MySQL server can be reached.

The value of `$string['db_username']` is the user that is created in the **Step 1** above.

Similarly, the value of `$string['db_password']` is the password for the user that is created in the **Step 1** above.

**Save and close the file.**

6. Copy the entire folder to the Location as mentioned in **Step2**.
7. Restart Apache Server.
8. In the Moodle site (login as admin) and go to Settings > Site administration > Notifications.

The screen will show a notification as shown below:

The screenshot shows the Moodle admin interface at `localhost/moodle/admin/index.php`. A notification box at the top states: "This page displays plugins that may require your attention during the upgrade. Highlighted items include new plugins that are about to be installed, updated plugins that are about to be upgraded and any missing plugins. Contributed plugins are also highlighted. It is recommended that you check whether there are more recent versions of contributed plugins available and update their source code before continuing with this Moodle upgrade." Below this is a button "Check for available updates" and a timestamp "Last check done on 6 September 2012, 10:36 PM".

Below the notification, it says "Number of plugins requiring your attention: 4" and a link "Display the full list of installed plugins".

Plugin name	Directory	Source	Current version	New version	Requires	Status
Question types						
iiitbsql	/question/type/iiitbsql	Contributed		2012061700	Moodle 2012061700	To be installed

Below the table are buttons for "Reload" and "Upgrade Moodle database now". At the bottom, a message says "Moodle Docs for this page".

9. Click on the button “Upgrade Moodle database now”.

The site should show “Success” message.

The screenshot shows the Moodle admin interface at `localhost/moodle/admin/index.php?confirmplugincheck=1`. A large blue banner at the top says "Upgrading to new version". Below the banner, the text "qtype\_iiitbsql" is displayed. A green "Success" message is shown, followed by a "Continue" button.

10. Click on the button “Continue”. This finishes the installation process.

## Verifying the Installation

There are different ways in which the installation can be verified. A few of them are explained below.

- In the Moodle site (login as admin) and go to **Site administration ► Plugins ► Plugins overview**. The plugin should be listed under the Question Type category.

← → ↻ localhost/moodle/admin/plugins.php

Tags block_tags	Standard	2012061700	Enabled	Settings Uninstall	
Question types					
Calculated qtype_calculated	Standard	2012061700		Uninstall	Required by: qtype_calculatedmulti, qtype_calculatedsimple, qtype_trial
Calculated multichoice qtype_calculatedmulti	Standard	2012061700		Uninstall	
Calculated simple qtype_calculatedsimple	Standard	2012061700		Uninstall	
Description qtype_description	Standard	2012061700		Uninstall	
Essay qtype_essay	Standard	2012061700		Uninstall	
iiitbsql qtype_iiitbsql	Contributed	2012061700		Uninstall	

- In the moodle database on MySQL server, a table should have been created by the name **Mdl\_question\_iiitbsql**

phpMyAdmin

Database: moodle (305)

Table: mdl\_question\_iiitbsql

Page number: 1 > >>

Page number: 1 > >>

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 sec)

```
SELECT *
FROM `mdl_question_iiitbsql`
LIMIT 0, 30
```

Field	Type	Collation	Attributes	Null	Default	Extra	Action
id	bigint(10)			No	None	AUTO_INCREMENT	
question	bigint(10)			No	0		
answers	varchar(255)	utf8_unicode_ci		No			
usecase	tinyint(2)			No	0		
dbname	varchar(255)	utf8_unicode_ci		No	0		

Check All / Uncheck All With selected:

Print view Relation view Propose table structure

Add 1 field(s) At End of Table At Beginning of Table After id Go

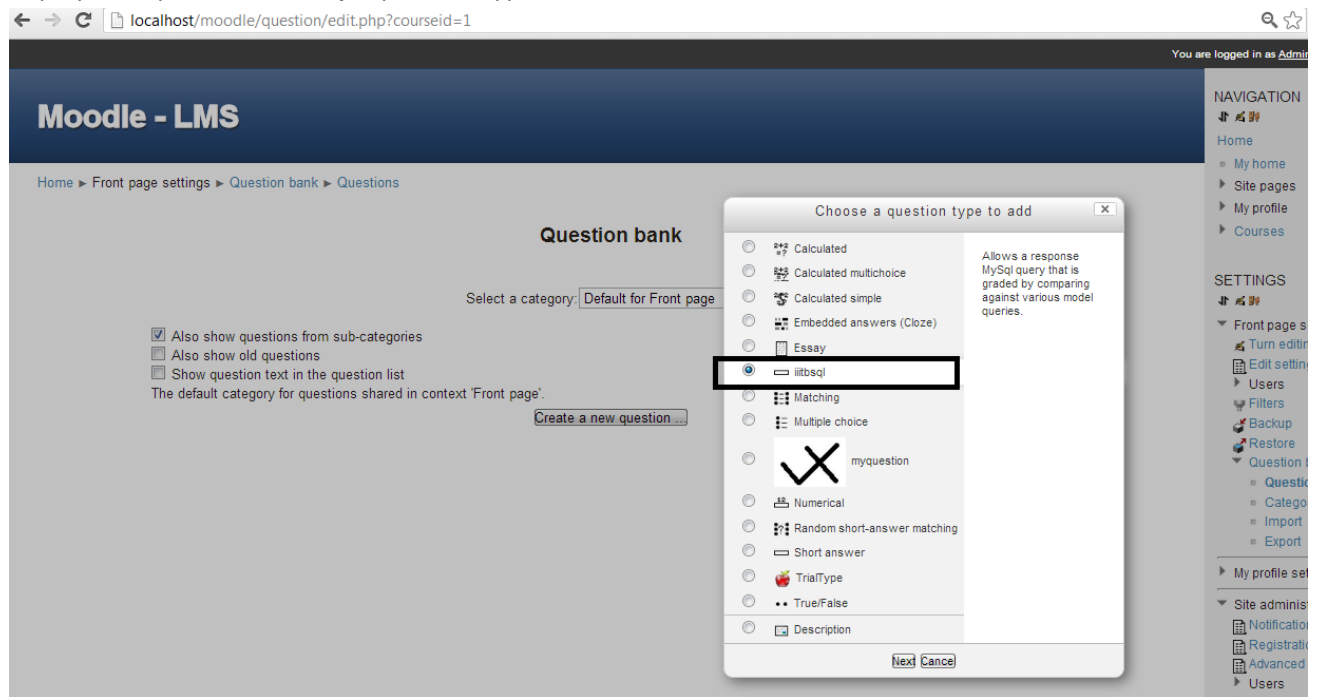
Indexes:

Action	Keyname	Type	Unique	Packed	Field	Cardinality	Collation	Null	Comment
PRIMARY		BTREE	Yes	No	id	0	A		
	mdl_quesiiit_que_ix	BTREE	No	No	question	0	A		

Create an index on 1 columns Go

+ Details...

- In the Moodle site go to Question Bank and click on “Create a new question”. The pop-up menu will display the option of “iiitbsql” question type.



## Uninstalling the Plugin

To uninstall iiitbsql plugin

1. Go to *Settings > Site Administration > Plugins > Plugins overview* and click the Uninstall link opposite to the iiitbsql plugin.
2. Use a file manager to remove/delete the actual plugin directory, otherwise Moodle will reinstall it next time you access the site administration.

## If you have problems...

- Check the file permissions. The web server needs to be able to read the plugin files. If the rest of Moodle works then try to make the plugin permissions and ownership match.
- Did you **definitely** unzip or install the block in the correct place?
- Make sure the directory name for the plugin is correct. All the names **have** to match. If you change the name then it won't work.
- Turn on Debugging - any error messages?
- Last but not the least feel free to contact:

Jatin Chaudhary – [Jatin.chaudhary@iiitb.org](mailto:Jatin.chaudhary@iiitb.org) – # +91-88610447701