Лабораторная работа №1

Дисциплина: «Технологии организации сетевых приложений» Tema: «Data Definition Language (DDL)»

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Группа	ПрИн-6
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Дата	25.12.13

Задача

Общее задание

Привести систему оценивания модуля Moodle Poasassignment к формату Advanced Grading Method. А также привести метод оценивания на основе взвешенной суммы, применённый в Poasassignment к виду AGM.

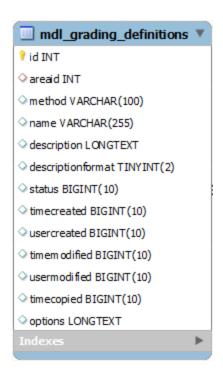
Задание на лабораторную работу

- 1) Создать логическую диаграмму БД, показать на ней изменения состава таблиц.
- 2) Создать файл описания таблиц плагина install.xml.
- 3) Создать файл обновления плагина upgrade.php.

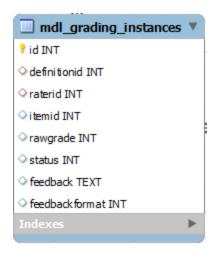
Описание таблиц

Общий модуль:

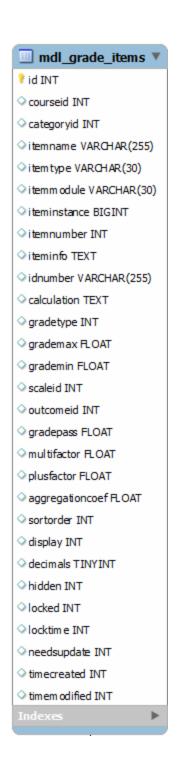
- mdl_grading_definition - отвечает за хранение созданных с нуля или по шаблону Grading methods.



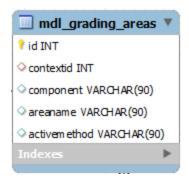
- mdl_grading_instances отвечает за хранение информации о конкретных актах оценивания некоторым преподавателем. Содержит:
- rawgrade, т.е. нормализованную (0..100) оценку, независимо от критериев (используется для вывода в полях "Общая оценка");
 - raterid id преподавателя, оценившего работу;
 - itemid ссылка на id оценки в таблице mdl_grade_items;
 - feedback отзыв о работе студента;



- mdl_grading_itemid отвечает за хранение оценок. Содержит:
 - courseid ссылку на курс в таблице mdl_course;
 - itemtype тип оцениваемой активност, например course или mod;
- itemmodule название модуля, в котором происходит оценка, например assign;

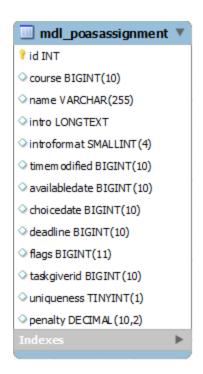


- mdl_grading_areas - отвечает за хранение областей, где происходит оценивание с помощью AGM. Хранит информацию о контексте оценивания, в каком activity-компоненте происходит оценивание (например, mod_assign), какой AGM-плагин следует применить (например, rubric), название области оценивания.



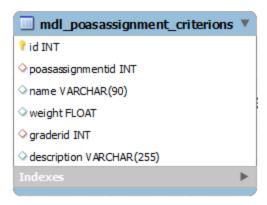
Модуль Poasassignment (прежнее состояние)

- mdl_poasassignment - отвечает за хранение базовой информации о модуле poasassignment. Хранит id курса, к которому принадлежит, описание данного экземпляра poasassignment, способ выдачи задания (случайное, выбор студента и т.д.).

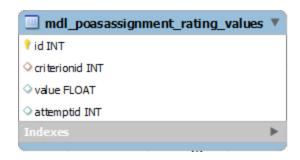


- mdl_poasassignment_criterions - отвечает за хранение критериев

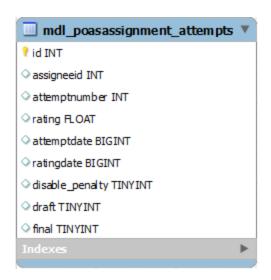
poasassignment и их веса.



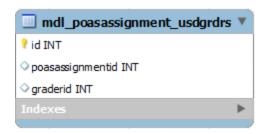
- mdl_poasassignment_rating_values - таблица, хранящая номер критерия, значение оценки и номер попытки.



- mdl_poasassignment_attempts хранит:
 - assigneeid id студента;
 - attemptnumber номер попытки;
 - rating общий рейтинг (исходя изо всех критериев);
 - attemptdate дату сдачи задания;
 - ratingnumber дату оценивания;
 - disable_penalty отключить штрафные баллы?
 - draft черновик?
 - final финализировать оценку?



-mdl_poasassignment_used_graders (переименована в mdl_poasassignment_usdgrdrs (из-за превышения 28 символов (для Oracle))) - содержит соотношение модулей poasassignment с grader'ами.



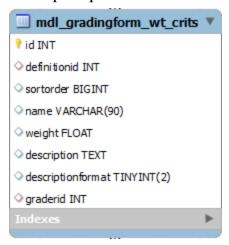
Модуль Weighted Total (проектируемый)

Этот модуль реализует метод оценивания на основе взвешенной суммы критериев (применяемые в Poasassignment), совместимый с Advanced Grading Methods. Модуль не зависит от Poasassignment и может использоваться в любом виде активности, поддерживающем Advanced Grading Methods.

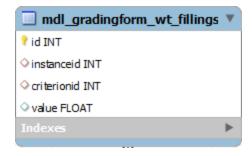
- mdl_gradingform_wt_crits - отвечает за хранение критериев wt. Практически дублирует mdl_poasassignment_criterions, однако не зависит от poasassignment. Имеет внешний ключ fk definitionid - 1:n с таблицей

mdl_grading_definitions (подобной AGM rubrics и checklist). Остальные поля:

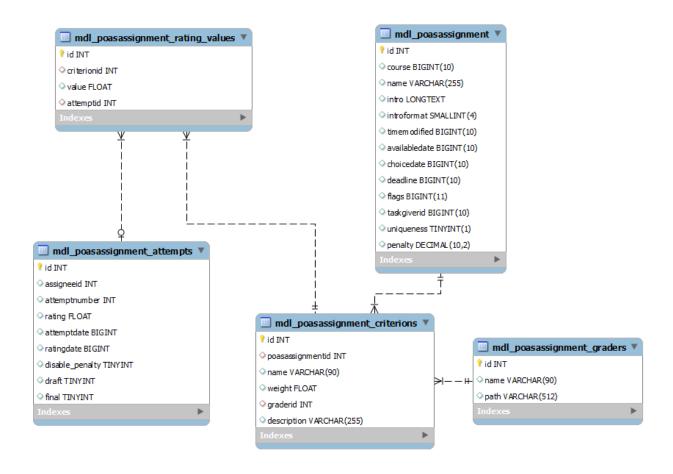
- name название критерия;
- weight вес критерия;
- graderid ссылка на grader
- description описание критерия



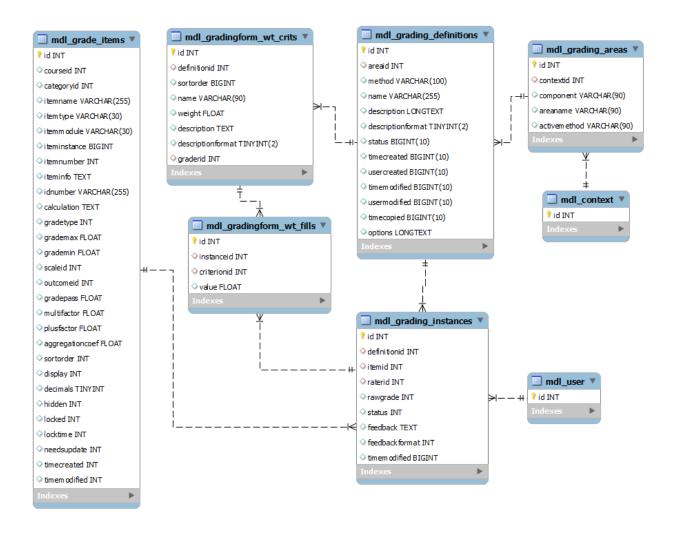
- mdl_gradingform_wt_fillings таблица с оценками. Содержит:
 - instanceid ссылка на id таблицы mdl_grading_instances;
 - criterionid ссылка на id таблицы mdl_gradingform_wt_criterions;
 - value значение оценки по критерию criterionid.



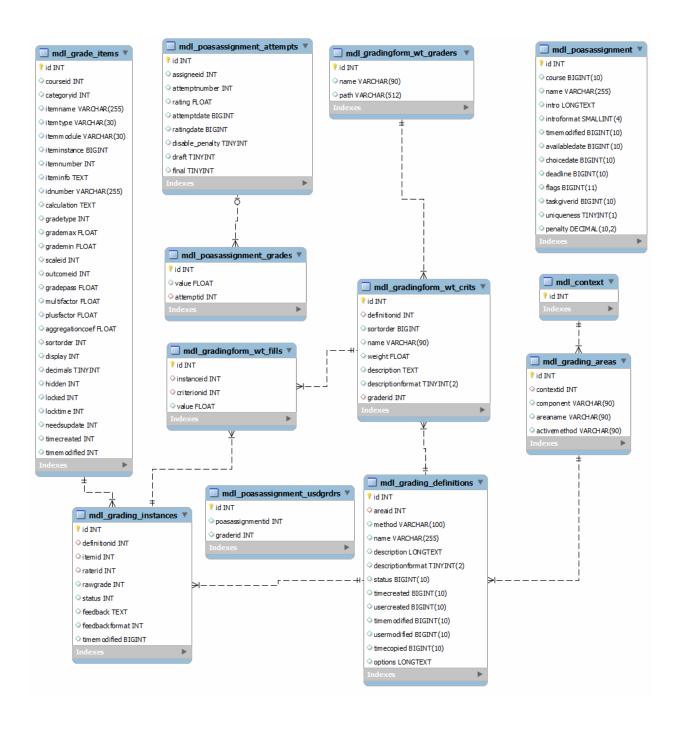
Общая диаграмма - Таблицы Poasassignment, относящиеся к оцениванию (Прежний вариант)



Таблицы метода оценивания Weighted Total (Предлагаемый вариант)

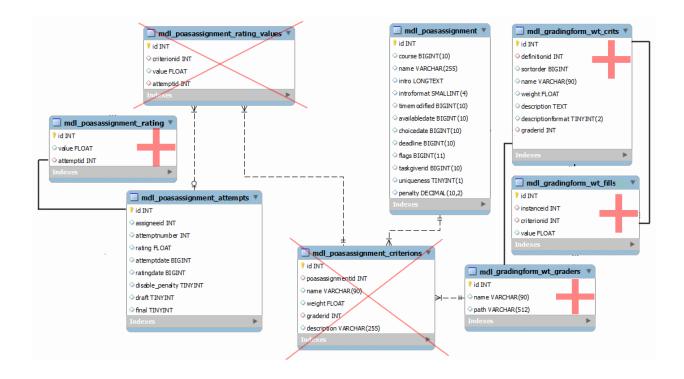


Общая диаграмма - Таблицы Poasassignment + Weighted Total AGM (Предлагаемый вариант)



Изменения стандартной структуры таблиц метода оценивания РА

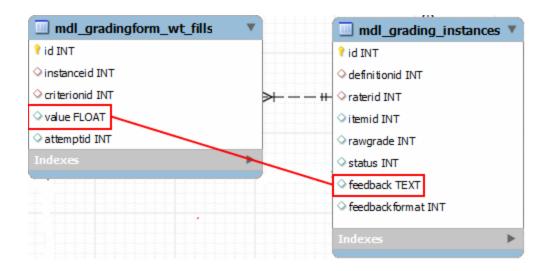
Общая схема



Дополнительная информация об изменениях

Таблицы Poasassignment

- Poasassignment использует moodle-класс comment для сохранения отзыва к оценке. В новой версии отзыв хранится в таблице рядом с оценкой.



mdl poasassignment rating values Таблица переименована mdl poasassignment grades. Из неё исключена многокритериальность - она оставлена на откуп AGM (например, проектируемому Weighted Total и его таблице mdl gradingform wt fillings - где будут храниться критерии и оценки). В таблице mdl poasassignment grades осталась лишь простая оценка (value), на случай, если пользователь отменил в настройках PA не использовать AGM. id (ссылка таблицу попытки на mdl poasassignment attempts).

INSTALL.XML Weighted Total

```
<?xml version="1.0" encoding="UTF-8" ?>

<XMLDB PATH="grade/grading/form/weighted_total/db" VERSION="20131113" COMMENT="XMLDB file
for Weighted Total Advanced Grading Method"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:noNamespaceSchemaLocation="../../../../lib/xmldb/xmldb.xsd"

>

<TABLES>

<TABLE NAME="gradingform_wt_crits" COMMENT="" NEXT="gradingform_wt_fills">

<FIELDS>

<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"

NEXT="definitionid"/>

<FIELD NAME="definitionid" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"

SEQUENCE="false" COMMENT="" PREVIOUS="id" NEXT="sortorder"/>
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```
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SEQUENCE="false" COMMENT="" PREVIOUS="definitionid" NEXT="name"/>
<FIELD NAME="name" TYPE="char" LENGTH="127" NOTNULL="false" SEQUENCE="false"
PREVIOUS="sortorder" NEXT="weight"/>
             <FIELD NAME="weight" TYPE="number" LENGTH="10" NOTNULL="false"</pre>
UNSIGNED="true" SEQUENCE="false" DECIMALS="2" PREVIOUS="name" NEXT="description"/>
             <FIELD NAME="description" TYPE="text" LENGTH="big" NOTNULL="false"</pre>
SEQUENCE="false" COMMENT="" PREVIOUS="weight" NEXT="descriptionformat"/>
<FIELD NAME="descriptionformat" TYPE="int" LENGTH="2" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" COMMENT="" PREVIOUS="description" NEXT="graderid"/>
<FIELD NAME="graderid" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
SEQUENCE="false" COMMENT="" PREVIOUS="descriptionformat" NEXT="poasassignmentid" />
<FIELD NAME="poasassignmentid" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
SEQUENCE="false" COMMENT="" PREVIOUS="graderid" />
</FIELDS>
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REFTABLE="grading definitions" REFFIELDS="id" PREVIOUS="primary" NEXT="fk graderid"/>
<KEY NAME="fk graderid" TYPE="foreign" FIELDS="graderid"</pre>
REFTABLE="poasassignment graders" REFFIELDS="id" PREVIOUS="fk definitionid"
NEXT="poasassignmentid"/>
<KEY NAME="fk poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"</pre>
REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="fk graderid" />
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NEXT="gradingform_wt_graders">
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NEXT="instanceid"/>
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COMMENT="" PREVIOUS="id" NEXT="criterionid"/>
<FIELD NAME="criterionid" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
SEQUENCE="false" COMMENT="" PREVIOUS="instanceid" NEXT="score"/>
<FIELD NAME="score" TYPE="number" LENGTH="10" NOTNULL="true" SEQUENCE="false"
DECIMALS="5" COMMENT="" PREVIOUS="criterionid"/>
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REFFIELDS="id" PREVIOUS="primary" NEXT="fk criterionid"/>
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<FIELD NAME="name" TYPE="char" LENGTH="255" NOTNULL="false" SEQUENCE="false"
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PREVIOUS="name"/>
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INSTALL.XML Poasassignment

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<?xml version="1.0" encoding="UTF-8" ?>
<XMLDB PATH="mod/poasassignment/db" VERSION="20120210" COMMENT="XMLDB file for Moodle</pre>
mod/poasassignment"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="../../lib/xmldb/xmldb.xsd"
<TABLES>
<TABLE NAME="poasassignment" COMMENT="Defines poasassignments"
NEXT="poasassignment answers">
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<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"</pre>
NEXT="course"/>
<FIELD NAME="course" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" DEFAULT="0"</pre>
SEQUENCE="false" COMMENT="Course poasassignment activity belongs to" PREVIOUS="id"
NEXT="name"/>
<FIELD NAME="name" TYPE="char" LENGTH="255" NOTNULL="true" SEQUENCE="false" COMMENT="name</pre>
field for moodle instances" PREVIOUS="course" NEXT="intro"/>
<FIELD NAME="intro" TYPE="text" LENGTH="medium" NOTNULL="false" SEQUENCE="false"</pre>
COMMENT="General introduction of the poasassignment activity" PREVIOUS="name"
NEXT="introformat"/>
<FIELD NAME="introformat" TYPE="int" LENGTH="4" NOTNULL="true" UNSIGNED="true"</pre>
DEFAULT="0" SEQUENCE="false" COMMENT="Format of the intro field (MOODLE, HTML,
MARKDOWN...)" PREVIOUS="intro" NEXT="timemodified"/>
<FIELD NAME="timemodified" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"</pre>
DEFAULT="0" SEQUENCE="false" PREVIOUS="introformat" NEXT="availabledate"/>
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DEFAULT="0" SEQUENCE="false" PREVIOUS="timemodified" NEXT="choicedate"/>
<FIELD NAME="choicedate" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"</pre>
DEFAULT="0" SEOUENCE="false" PREVIOUS="availabledate" NEXT="deadline"/>
<FIELD NAME="deadline" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" DEFAULT="0"</pre>
SEQUENCE="false" PREVIOUS="choicedate" NEXT="flags"/>
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<FIELD NAME="flags" TYPE="int" LENGTH="11" NOTNULL="true" UNSIGNED="true" DEFAULT="0"</pre>
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DEFAULT="0" SEQUENCE="false" PREVIOUS="flags" NEXT="uniqueness"/>
<FIELD NAME="uniqueness" TYPE="int" LENGTH="1" NOTNULL="true" UNSIGNED="true" DEFAULT="0"</pre>
SEQUENCE="false" PREVIOUS="taskgiverid" NEXT="penalty"/>
<FIELD NAME="penalty" TYPE="number" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
DEFAULT="0.05" SEQUENCE="false" DECIMALS="2" PREVIOUS="uniqueness"/>
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REFTABLE="poasassignment_taskgivers" REFFIELDS="id" PREVIOUS="primary"/>
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PREVIOUS="id" NEXT="path"/>
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PREVIOUS="poasassignment_answers" NEXT="poasassignment_fields">
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NEXT="value"/>
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PREVIOUS="id" NEXT="name"/>
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PREVIOUS="value" NEXT="answerid"/>
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SEQUENCE="false" PREVIOUS="name" NEXT="poasassignmentid"/>
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REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="answerid"/>
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PREVIOUS="poasassignment_ans_stngs" NEXT="poasassignment_tasks">
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SEQUENCE="false" PREVIOUS="poasassignmentid" NEXT="name"/>
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PREVIOUS="ftype" NEXT="showintable"/>
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SEQUENCE="false" PREVIOUS="name" NEXT="valuemax"/>
<FIELD NAME="valuemax" TYPE="number" LENGTH="10" NOTNULL="false" UNSIGNED="false"</pre>
SEQUENCE="false" DECIMALS="2" PREVIOUS="showintable" NEXT="valuemin"/>
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SEQUENCE="false" DECIMALS="2" PREVIOUS="valuemax" NEXT="secretfield"/>
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SEQUENCE="false" PREVIOUS="valuemin" NEXT="random"/>
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SEQUENCE="false" PREVIOUS="secretfield" NEXT="description"/>
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PREVIOUS="random"/>
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REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="primary"/>
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me" PREVIOUS="poasassignment_fields" NEXT="poasassignment_task_values">
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PREVIOUS="poasassignmentid" NEXT="description"/>
<FIELD NAME="description" TYPE="text" LENGTH="big" NOTNULL="false" SEQUENCE="false"</pre>
PREVIOUS="name" NEXT="deadline"/>
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SEQUENCE="false" PREVIOUS="id" NEXT="fieldid"/>
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SEQUENCE="false" PREVIOUS="taskid" NEXT="value"/>
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PREVIOUS="fieldid" NEXT="assigneeid"/>
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DEFAULT="0" SEQUENCE="false" PREVIOUS="value"/>
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<KEY NAME="taskid" TYPE="foreign" FIELDS="taskid" REFTABLE="poasassignment_tasks"</pre>
REFFIELDS="id" PREVIOUS="primary" NEXT="fieldid"/>
<KEY NAME="fieldid" TYPE="foreign" FIELDS="fieldid" REFTABLE="poasassignment fileds"</pre>
REFFIELDS="id" PREVIOUS="taskid" NEXT="assigneeid"/>
<KEY NAME="assigneeid" TYPE="foreign" FIELDS="assigneeid"</pre>
REFTABLE="poasassignment_assignee" REFFIELDS="id" PREVIOUS="fieldid"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_assignee" COMMENT="Connects Moodle user with poasassignment
task and attempts" PREVIOUS="poasassignment criterions"
NEXT="poasassignment_submissions">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"</pre>
NEXT="userid"/>
<FIELD NAME="userid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="id" NEXT="timetaken"/>
<FIELD NAME="timetaken" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="userid" NEXT="poasassignmentid"/>
<FIELD NAME="poasassignmentid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="timetaken" NEXT="taskid"/>
<FIELD NAME="taskid" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="poasassignmentid" NEXT="finalized"/>
```

```
<FIELD NAME="finalized" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="taskid" NEXT="cancelled"/>
<FIELD NAME="cancelled" TYPE="int" LENGTH="1" NOTNULL="true" UNSIGNED="true" DEFAULT="0"</pre>
SEQUENCE="false" COMMENT="1 if task is cancelled or 0" PREVIOUS="finalized"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="taskid"/>
<KEY NAME="taskid" TYPE="foreign" FIELDS="taskid" REFTABLE="poasassignment_tasks"</pre>
REFFIELDS="id" PREVIOUS="primary" NEXT="poasassignmentid"/>
<KEY NAME="poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"</pre>
REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="taskid"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_submissions" COMMENT="Saves submission data"
PREVIOUS="poasassignment_assignee" NEXT="poasassignment_rating_values">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"</pre>
NEXT="answerid"/>
<FIELD NAME="answerid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="id" NEXT="value"/>
<FIELD NAME="value" TYPE="text" LENGTH="big" NOTNULL="false" SEQUENCE="false"</pre>
PREVIOUS="answerid" NEXT="attemptid"/>
<FIELD NAME="attemptid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="value"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="attemptid"/>
<KEY NAME="attemptid" TYPE="foreign" FIELDS="attemptid"</pre>
REFTABLE="poasassignment attempts" REFFIELDS="id" PREVIOUS="primary" NEXT="answerid"/>
<KEY NAME="answerid" TYPE="foreign" FIELDS="answerid" REFTABLE="poasassignment_answers"</pre>
REFFIELDS="id" PREVIOUS="attemptid"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment variants" COMMENT="Default comment for the table, please edit
me" PREVIOUS="poasassignment_rating_values" NEXT="poasassignment_attempts">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"</pre>
NEXT="fieldid"/>
<FIELD NAME="fieldid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEOUENCE="false" PREVIOUS="id" NEXT="sortorder"/>
<FIELD NAME="sortorder" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="fieldid" NEXT="value"/>
<FIELD NAME="value" TYPE="char" LENGTH="255" NOTNULL="false" SEQUENCE="false"</pre>
PREVIOUS="sortorder"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="fieldid"/>
<KEY NAME="fieldid" TYPE="foreign" FIELDS="fieldid" REFTABLE="poasassignment_fileds"</pre>
```

```
REFFIELDS="id" PREVIOUS="primary"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_attempts" COMMENT="Default comment for the table, please edit
me" PREVIOUS="poasassignment_variants" NEXT="poasassignment_taskgivers">
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"</pre>
NEXT="assigneeid"/>
<FIELD NAME="assigneeid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="id" NEXT="attemptnumber"/>
<FIELD NAME="attemptnumber" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="assigneeid" NEXT="rating"/>
<FIELD NAME="rating" TYPE="number" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" DECIMALS="2" PREVIOUS="attemptnumber" NEXT="attemptdate"/>
<FIELD NAME="attemptdate" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="rating" NEXT="ratingdate"/>
<FIELD NAME="ratingdate" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="attemptdate" NEXT="disablepenalty"/>
<FIELD NAME="disablepenalty" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="ratingdate" NEXT="draft"/>
<FIELD NAME="draft" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="disablepenalty" NEXT="final"/>
<FIELD NAME="final" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true" DEFAULT="0"</pre>
SEQUENCE="false" PREVIOUS="draft"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="assigneeid"/>
<KEY NAME="assigneeid" TYPE="foreign" FIELDS="assigneeid"</pre>
REFTABLE="poasassignment_assignee" REFFIELDS="id" PREVIOUS="primary"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_taskgivers" COMMENT="Default comment for the table, please
edit me" PREVIOUS="poasassignment_attempts" NEXT="poasassignment_graders">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"</pre>
NEXT="path"/>
<FIELD NAME="path" TYPE="char" LENGTH="255" NOTNULL="true" SEQUENCE="false" PREVIOUS="id"</pre>
NEXT="name"/>
<FIELD NAME="name" TYPE="char" LENGTH="255" NOTNULL="true" SEQUENCE="false"</pre>
PREVIOUS="path"/>
</FIELDS>
<KEY NAME="primary" TYPE="primary" FIELDS="id"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_used_graders" COMMENT="Connects grader with poasassignment
instances" PREVIOUS="poasassignment graders">
<FIELDS>
```

```
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"</pre>
NEXT="poasassignmentid"/>
<FIELD NAME="poasassignmentid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="id" NEXT="graderid"/>
<FIELD NAME="graderid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"</pre>
SEQUENCE="false" PREVIOUS="poasassignmentid"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="poasassignmentid"/>
<KEY NAME="poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"</pre>
REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="primary" NEXT="graderid"/>
<KEY NAME="graderid" TYPE="foreign" FIELDS="graderid" REFTABLE="poasassignment_graders"</pre>
REFFIELDS="id" PREVIOUS="poasassignmentid"/>
</KEYS>
</TABLE>
</TABLES>
</XMLDB>
```

upgrade.php poasassignment

```
defined('MOODLE_INTERNAL') || die();

/**

* xmldb_poasassignment_upgrade

*

* @param int $oldversion

* @return bool

*/

function xmldb_poasassignment_upgrade($oldversion=0) {

global $CFG, $THEME, $db, $DB;

$result = true;

if ($result && $oldversion < 2014010100) {

// Adding tables ...

$table = new xmldb_table('poasassignment_rating');

$table->add_field('id', XMLDB_TYPE_INTEGER, '10', null, XMLDB_NOTNULL,

XMLDB_SEQUENCE, null);

$table->add_field('value', XMLDB_TYPE_NUMBER, '10, 2', null, null,
null);

$table->add_field('attemptid', XMLDB_TYPE_INTEGER, '10', null, Null,
null);
```

```
null, null);
$table->add key('primary', XMLDB KEY PRIMARY, array('id'));
$table->add key('fk attemptid', XMLDB KEY FOREIGN, array('attemptid'),
'poasassignment attempts', array('id'));
if (!$dbman->table exists($table)) {
      $dbman->create table($table);
// ... Here data trasfer...
// Removing tables ...
// $table = new xmldb table('poasassignment rating values');
//if ($dbman->table exists($table)) {
// $dbman->drop table($table);
//}
// $table = new xmldb table('poasassignment criterions');
//if ($dbman->table exists($table)) {
// $dbman->drop table($table);
//}
// $table = new xmldb table('poasassignment graders');
//if ($dbman->table exists($table)) {
// $dbman->drop table($table);
//}
upgrade mod savepoint(true, 2014010100, 'poasassignment');
return $result;
```