

Лабораторная работа №1

Дисциплина: «Технологии организации сетевых приложений»

Тема: «Data Definition Language (DDL)»

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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.

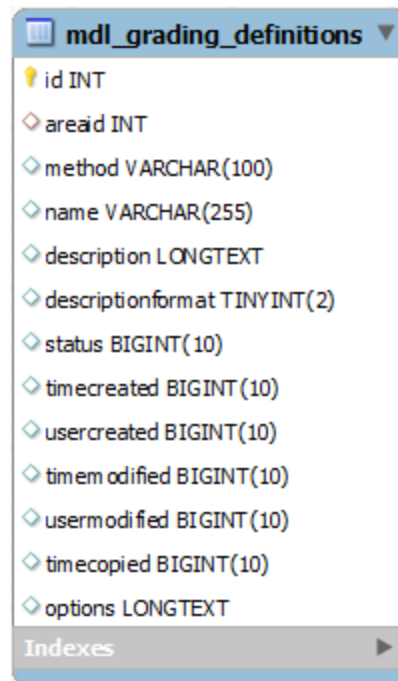
Задание на лабораторную работу

- 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.

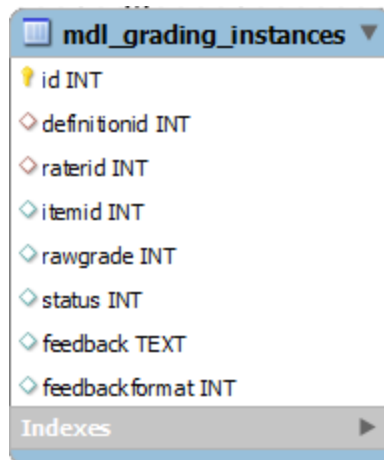
Описание таблиц

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 активности, например course или mod;
 - itemmodule - название модуля, в котором происходит оценка, например assign;

mdl_grade_items	
id	INT
courseid	INT
categoryid	INT
itemname	VARCHAR(255)
itemtype	VARCHAR(30)
itemmodule	VARCHAR(30)
iteminstance	BIGINT
itemnumber	INT
iteminfo	TEXT
idnumber	VARCHAR(255)
calculation	TEXT
gradetype	INT
grademax	FLOAT
grademin	FLOAT
scaleid	INT
outcomeid	INT
gradepass	FLOAT
multifactor	FLOAT
plusfactor	FLOAT
aggregationcoef	FLOAT
sortorder	INT
display	INT
decimals	TINYINT
hidden	INT
locked	INT
locktime	INT
needsupdate	INT
timecreated	INT
timemodified	INT
Indexes	

- 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.

mdl_grading_areas	
id	INT
contextid	INT
component	VARCHAR(90)
areaname	VARCHAR(90)
activemethod	VARCHAR(90)
Indexes	

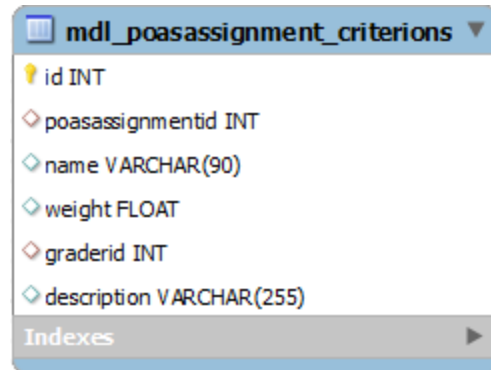
Модуль Poasassignment (прежнее состояние)

- 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.).

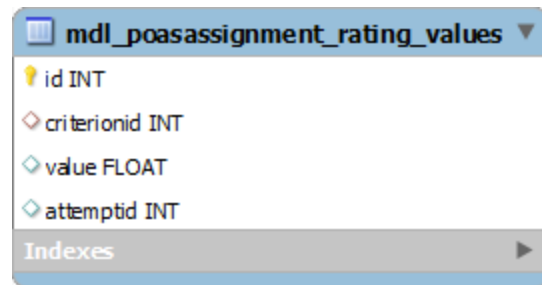
mdl_poasassignment	
id	INT
course	BIGINT(10)
name	VARCHAR(255)
intro	LONGTEXT
introformat	SMALLINT(4)
timemodified	BIGINT(10)
availabledate	BIGINT(10)
choicedate	BIGINT(10)
deadline	BIGINT(10)
flags	BIGINT(11)
taskgiverid	BIGINT(10)
uniqueness	TINYINT(1)
penalty	DECIMAL(10,2)
Indexes	

- mdl_poasassignment_criteria - отвечает за хранение критериев

poasassignment и их веса.

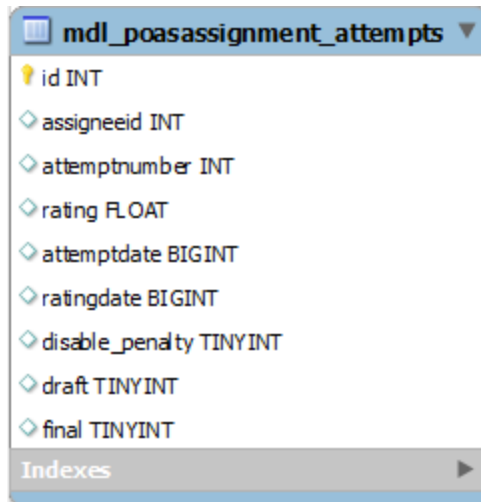


- `mdl_poasassignment_rating_values` - таблица, хранящая номер критерия, значение оценки и номер попытки.

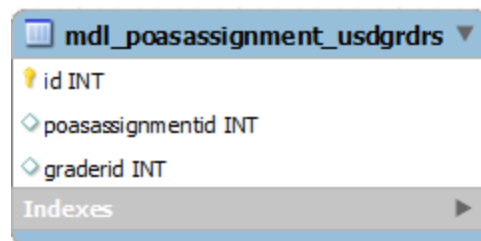


- `mdl_poasassignment_attempts` - хранит:

- `assigneeid` - id студента;
- `attemptnumber` - номер попытки;
- `rating` - общий рейтинг (исходя из 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.



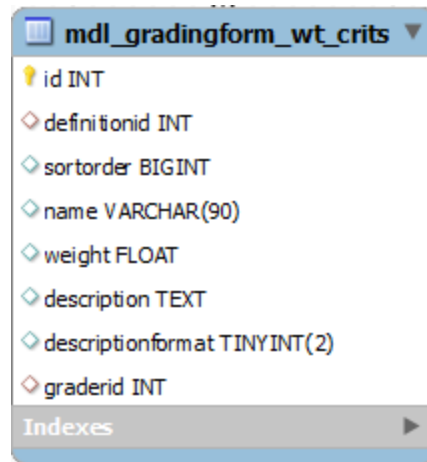
Модуль Weighted Total (проектируемый)

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_criteria, однако не зависит от poasassignment. Имеет внешний ключ fk_definitionid - 1:n с таблицей

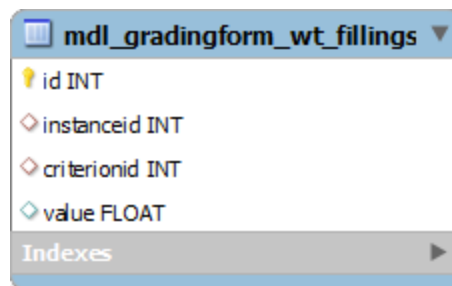
mdl_grading_definitions (подобной AGM rubrics и checklist). Остальные поля:

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

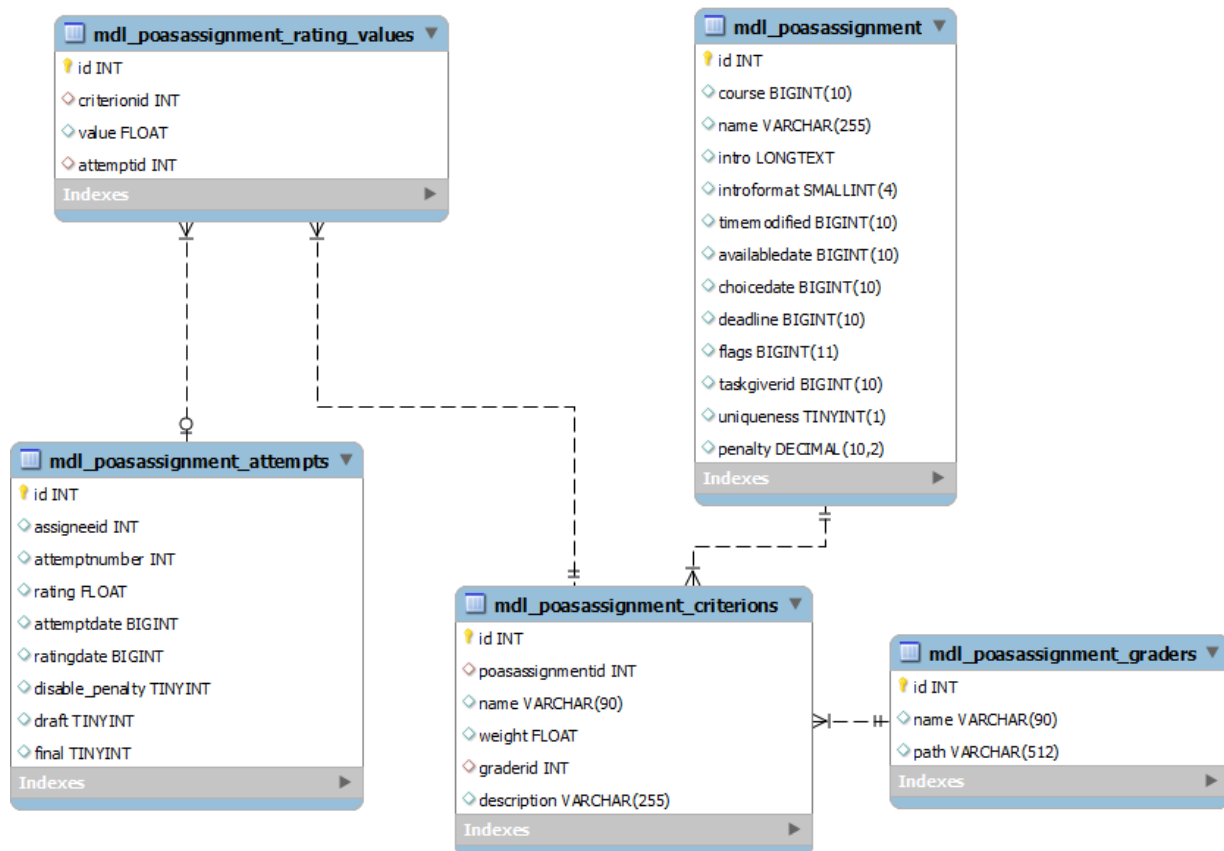


- mdl_gradingform_wt_fillings - таблица с оценками. Содержит:

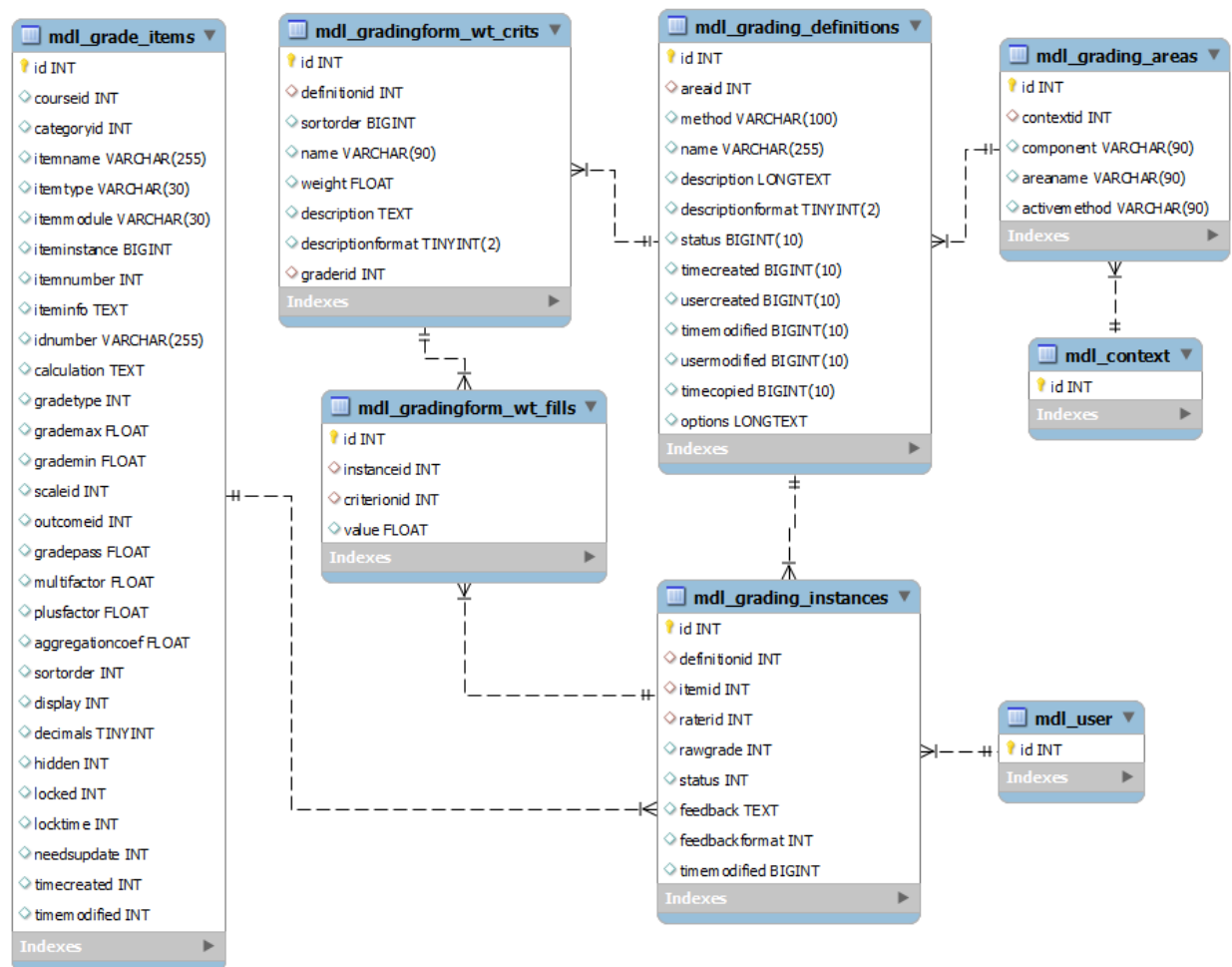
- instanceid - ссылка на id таблицы mdl_grading_instances;
- criterionid - ссылка на id таблицы mdl_gradingform_wt_criteria;
- value - значение оценки по критерию criterionid.



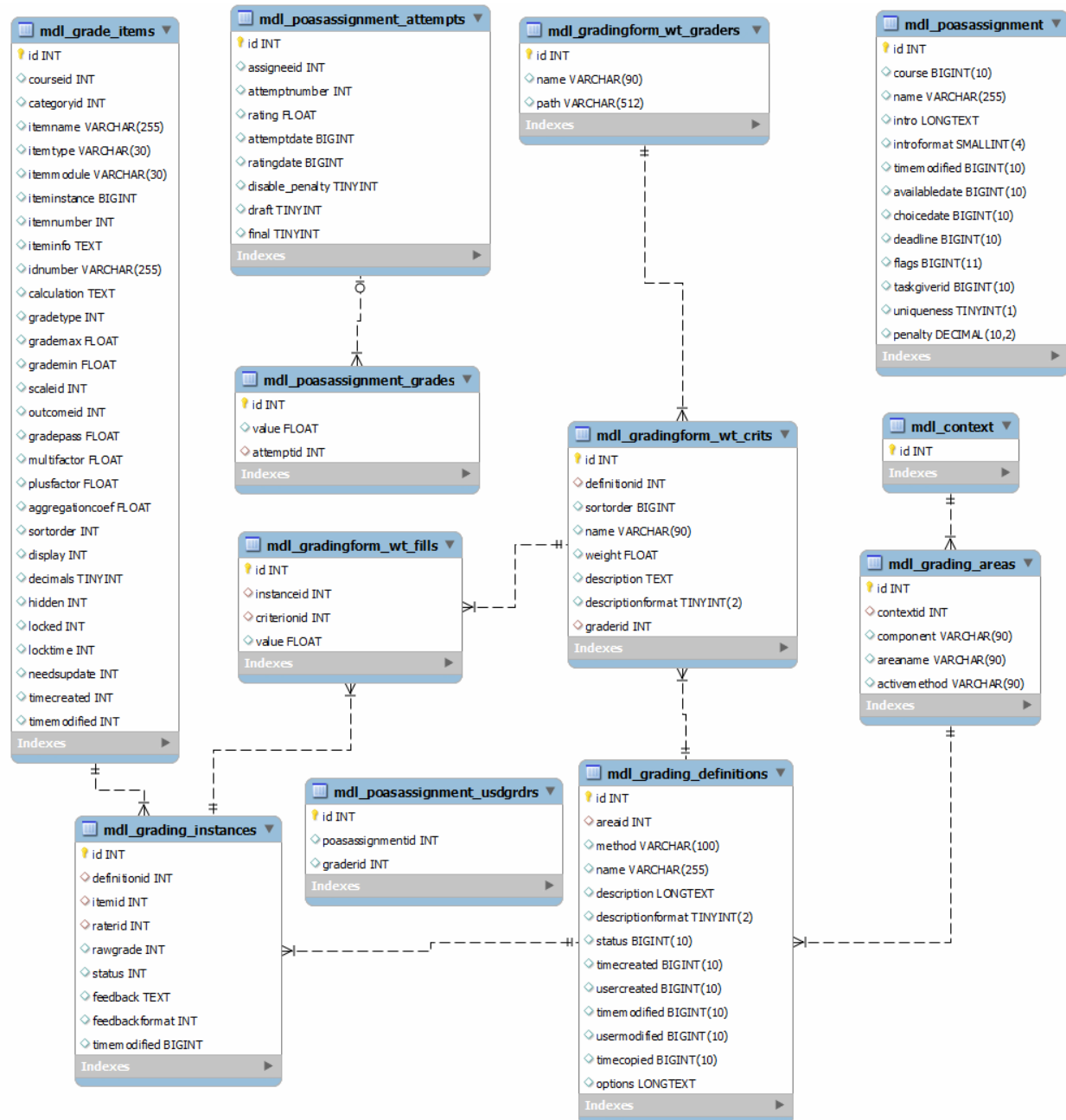
Общая диаграмма - Таблицы Poasassignment, относящиеся к оцениванию (Прежний вариант)



Таблицы метода оценивания Weighted Total (Предлагаемый вариант)

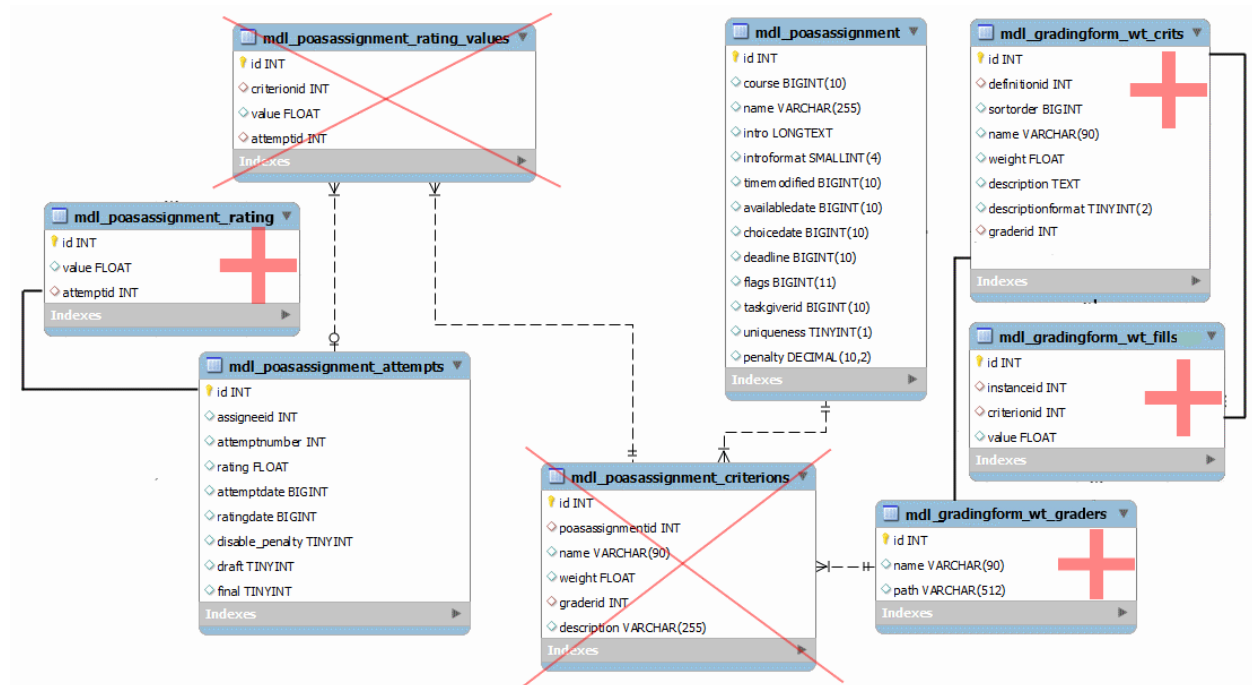


Общая диаграмма - Таблицы Poasassignment + Weighted Total AGM
(Предлагаемый вариант)



Изменения стандартной структуры таблиц метода оценивания РА

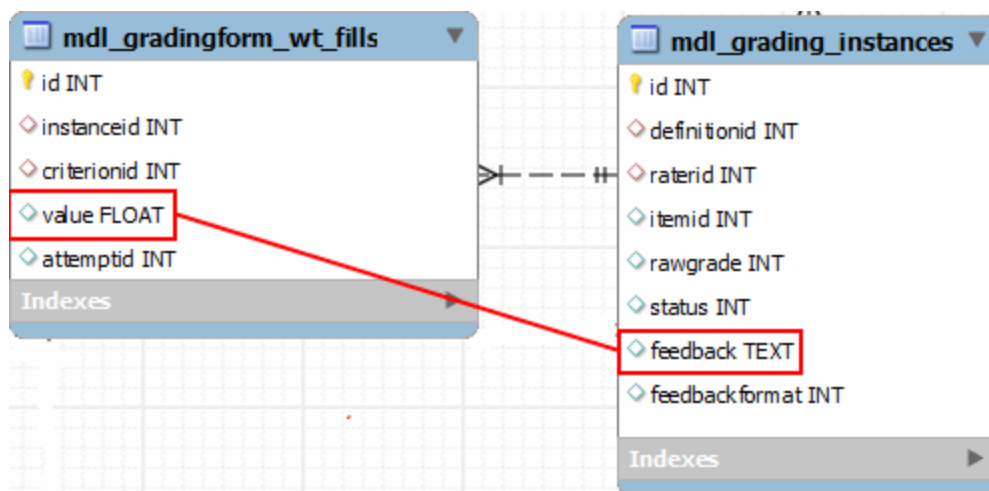
Общая схема



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.



- Таблица `mdl_poasassignment_rating_values` переименована в `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 РА не использовать AGM, и `id` попытки (ссылка на таблицу `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"/>
```

```

<FIELD NAME="sortorder" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
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"
UNSIGNED="true" SEQUENCE="false" DECIMALS="2" PREVIOUS="name" NEXT="description"/>
    <FIELD NAME="description" TYPE="text" LENGTH="big" NOTNULL="false"
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>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="fk_definitionid"/>
<KEY NAME="fk_definitionid" TYPE="foreign" FIELDS="definitionid"
REFTABLE="grading_definitions" REFFIELDS="id" PREVIOUS="primary" NEXT="fk_graderid"/>
<KEY NAME="fk_graderid" TYPE="foreign" FIELDS="graderid"
REFTABLE="poasassignment_graders" REFFIELDS="id" PREVIOUS="fk_definitionid"
NEXT="poasassignmentid"/>
<KEY NAME="fk_poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"
REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="fk_graderid" />
</KEYS>
</TABLE>
<TABLE NAME="gradingform_wt_fills" COMMENT="" PREVIOUS="gradingform_wt_crits"
NEXT="gradingform_wt_graders">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="instanceid"/>
<FIELD NAME="instanceid" TYPE="int" LENGTH="10" NOTNULL="false" SEQUENCE="false"
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"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="fk_instanceid"/>
<KEY NAME="fk_instanceid" TYPE="foreign" FIELDS="instanceid" REFTABLE="grading_instances"
REFFIELDS="id" PREVIOUS="primary" NEXT="fk_criterionid"/>
<KEY NAME="fk_criterionid" TYPE="foreign" FIELDS="criterionid"
REFTABLE="gradingform_wt_crits" REFFIELDS="id" PREVIOUS="fk_instanceid"/>
</KEYS>
</TABLE>
<TABLE NAME="gradingform_wt_graders" COMMENT="" PREVIOUS="gradingform_wt_fills">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="name"/>

```

```

<FIELD NAME="name" TYPE="char" LENGTH="255" NOTNULL="false" SEQUENCE="false"
PREVIOUS="id" NEXT="path"/>
<FIELD NAME="path" TYPE="char" LENGTH="255" NOTNULL="false" SEQUENCE="false"
PREVIOUS="name"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id"/>
</KEYS>
</TABLE>
</TABLES>
</XMLDB>

```

INSTALL.XML Poasassignment

```

<?xml version="1.0" encoding="UTF-8" ?>
<XMLDB PATH="mod/poasassignment/db" VERSION="20120210" COMMENT="XMLDB file for Moodle
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">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="course"/>
<FIELD NAME="course" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" DEFAULT="0"
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
field for moodle instances" PREVIOUS="course" NEXT="intro"/>
<FIELD NAME="intro" TYPE="text" LENGTH="medium" NOTNULL="false" SEQUENCE="false"
COMMENT="General introduction of the poasassignment activity" PREVIOUS="name"
NEXT="introformat"/>
<FIELD NAME="introformat" TYPE="int" LENGTH="4" NOTNULL="true" UNSIGNED="true"
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"
DEFAULT="0" SEQUENCE="false" PREVIOUS="introformat" NEXT="availabledate"/>
<FIELD NAME="availabledate" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
DEFAULT="0" SEQUENCE="false" PREVIOUS="timemodified" NEXT="choicedate"/>
<FIELD NAME="choicedate" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
DEFAULT="0" SEQUENCE="false" PREVIOUS="availabledate" NEXT="deadline"/>
<FIELD NAME="deadline" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" DEFAULT="0"
SEQUENCE="false" PREVIOUS="choicedate" NEXT="flags"/>

```

```

<FIELD NAME="flags" TYPE="int" LENGTH="11" NOTNULL="true" UNSIGNED="true" DEFAULT="0"
SEQUENCE="false" PREVIOUS="deadline" NEXT="taskgiverid"/>
<FIELD NAME="taskgiverid" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
DEFAULT="0" SEQUENCE="false" PREVIOUS="flags" NEXT="uniqueness"/>
<FIELD NAME="uniqueness" TYPE="int" LENGTH="1" NOTNULL="true" UNSIGNED="true" DEFAULT="0"
SEQUENCE="false" PREVIOUS="taskgiverid" NEXT="penalty"/>
<FIELD NAME="penalty" TYPE="number" LENGTH="10" NOTNULL="false" UNSIGNED="true"
DEFAULT="0.05" SEQUENCE="false" DECIMALS="2" PREVIOUS="uniqueness"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="taskgiverid"/>
<KEY NAME="taskgiverid" TYPE="foreign" FIELDS="taskgiverid"
REFTABLE="poasassignment_taskgivers" REFFIELDS="id" PREVIOUS="primary"/>
</KEYS>
<INDEXES>
<INDEX NAME="course" UNIQUE="false" FIELDS="course"/>
</INDEXES>
</TABLE>
<TABLE NAME="poasassignment_answers" COMMENT="Default comment for the table, please edit
me" PREVIOUS="poasassignment" NEXT="poasassignment_ans_stngs">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="name"/>
<FIELD NAME="name" TYPE="char" LENGTH="255" NOTNULL="false" SEQUENCE="false"
PREVIOUS="id" NEXT="path"/>
<FIELD NAME="path" TYPE="char" LENGTH="255" NOTNULL="false" SEQUENCE="false"
PREVIOUS="name"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_ans_stngs" COMMENT="Settings for answer plugins"
PREVIOUS="poasassignment_answers" NEXT="poasassignment_fields">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="value"/>
<FIELD NAME="value" TYPE="text" LENGTH="big" NOTNULL="false" SEQUENCE="false"
PREVIOUS="id" NEXT="name"/>
<FIELD NAME="name" TYPE="char" LENGTH="45" NOTNULL="false" SEQUENCE="false"
PREVIOUS="value" NEXT="answerid"/>
<FIELD NAME="answerid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="name" NEXT="poasassignmentid"/>
<FIELD NAME="poasassignmentid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="answerid"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="answerid"/>

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<KEY NAME="answerid" TYPE="foreign" FIELDS="answerid" REFTABLE="poasassignment_answers"
REFFIELDS="id" PREVIOUS="primary" NEXT="poasassignmentid"/>
<KEY NAME="poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"
REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="answerid"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_fields" COMMENT="Filed for poasassignment individual tasks"
PREVIOUS="poasassignment_ans_stngs" NEXT="poasassignment_tasks">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="poasassignmentid"/>
<FIELD NAME="poasassignmentid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="id" NEXT="ftype"/>
<FIELD NAME="ftype" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="false"
SEQUENCE="false" PREVIOUS="poasassignmentid" NEXT="name"/>
<FIELD NAME="name" TYPE="char" LENGTH="45" NOTNULL="false" SEQUENCE="false"
PREVIOUS="ftype" NEXT="showintable"/>
<FIELD NAME="showintable" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="name" NEXT="valuemax"/>
<FIELD NAME="valuemax" TYPE="number" LENGTH="10" NOTNULL="false" UNSIGNED="false"
SEQUENCE="false" DECIMALS="2" PREVIOUS="showintable" NEXT="valuemin"/>
<FIELD NAME="valuemin" TYPE="number" LENGTH="10" NOTNULL="false" UNSIGNED="false"
SEQUENCE="false" DECIMALS="2" PREVIOUS="valuemax" NEXT="secretfield"/>
<FIELD NAME="secretfield" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="valuemin" NEXT="random"/>
<FIELD NAME="random" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="secretfield" NEXT="description"/>
<FIELD NAME="description" TYPE="text" LENGTH="big" NOTNULL="false" SEQUENCE="false"
PREVIOUS="random"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="poasassignmentid"/>
<KEY NAME="poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"
REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="primary"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_tasks" COMMENT="Default comment for the table, please edit
me" PREVIOUS="poasassignment_fields" NEXT="poasassignment_task_values">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="poasassignmentid"/>
<FIELD NAME="poasassignmentid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="id" NEXT="name"/>
<FIELD NAME="name" TYPE="char" LENGTH="255" NOTNULL="false" SEQUENCE="false"
PREVIOUS="poasassignmentid" NEXT="description"/>
<FIELD NAME="description" TYPE="text" LENGTH="big" NOTNULL="false" SEQUENCE="false"
PREVIOUS="name" NEXT="deadline"/>
<FIELD NAME="deadline" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"

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```

SEQUENCE="false" PREVIOUS="description" NEXT="hidden"/>
<FIELD NAME="hidden" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="deadline"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="poasassignmentid"/>
<KEY NAME="poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"
REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="primary"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_task_values" COMMENT="Values of poasassignment fields"
PREVIOUS="poasassignment_tasks" NEXT="poasassignment_criteria">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="taskid"/>
<FIELD NAME="taskid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="id" NEXT="fieldid"/>
<FIELD NAME="fieldid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="taskid" NEXT="value"/>
<FIELD NAME="value" TYPE="text" LENGTH="big" NOTNULL="false" SEQUENCE="false"
PREVIOUS="fieldid" NEXT="assigneeid"/>
<FIELD NAME="assigneeid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
DEFAULT="0" SEQUENCE="false" PREVIOUS="value"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="taskid"/>
<KEY NAME="taskid" TYPE="foreign" FIELDS="taskid" REFTABLE="poasassignment_tasks"
REFFIELDS="id" PREVIOUS="primary" NEXT="fieldid"/>
<KEY NAME="fieldid" TYPE="foreign" FIELDS="fieldid" REFTABLE="poasassignment_files"
REFFIELDS="id" PREVIOUS="taskid" NEXT="assigneeid"/>
<KEY NAME="assigneeid" TYPE="foreign" FIELDS="assigneeid"
REFTABLE="poasassignment_assignee" REFFIELDS="id" PREVIOUS="fieldid"/>
</KEYS>
</TABLE>
<TABLE NAME="poasassignment_assignee" COMMENT="Connects Moodle user with poasassignment
task and attempts" PREVIOUS="poasassignment_criteria"
NEXT="poasassignment_submissions">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true"
NEXT="userid"/>
<FIELD NAME="userid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="id" NEXT="timetaken"/>
<FIELD NAME="timetaken" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="userid" NEXT="poasassignmentid"/>
<FIELD NAME="poasassignmentid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="timetaken" NEXT="taskid"/>
<FIELD NAME="taskid" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="poasassignmentid" NEXT="finalized"/>

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<FIELD NAME="finalized" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="taskid" NEXT="cancelled"/>
<FIELD NAME="cancelled" TYPE="int" LENGTH="1" NOTNULL="true" UNSIGNED="true" DEFAULT="0"
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"
REFFIELDS="id" PREVIOUS="primary" NEXT="poasassignmentid"/>
<KEY NAME="poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"
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"
NEXT="answerid"/>
<FIELD NAME="answerid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="id" NEXT="value"/>
<FIELD NAME="value" TYPE="text" LENGTH="big" NOTNULL="false" SEQUENCE="false"
PREVIOUS="answerid" NEXT="attemptid"/>
<FIELD NAME="attemptid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="value"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="attemptid"/>
<KEY NAME="attemptid" TYPE="foreign" FIELDS="attemptid"
REFTABLE="poasassignment_attempts" REFFIELDS="id" PREVIOUS="primary" NEXT="answerid"/>
<KEY NAME="answerid" TYPE="foreign" FIELDS="answerid" REFTABLE="poasassignment_answers"
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"
NEXT="fieldid"/>
<FIELD NAME="fieldid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="id" NEXT="sortorder"/>
<FIELD NAME="sortorder" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="fieldid" NEXT="value"/>
<FIELD NAME="value" TYPE="char" LENGTH="255" NOTNULL="false" SEQUENCE="false"
PREVIOUS="sortorder"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="fieldid"/>
<KEY NAME="fieldid" TYPE="foreign" FIELDS="fieldid" REFTABLE="poasassignment_files">

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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">
<FIELDS>
<FIELD NAME="id" TYPE="int" LENGTH="10" NOTNULL="true" UNSIGNED="true" SEQUENCE="true" NEXT="assigneeid"/>
<FIELD NAME="assigneeid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true" SEQUENCE="false" PREVIOUS="id" NEXT="attemptnumber"/>
<FIELD NAME="attemptnumber" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true" SEQUENCE="false" PREVIOUS="assigneeid" NEXT="rating"/>
<FIELD NAME="rating" TYPE="number" LENGTH="10" NOTNULL="false" UNSIGNED="true" SEQUENCE="false" DECIMALS="2" PREVIOUS="attemptnumber" NEXT="attemptdate"/>
<FIELD NAME="attemptdate" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true" SEQUENCE="false" PREVIOUS="rating" NEXT="ratingdate"/>
<FIELD NAME="ratingdate" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true" SEQUENCE="false" PREVIOUS="attemptdate" NEXT="disablepenalty"/>
<FIELD NAME="disablepenalty" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true" SEQUENCE="false" PREVIOUS="ratingdate" NEXT="draft"/>
<FIELD NAME="draft" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true" SEQUENCE="false" PREVIOUS="disablepenalty" NEXT="final"/>
<FIELD NAME="final" TYPE="int" LENGTH="1" NOTNULL="false" UNSIGNED="true" DEFAULT="0" SEQUENCE="false" PREVIOUS="draft"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="assigneeid"/>
<KEY NAME="assigneeid" TYPE="foreign" FIELDS="assigneeid" 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" NEXT="path"/>
<FIELD NAME="path" TYPE="char" LENGTH="255" NOTNULL="true" SEQUENCE="false" PREVIOUS="id" NEXT="name"/>
<FIELD NAME="name" TYPE="char" LENGTH="255" NOTNULL="true" SEQUENCE="false" PREVIOUS="path"/>
</FIELDS>
<KEYS>
<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"
NEXT="poasassignmentid"/>
<FIELD NAME="poasassignmentid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="id" NEXT="graderid"/>
<FIELD NAME="graderid" TYPE="int" LENGTH="10" NOTNULL="false" UNSIGNED="true"
SEQUENCE="false" PREVIOUS="poasassignmentid"/>
</FIELDS>
<KEYS>
<KEY NAME="primary" TYPE="primary" FIELDS="id" NEXT="poasassignmentid"/>
<KEY NAME="poasassignmentid" TYPE="foreign" FIELDS="poasassignmentid"
REFTABLE="poasassignment" REFFIELDS="id" PREVIOUS="primary" NEXT="graderid"/>
<KEY NAME="graderid" TYPE="foreign" FIELDS="graderid" REFTABLE="poasassignment_graders"
REFFIELDS="id" PREVIOUS="poasassignmentid"/>
</KEYS>
</TABLE>
</TABLES>
</XMLDB>

```

upgrade.php poasassignment

```

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

/**
 * xmlldb_poasassignment_upgrade
 *
 * @param int $oldversion
 * @return bool
 */
function xmlldb_poasassignment_upgrade($oldversion=0) {

    global $CFG, $THEME, $db, $DB;
    $result = true;

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

        // Adding tables ...
        $table = new xmlldb_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,
null);
        $table->add_field('attemptid', XMLDB_TYPE_INTEGER, '10', null, XMLDB_NOTNULL,

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```

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 transfer...

// Removing tables ...
// $table = new xmlldb_table('poasassignment_rating_values');

//if ($dbman->table_exists($table)) {
// $dbman->drop_table($table);
//}

// $table = new xmlldb_table('poasassignment_criteria');

//if ($dbman->table_exists($table)) {
// $dbman->drop_table($table);
//}

// $table = new xmlldb_table('poasassignment_graders');

//if ($dbman->table_exists($table)) {
// $dbman->drop_table($table);
//}

}
upgrade_mod_savepoint(true, 2014010100, 'poasassignment');
return $result;
}

```