

# Bugs in Moodle Quiz Responses Report

## Bug 1

Quiz Settings :- Question behaviour -> 'Interactive with multiple tries'

Quiz Responses Report Settings :-

'Attempts from' -> 'enrolled users who have **not** attempted the quiz'

'Which tries' -> 'First try' or 'All Tries'

**Gives Error!**

(**Note** : 'Which tries' -> 'Last try' works fine and gives a list of enrolled users who have not attempted the quiz with 'Response' columns having null/('-') values.)

## Solution

There are two ways to deal with this situation.

### First Solution

Disabling the 'Which tries' option (which should be the *ideal case* as there are no attempts present).

### Code Fixes

File : moodle/mod/quiz/report/responses/responses\_form.php

In the protected function `other_attempt_fields(MoodleQuickForm $mform) { ... }`, just add one line of code (the highlighted one given below) in order to disable the 'Which tries' option when 'Attempts from' is set to 'enrolled users who have not attempted the quiz'.

```
protected function other_attempt_fields(MoodleQuickForm $mform) {
    parent::other_attempt_fields($mform);
    if (quiz_allows_multiple_tries($this->_customdata['quiz'])) {
        $mform->addElement('select', 'whichtries', get_string('whichtries', 'question'), array(
            question_attempt::FIRST_TRY => get_string('firsttry', 'question'),
            question_attempt::LAST_TRY => get_string('lasttry', 'question'),
            question_attempt::ALL_TRIES => get_string('alltries', 'question'))
        );
        $mform->setDefault('whichtries', question_attempt::LAST_TRY);
        $mform->disabledIf('whichtries', 'attempts', 'eq', quiz_attempts_report::ENROLLED_WITHOUT);
    }
}
```

## Second Solution (Not required if first solution is applied.)

Handling the actual error.

Coding error detected, it must be fixed by a programmer: PHP catchable fatal error

[More information about this error](#)

**Debug info:** Object of class qubaid\_list could not be converted to string  
Error code: codingerror

**Stack trace:**

- line 426 of /lib/setuplib.php: coding\_exception thrown
- line 529 of /question/engine/datalib.php: call to default\_error\_handler()
- line 66 of /mod/quiz/report/responses/first\_or\_all\_responses\_table.php: call to question\_engine\_data\_mapper->load\_questions\_usages\_by\_activity()
- line 545 of /mod/quiz/report/attemptsreport\_table.php: call to quiz\_first\_or\_all\_responses\_table->load\_extra\_data()
- line 1624 of /lib/tablelib.php: call to quiz\_attempts\_report\_table->query\_db()
- line 217 of /mod/quiz/report/responses/report.php: call to table\_sql->out()
- line 96 of /mod/quiz/report.php: call to quiz\_responses\_report->display()

Continue

### Cause of error

File : moodle/mod/quiz/report/responses/first\_or\_all\_responses\_table.php

In the function,

```
protected function load_extra_data(){
```

```
...
```

```
    $qubaid = $this->get_qubaid_condition();
```

```
...
```

```
}
```

Here, \$qubaid receives null values since there are no quiz attempts.

### Code Fixes

```
protected function load_extra_data() {
```

```
    if (count($this->rawdata) === 0) {
```

```
        return;
```

```
    }
```

```
    $qubaid = $this->get_qubaid_condition();
```

```
    $dm = new question_engine_data_mapper();
```

```

if ($qubaid->usage_id_in() != '0') {
    $this->questionusagesbyactivity = $dm->load_questions_usages_by_activity($qubaid);

    // Insert an extra field in attempt data and extra rows where necessary.
    $newrawdata = array();
    foreach ($this->rawdata as $attempt) {
        $maxtriesinanyslot = 1;
        foreach ($this->questionusagesbyactivity[$attempt->usageid]->get_slots() as $slot) {
            $tries = $this->get_no_of_tries($attempt, $slot);
            $maxtriesinanyslot = max($maxtriesinanyslot, $tries);
        }
        for ($try = 1; $try <= $maxtriesinanyslot; $try++) {
            $newtablerow = clone($attempt);
            $newtablerow->lasttryforallparts = ($try == $maxtriesinanyslot);
            if ($try != $maxtriesinanyslot) {
                $newtablerow->state = quiz_attempt::IN_PROGRESS;
            }
            $newtablerow->try = $try;
            $newrawdata[] = $newtablerow;
            if ($this->options->whichtries == question_attempt::FIRST_TRY) {
                break;
            }
        }
    }
    $this->rawdata = $newrawdata;
} else {
    $newrawdata = array();
    foreach ($this->rawdata as $attempt) {
        $newtablerow = clone($attempt);
        $newtablerow->lasttryforallparts = 0;
        $newtablerow->try = 0;
        $newrawdata[] = $newtablerow;
    }
    $this->rawdata = $newrawdata;
}
}

```

## Bug 2

Quiz Settings :- Question behaviour -> 'Interactive with multiple tries'

Quiz Responses Report Settings :-

'Attempts from' -> 'enrolled users who **have, or have not**, attempted the quiz'

'Which tries' -> 'First try' or 'All Tries'

**Gives Error!**

(Note : 'Which tries' -> 'Last try' works fine and outputs a table showing:

- Enrolled students **who have not** attempted the quiz with 'Response' columns having **null** / ('-') values.
- Enrolled students **who have** attempted the quiz with 'Response' columns containing their **responses** to the corresponding quiz questions.)

## Error

Exception - Call to a member function get\_slots() on null

[More information about this error](#)

### Debug info:

Error code: generalexceptionmessage

### Stack trace:

- line 72 of /mod/quiz/report/responses/first\_or\_all\_responses\_table.php: Error thrown
- line 545 of /mod/quiz/report/attemptsreport\_table.php: call to quiz\_first\_or\_all\_responses\_table->load\_extra\_data()
- line 1624 of /lib/tablelib.php: call to quiz\_attempts\_report\_table->query\_db()
- line 239 of /mod/quiz/report/responses/report.php: call to table\_sql->out()
- line 96 of /mod/quiz/report.php: call to quiz\_responses\_report->display()

Continue

### Cause of error

File : moodle/mod/quiz/report/responses/first\_or\_all\_responses\_table.php

In the function,

```
protected function load_extra_data(){
```

```
...
```

```
foreach ($this->rawdata as $attempt) {
```

```
...
```

```
    foreach ($this->questionusagesbyactivity[$attempt->usageid]->get_slots() as $slot) {
```

```

        ...
    }
    ...
}
...
}

```

Here, **\$this->rawdata** has data containing enrolled students who have as well as have not attempted the quiz. Therefore, for students who **have not** attempted the quiz, **usageid** is **null**. Hence, the error.

## Solution (Code highlighted in cyan colour.)

### Code Fixes

File : moodle/mod/quiz/report/responses/first\_or\_all\_responses\_table.php

(Note: Code highlighted in yellow colour is second solution for the first bug. It is not required if first solution given above is applied.)

```

protected function load_extra_data() {
    if (count($this->rawdata) === 0) {
        return;
    }
    $qubaids = $this->get_qubaids_condition();
    $dm = new question_engine_data_mapper();

    if ($qubaids->usage_id_in() != '0') {
        $this->questionusagesbyactivity = $dm->load_questions_usages_by_activity($qubaids);

        // Insert an extra field in attempt data and extra rows where necessary.
        $newrawdata = array();
        foreach ($this->rawdata as $attempt) {
            if (!empty($attempt->usageid)) {
                $maxtriesinanyslot = 1;
                foreach ($this->questionusagesbyactivity[$attempt->usageid]->get_slots() as $slot) {
                    $tries = $this->get_no_of_tries($attempt, $slot);
                    $maxtriesinanyslot = max($maxtriesinanyslot, $tries);
                }
                for ($try = 1; $try <= $maxtriesinanyslot; $try++) {
                    $newtablerow = clone($attempt);
                    $newtablerow->lasttryforallparts = ($try == $maxtriesinanyslot);
                    if ($try != $maxtriesinanyslot) {
                        $newtablerow->state = quiz_attempt::IN_PROGRESS;
                    }
                    $newtablerow->try = $try;
                }
            }
        }
    }
}

```

```

        $newrawdata[] = $newtablerow;
        if ($this->options->whichtries == question_attempt::FIRST_TRY) {
            break;
        }
    }
} else {
    $newtablerow = clone($attempt);
    $newtablerow->lasttryforallparts = 0;
    $newtablerow->try = 0;
    $newrawdata[] = $newtablerow;
}
}
$this->rawdata = $newrawdata;
} else {
    $newrawdata = array();
    foreach ($this->rawdata as $attempt) {
        $newtablerow = clone($attempt);
        $newtablerow->lasttryforallparts = 0;
        $newtablerow->try = 0;
        $newrawdata[] = $newtablerow;
    }
    $this->rawdata = $newrawdata;
}
}

```

#### Code fixes required in some other functions :

File : moodle/mod/quiz/report/responses/first\_or\_all\_responses\_table.php

(**Note:** The columns Email address, State and Grade present in the output table remain blank for enrolled students who have not attempted the quiz. Hence, following code fixes are necessary.)

```

public function col_email($tablerow) {
    if ($tablerow->try != 1 && $tablerow->try != 0) {
        return "";
    } else {
        return $tablerow->email;
    }
}

```

```

public function col_sumgrades($tablerow) {
    if ($tablerow->lasttryforallparts == 0) {
        return '-';
    } elseif (!$tablerow->lasttryforallparts) {

```

```
        return "";
    } else {
        return parent::col_sumgrades($tablerow);
    }
}
```

```
public function col_state($tablerow) {
    if ($tablerow->lasttryforallparts == 0) {
        return '-';
    } elseif (!$tablerow->lasttryforallparts) {
        return "";
    } else {
        return parent::col_state($tablerow);
    }
}
```

\*\*\*\*\*