

# GradingDatamodel\_0522

Database model documentation

# Table of contents

<b>1. Model details</b>	<b>3</b>
<b>2. Tables</b>	<b>4</b>
1.1. Table activity	4
1.2. Table activity_item_score	4
1.3. Table item	5
1.4. Table question	5
1.5. Table score	5
1.6. Table student_item	6
1.7. Table student_question	6
1.8. Table student_score	7
1.9. Table student_session	7
<b>3. Views</b>	<b>9</b>
2.1. View activitystudentitem_view	9
2.2. View activitystudentquestion_view	9
2.3. View activitystudentscore_view	10
<b>4. References</b>	<b>12</b>
3.1. Reference activity_item_score_activity_refid_fkey	12
3.2. Reference student_session_activity_refid_fkey	12
3.3. Reference activity_item_score_item_reference_fkey	12
3.4. Reference student_item_item_reference_fkey	12
3.5. Reference student_question_question_reference_fkey	12
3.6. Reference activity_item_score_score_reference_fkey	12
3.7. Reference student_score_score_reference_fkey	12
3.8. Reference student_question_student_item_refid_fkey	12
3.9. Reference student_score_student_item_refid_fkey	13
3.10. Reference student_score_student_question_refid_fkey	13
3.11. Reference student_item_session_refid_fkey	13
3.12. Reference student_score_session_refid_fkey	13
<b>5. Sequences</b>	<b>14</b>

# 1. Model details

**Model name:**

GradingDatamodel\_0522

**Version:**

2.3

**Database engine:**

postgresql

**Description:**

## 2. Tables

### 2.1. Table activity

#### 2.1.1. Columns

Column name	Type	Properties	Description
activity_refid	uuid(2147483647)		
teacher_assignment_refid	uuid(2147483647)	null	
staff_personal_refid	uuid(2147483647)	null	
num_questions	int4	null	
max_score	int4	null	
max_time	int4	null	
created_at	timestamp		
updated_at	timestamp		

#### 2.1.2. Indexes

Index name	Columns	Description
activity_staff_refid_idx	activity_refid (ASC), staff_personal_refid (ASC)	

### 2.2. Table activity\_item\_score

#### 2.2.1. Columns

Column name	Type	Properties	Description
refid	bigserial		
activity_refid	uuid(2147483647)		
item_reference	varchar(42)		
score_reference	varchar(42)		
max_score	int4	null	
weight	int4	null	
created_at	timestamp		
updated_at	timestamp		

question_reference	varchar(42)	null	
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## 2.3. Table item

### 2.3.1. Columns

Column name	Type	Properties	Description
item_reference	varchar(42)		
organisation_id	int4	null	
item_pool_id	varchar(60)	null	
type	varchar(36)	null	
created_at	timestamp		
updated_at	timestamp		

## 2.4. Table question

### 2.4.1. Columns

Column name	Type	Properties	Description
question_reference	varchar(42)		
rubric_reference	varchar(42)	null	
question_type	varchar(20)	null	
created_at	timestamp		
updated_at	timestamp		

## 2.5. Table score

### 2.5.1. Columns

Column name	Type	Properties	Description
score_reference	varchar(42)		
automarkable	bool	null	
correct_response	varchar(40)	null	
created_at	timestamp		
updated_at	timestamp		
title	varchar(128)	null	
description	text	null	

## 2.6. Table student\_item

### 2.6.1. Columns

Column name	Type	Properties	Description
refid	bigserial		
session_refid	uuid(2147483647)		
item_reference	varchar(42)		
time	int4	null	
max_score	int4	null	
user_flagged	bool	null	
created_at	timestamp		
updated_at	timestamp		

### 2.6.2. Alternate keys

Key name	Columns	Description
student_item_uq	session_refid, item_reference	

## 2.7. Table student\_question

### 2.7.1. Columns

Column name	Type	Properties	Description
refid	bigserial		
student_item_refid	int8		
question_reference	varchar(42)		
actual_response	text	null	
created_at	timestamp		
updated_at	timestamp		

### 2.7.2. Alternate keys

Key name	Columns	Description
student_item_question_uq	student_item_refid, question_reference	

## 2.8. Table student\_score

### 2.8.1. Columns

Column name	Type	Properties	Description
response_id	varchar(80)		
session_refid	uuid(2147483647)		
student_item_refid	int8		
student_question_refid	int8		
score_reference	varchar(42)	null	
staff_personal_refid	uuid(2147483647)	null	
attempted	bool	null	
value	text	null	
weight	int4	null	
max_score	int4	null	
score	int4	null	
created_at	timestamp		
updated_at	timestamp		

## 2.9. Table student\_session

### 2.9.1. Columns

Column name	Type	Properties	Description
session_refid	uuid(2147483647)		
activity_refid	uuid(2147483647)		
student_personal_refid	uuid(2147483647)		
num_attempted	int4	null	
score	int4	null	
session_duration	int4	null	
status	varchar(8)	null	
dt_started	timestamp	null	
dt_completed	timestamp	null	

user_agent	varchar(250)	null	
created_at	timestamp		
updated_at	timestamp		



## 3. Views

### 3.1. View activitystudentitem\_view

**SQL:**

```
SELECT DISTINCT st.refid,  
    st.session_refid AS sessionid,  
    st."time",  
    item.item_reference AS itemreference,  
    st.max_score AS maxscore,  
    st.user_flagged AS userflagged,  
    item.organisation_id AS organisationid,  
    item.item_pool_id AS itempoolid,  
    item.type  
FROM (student_item st  
    JOIN item item ON (((st.item_reference)::text =  
    (item.item_reference)::text)));
```

#### 3.1.1. Columns

Column name	Type	Properties	Description
refid	int8		
sessionid	uuid(2147483647)		
time	int4		
itemreference	varchar(42)		
maxscore	int4		
userflagged	bool		
organisationid	int4		
itempoolid	varchar(60)		
type	varchar(36)		

### 3.2. View activitystudentquestion\_view

**SQL:**

```
SELECT DISTINCT sq.refid,  
    sq.question_reference AS questionreference,  
    sq.student_item_refid AS studentitemrefid,  
    sq.actual_response AS actualresponse,  
    question.rubric_reference AS rubricreference,  
    question.question_type AS questiontype
```

```
FROM (student_question sq
      JOIN question question ON (((sq.question_reference)::text =
      (question.question_reference)::text)));
```

### 3.2.1. Columns

Column name	Type	Properties	Description
refid	int8		
questionreference	varchar(42)		
studentitemrefid	int8		
actualresponse	text		
rubricreference	varchar(42)		
questiontype	varchar(20)		

### 3.3. View activitystudentscore\_view

#### SQL:

```
SELECT DISTINCT ss.response_id AS responseid,
  ss.score_reference AS scorereference,
  ss.staff_personal_refid AS staffpersonalrefid,
  ss.student_question_refid AS studentquestionrefid,
  ss.attempted AS attempted,
  ss.value,
  ss.weight,
  ss.max_score AS maxscore,
  ss.score,
  score.title,
  score.description,
  score.automarkable,
  score.correct_response AS correctresponse
FROM (student_score ss
      JOIN score score ON (((ss.score_reference)::text =
      (score.score_reference)::text)));
```

### 3.3.1. Columns

Column name	Type	Properties	Description
responseid	varchar(80)		
scorereference	varchar(42)		

staffpersonalref id	uuid(2147483647)		
studentquestionr efid	int8		
attempted	bool		
value	text		
weight	int4		
maxscore	int4		
score	int4		
title	varchar(128)		
description	text		
automarkable	bool		
correctresponse	varchar(40)		

## 4. References

### 4.1. Reference activity\_item\_score\_activity\_refid\_fkey

<a href="#">activity</a>	0..*	<a href="#">activity_item_score</a>
activity_refid	<->	activity_refid

### 4.2. Reference student\_session\_activity\_refid\_fkey

<a href="#">activity</a>	0..*	<a href="#">student_session</a>
activity_refid	<->	activity_refid

### 4.3. Reference activity\_item\_score\_item\_reference\_fkey

<a href="#">item</a>	0..*	<a href="#">activity_item_score</a>
item_reference	<->	item_reference

### 4.4. Reference student\_item\_item\_reference\_fkey

<a href="#">item</a>	0..*	<a href="#">student_item</a>
item_reference	<->	item_reference

### 4.5. Reference student\_question\_question\_reference\_fkey

<a href="#">question</a>	0..*	<a href="#">student_question</a>
question_reference	<->	question_reference

### 4.6. Reference activity\_item\_score\_score\_reference\_fkey

<a href="#">score</a>	0..*	<a href="#">activity_item_score</a>
score_reference	<->	score_reference

### 4.7. Reference student\_score\_score\_reference\_fkey

<a href="#">score</a>	0..*	<a href="#">student_score</a>
score_reference	<->	score_reference

### 4.8. Reference student\_question\_student\_item\_refid\_fkey

<a href="#">student_item</a>	<b>0..*</b>	<a href="#">student_question</a>
refid	<->	student_item_refid

#### 4.9. Reference student\_score\_student\_item\_refid\_fkey

<a href="#">student_item</a>	<b>0..*</b>	<a href="#">student_score</a>
refid	<->	student_item_refid

#### 4.10. Reference student\_score\_student\_question\_refid\_fkey

<a href="#">student_question</a>	<b>0..*</b>	<a href="#">student_score</a>
refid	<->	student_question_refid

#### 4.11. Reference student\_item\_session\_refid\_fkey

<a href="#">student_session</a>	<b>0..*</b>	<a href="#">student_item</a>
session_refid	<->	session_refid

#### 4.12. Reference student\_score\_session\_refid\_fkey

<a href="#">student_session</a>	<b>0..*</b>	<a href="#">student_score</a>
session_refid	<->	session_refid

## 5. Sequences

Sequence name	Starts with	Description
activity_item_score_refid_seq	1	
student_item_refid_seq	1	
student_question_refid_seq	1	