Moodle quizzes for exams

Marcel Graf (<u>marcel.graf@heig-vd.ch</u>)

Content

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- Moodle quizzes what for?
- Student experience of a quiz
 - Question types
- Workflow for creating, administering and marking an exam
 - Authoring questions
 - Creating a quiz
 - Marking a quiz

Background

- I am teaching large classes (40 50 students) and I was looking for more efficient evaluations.
 - I wanted to go beyond pure multiple-choice exams and permit also open-ended questions.
 - I have been using Moodle quizzes in two classes for Travaux Écrits since last year (non-remotely) and I am happy with the results.
- How to mitigate cheating in remote exams is an open question.
 - In a non-remote setting students take the exam in the classroom. You have to verify that all students
 are present in the classroom and do not attempt to take the exam at home. You also have to monitor
 their screens to verify that no forbidden communication is taking place.
 - In a remote teaching setting you cannot control forbidden communication channels.
 - Proctoring is too expensive.

Moodle quizzes — What for?

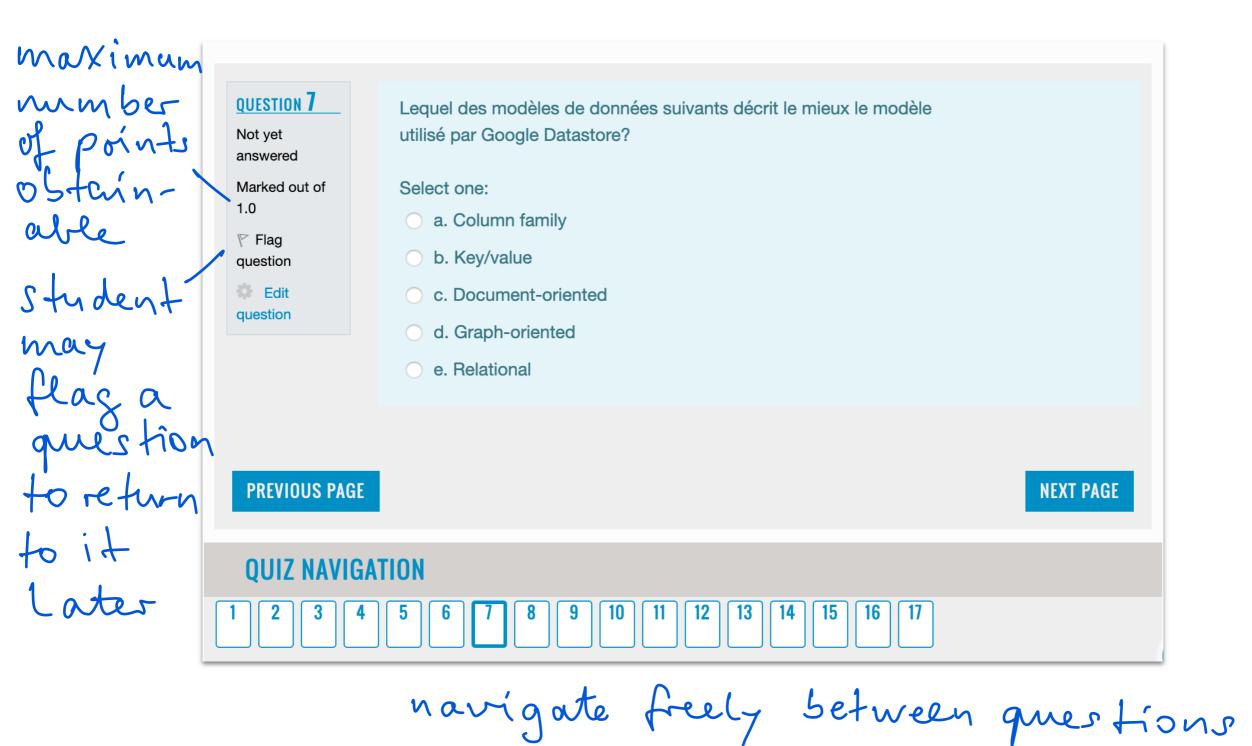
Formative (help students test their understanding)

- Multiple attempts
- Duration not limited
- May impose loose time limit for completion (e.g., evening before class)
- Immediate feedback (after each question or at the end of attempt)
- Automatic and manual marking

- Single attempt
- Duration strictly limited (e.g., 45 minutes)
- Time window strictly limited (e.g., from 14:00 to 15:00)
- Feedback only after marking and grading
- Automatic and manual marking

focus of this presentation

Student experience of a quiz





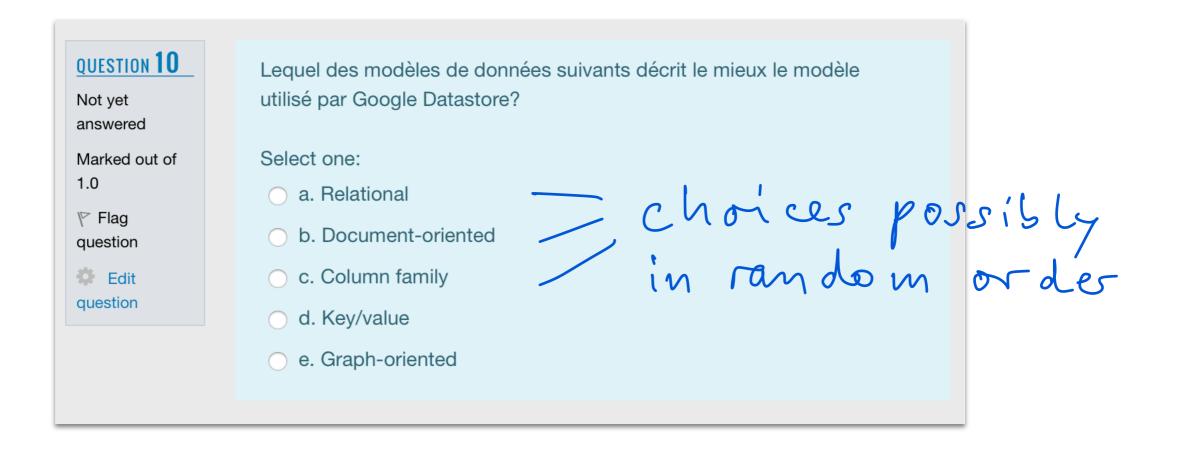
• Multiple choice: Allows the selection of responses from a pre-defined list.

- Single answer
- Multiple answers
- Short answer: Allows a response of one or a few words that is graded by comparing against various model answers, which may contain wildcards.
- Matching: The answer to each of a number of sub-questions must be selected from a list of possibilities.
- Drag and drop markers: Markers are dragged and dropped onto a background image (no visible drop zones).
- Drag and drop onto image: Like drag and drop markers, but with visible drop zones.
- Embedded answers (Cloze): Embed into a text several multiple choice or short answer questions.

Question types Others

- True/False
- Numerical
- Calculated
- Essay
- Random short-answer matching
- Calculated multi choice
- Calculated simple
- Drag and drop into text
- Kprime (ETH)
- Select missing words

Multiple choice - single answer



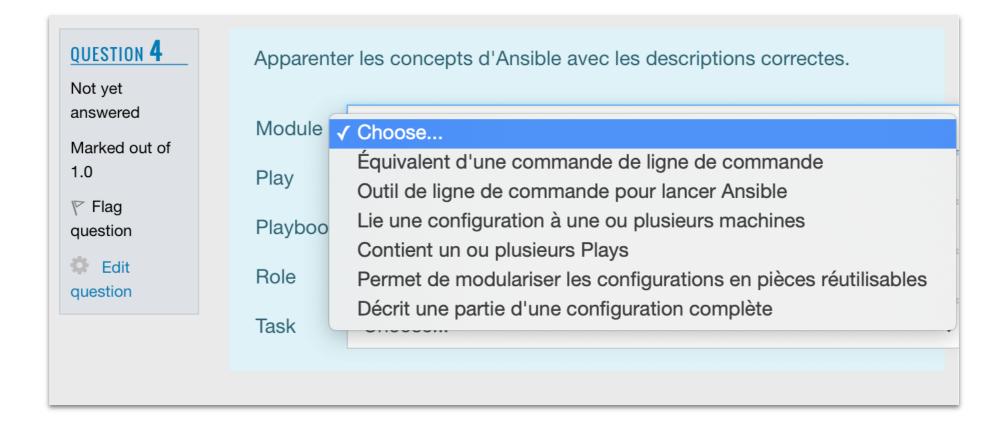
Multiple choice - multiple answers

QUESTION 12 Not yet answered	Quelle-s est/sont la/les caractéristique-s commune-s des bases de données NoSQL?
Marked out of 1.0 Flag question	 Select one or more: a. Permettent de stocker les donnés sans définir un schéma. b. Sont conçues pour tourner sur un cluster.
Edit question	 c. Offrent en plus du modèle de données relationnel d'autres modèles, comme le modèle clé-valeur. d. Ne supportent pas des requêtes SQL. e. Sont seulement disponibles comme service cloud.

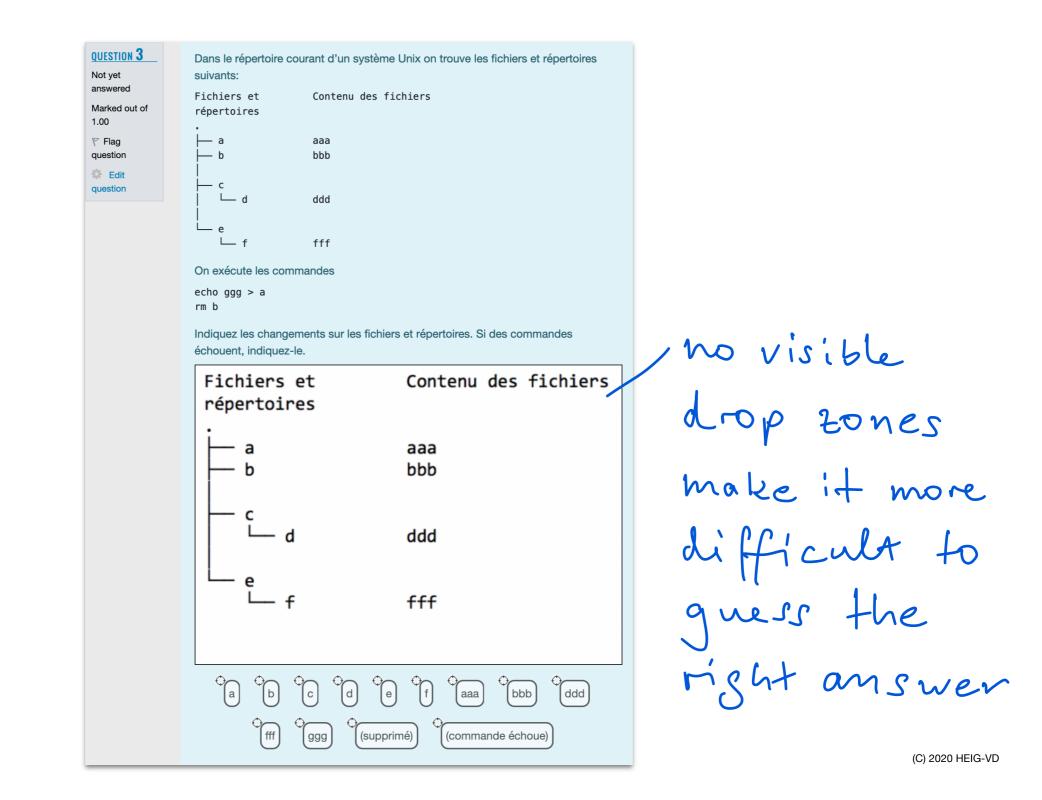
Short answer

QUESTION 5 Not yet answered	Pour les bases de données dans le cloud il y a différents modèles de service, notamment il y a des bases de données uni-locataire (single tenancy) et multi-locataires (multi-tenancy).								
Marked out of 1.00 Flag question	Donner un avantage important d'une base de données multi-locataires.								
	adaptable size								

Matching



Drag and drop markers



Embedded answers (Cloze)

QUESTION 4 Not yet answered	Émilie veut mettre en service un base de données NoSQL. Elle a quatre serveurs aux characteristiques identiques à sa disposition. Au cas où elle déploierait la base de donnée sur un seul serveur le serveur permettrait de stocker 1 TO de données et il supporterait
Marked out of	1000 lectures par seconde ou 1000 écritures par seconde.
3.0	Émilie déploie la base de données sur les quatre serveurs en utilisant le sharding.
question	La base de données pourra stocker TO de données.
Edit question	Dans le meilleur des cas la base de données supportera lectures par seconde.
	Dans le meilleur des cas la base de données supportera écritures par seconde.

Workflow

- Before exam:
 - Teacher
 - Authors questions in Question Bank
 - Provides initial marking criteria, can be revised later
 - Creates a Quiz activity
 - Hides Quiz
 - Adds questions to Quiz
- At time of exam:
 - Teacher
 - Makes Quiz visible
 - Students
 - Attempt the Quiz
 - Teacher
 - Hides the Quiz

- After exam:
 - Teacher
 - Reviews students' answers
 - Updates/adds marking criteria for automatic marking if necessary
 - Has Moodle re-grade the quiz
 - Repeats as needed
 - Overrides automatic marking with manual marking where necessary
 - Questions where automatic marking is not possible can be marked purely manually
 - Provides feedback per question
 - Individually or for all students
 - Makes Quiz visible
 - Students
 - Review their attempt, achieved marks, teacher's feedback

Authoring questions in Question Bank

- Recommended to author questions in Question Bank
 - Better overview
 - Reusable questions
- Course Management > Question Bank > Question Bank

Questions can be grouped in Question
 Categories, which form a hierarchy



QUESTIONS		
QUESTION BA	NK	
Select a category:	Travail Écrit 2 (16)	÷
No tag filters app	lied	
Filter by tags	•	
Show question t	ext in the question list	
Search options Also show quest	tions from subcategories	
□Also show old q	uestions	

CREATE A NEW QUESTION ...

T •	QUESTION					CREATED BY FIRST NAME / SURNAME / DATE	LAST MODIFIED BY First name / Surname / Date
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	DBaaS performance 1	÷.	4	æ	Û	Graf Marcel 12 June 2019, 11:36 AM	Graf Marcel 29 June 2019, 6:52 PM
	DBaaS performance 2	Ф	4	Ð	Û	Graf Marcel 12 June 2019, 11:38 AM	Graf Marcel 29 June 2019, 2:50 PM
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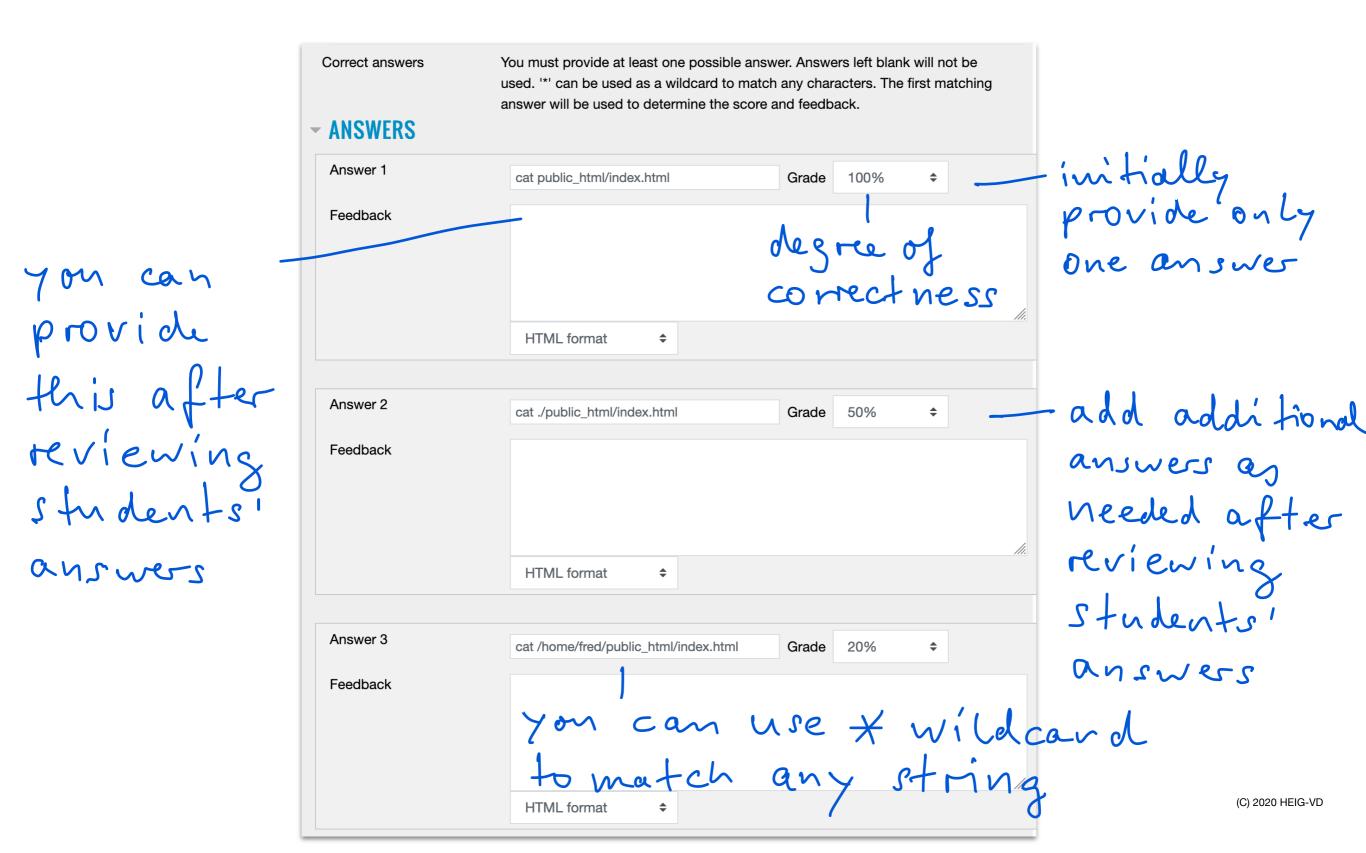
Authoring questions — Short answer

EDITING A SHOP	RT ANS	SWER QUESTION @	
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Save in category		Travail Écrit 1 (22) = students don't see t	th's
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			2020 HEIG-VI

Authoring questions — Short answer

Default mark	0	1
General feedback	2	La réponse la plus courte utilise un chemin relatif. Norite this after reviewing students' answers
		Moodle auto-format 🗢
ID number	0	
Case sensitivity		No, case is unimportant 🗢

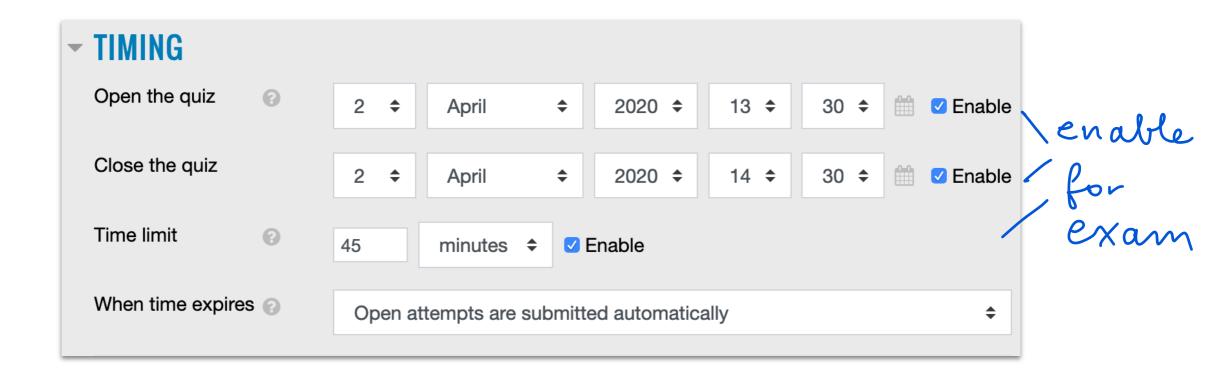
Authoring questions — Short answer

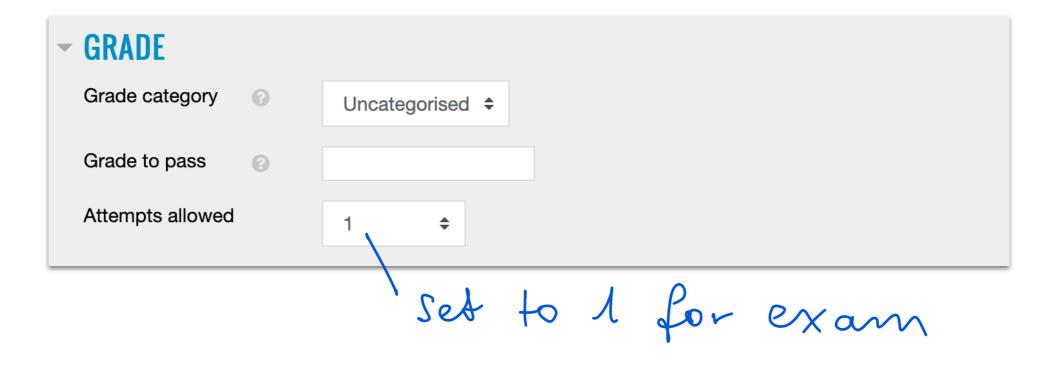


Creating a quiz

Turn editing on > Add an activity > Quiz

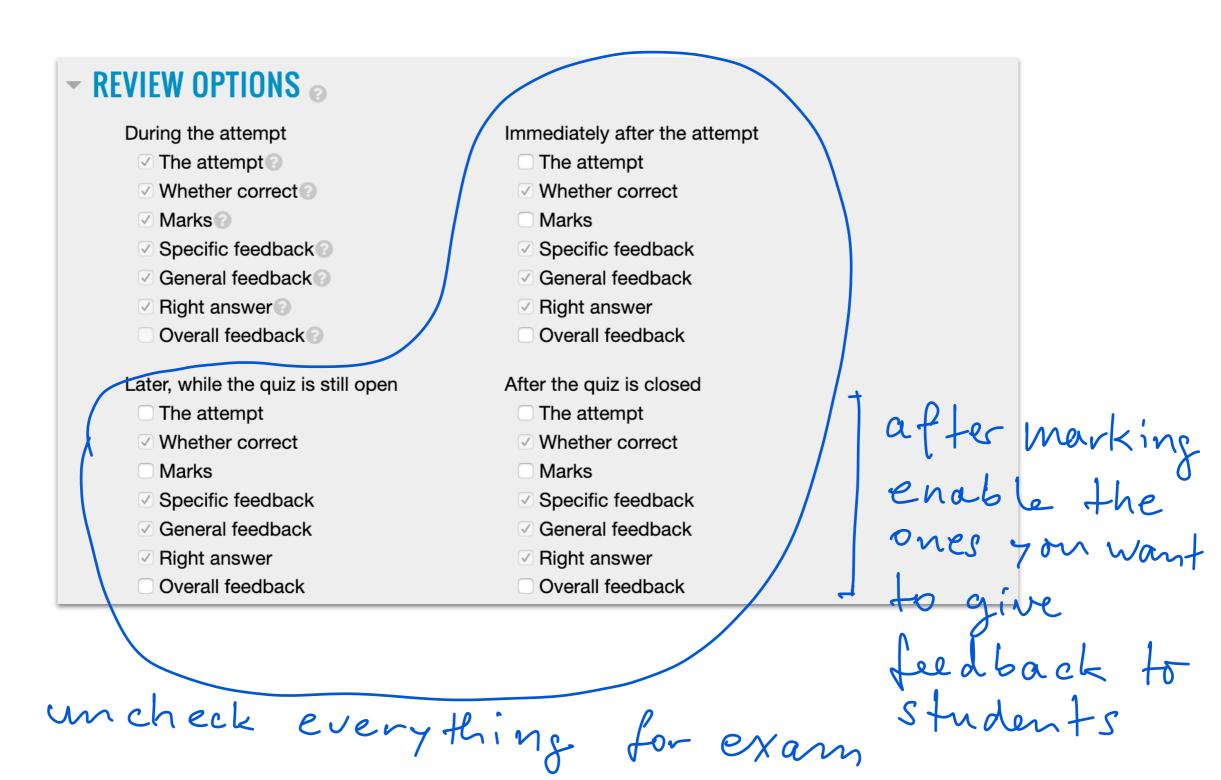
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- LAYOUT							
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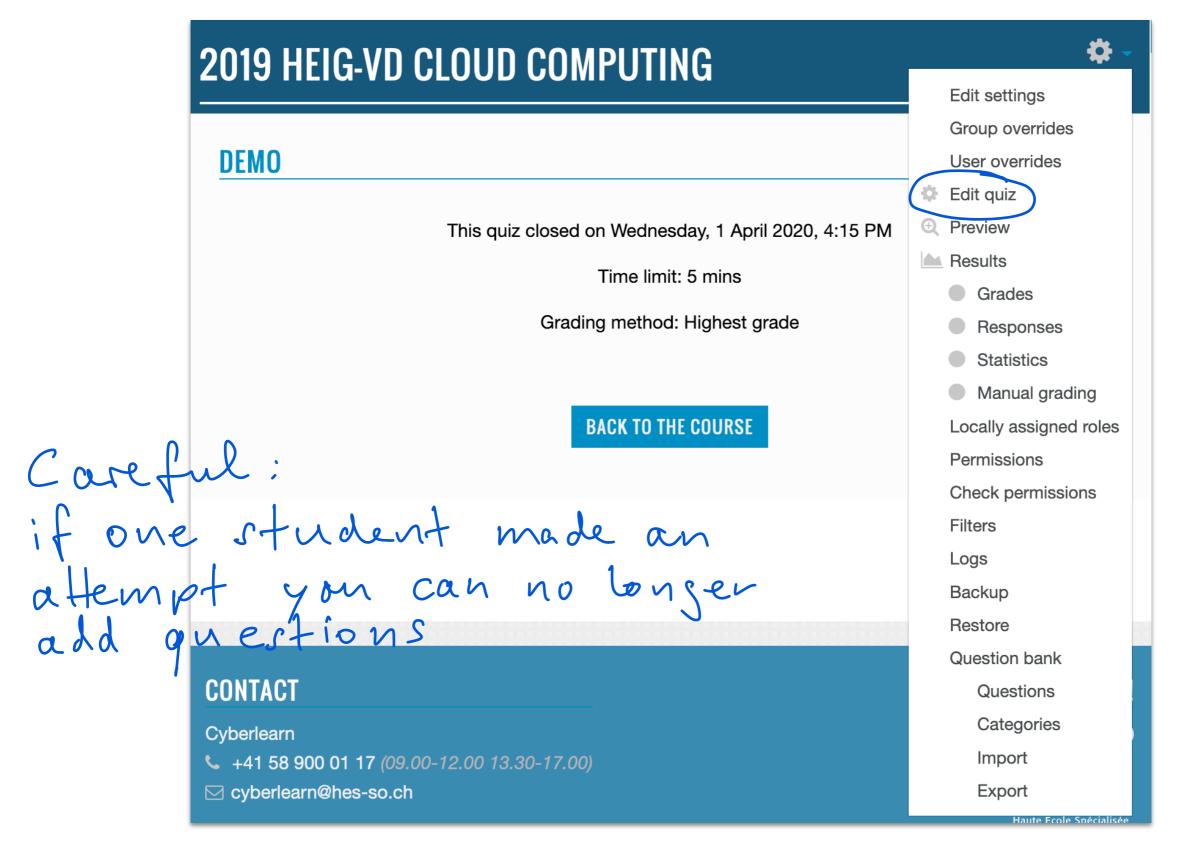
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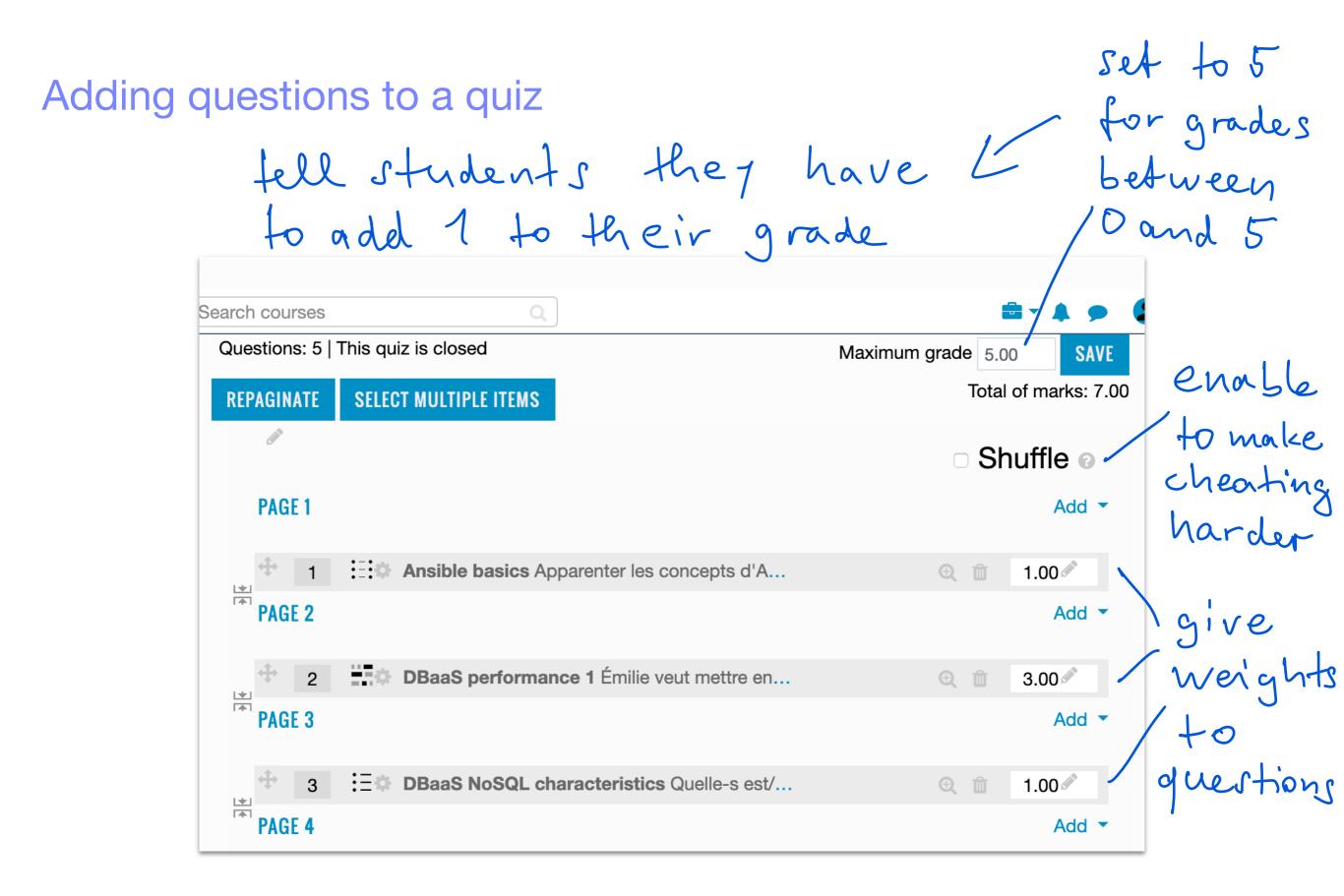
Creating a quiz

• After creating the quiz, hide it from students.

- Unhide it just before the exam.
- Then click on the quiz to add questions.

Adding questions to a quiz





Previewing a quiz

• When you are finished adding questions to the quiz you can preview the whole quiz and experience it as a student would:

Quiz activity > (Cogwheel) > Preview

Marking a quiz

• After students have attempted the quiz, you can no longer

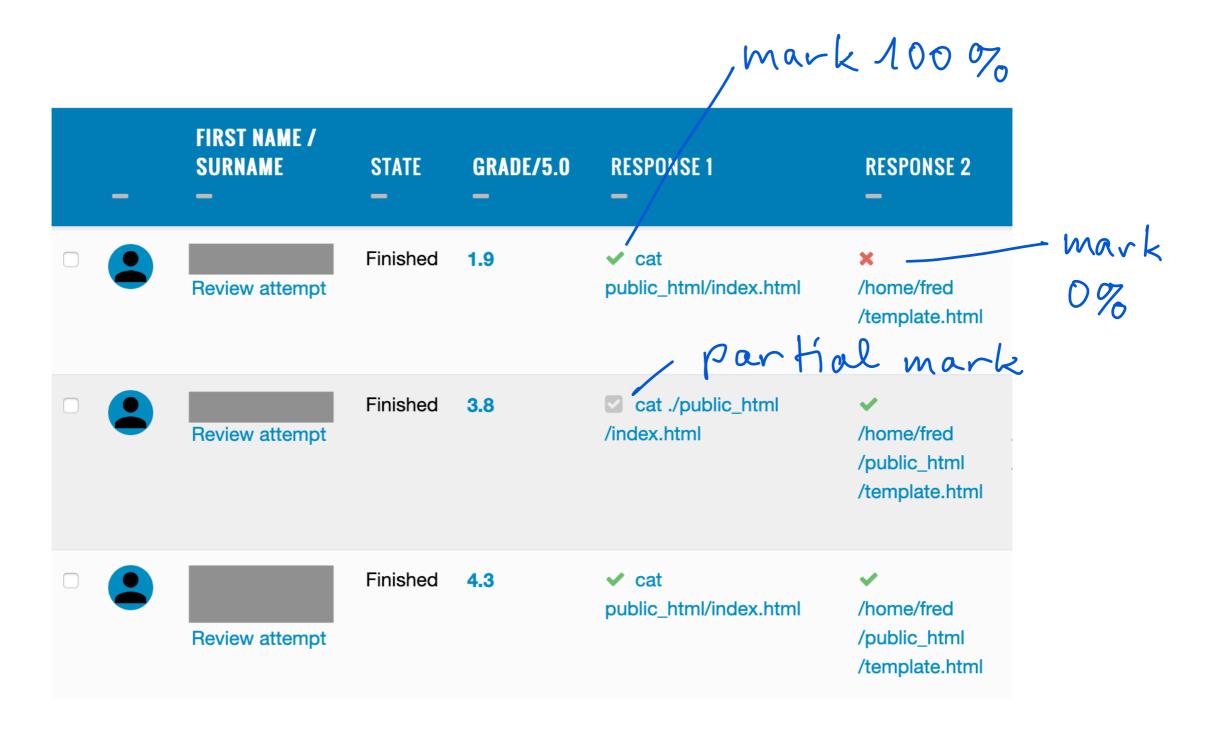
- add or remove questions,
- change the question text;
- but in a question, you can change
 - the answers (the criteria for automatic marking),
 - the marking,
 - the feedback.

Marking a quiz — Reviewing answers

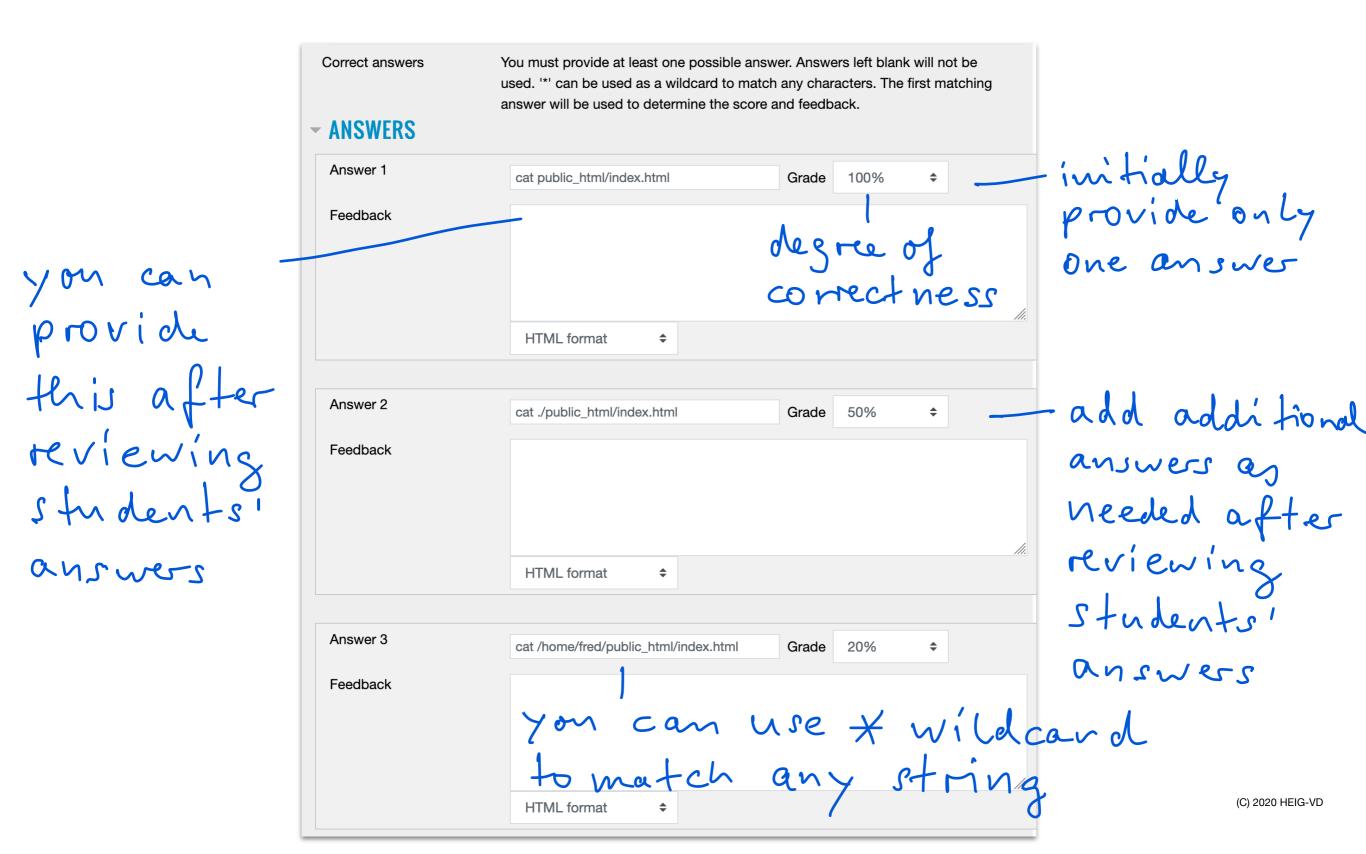
See all responses: Quiz activity > (Cogwheel) > Results > Responses

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Marking a quiz — Reviewing answers



Marking a quiz — Updating criteria for automatic marking



Marking a quiz — Running an automatic re-grade

To apply the new marking criteria you need to run a re-grade:

Quiz activity > (Cogwheel) > Results > Regrade All

TRAVAIL ÉCRIT 1		
Attempts: 47		
✓ WHAT TO INCLUDE IN THE REPORT		 Collapse all
Attempts from	enrolled users who have attempted the quiz	
Attempts that are	In progress Overdue Finished Never submitted	
Show only attempts	that have been regraded / are marked as needing regrading	
- DISPLAY OPTIONS		
Page size	100	
Marks for each question	Yes 🗢	
	SHOW REPORT	
(REGRADE ALL DRY RUN A FULL REGRADE	
	Only one attempt per user allowed on this quiz.	

Marking a quiz — Manual override

- You can override the the results of automatic marking at any time by providing a manual mark.
- The manual marks persist even if you run a re-grade.
- In the answers overview, click on an answer for a detail view, then click on Make comment or override mark.

Comment

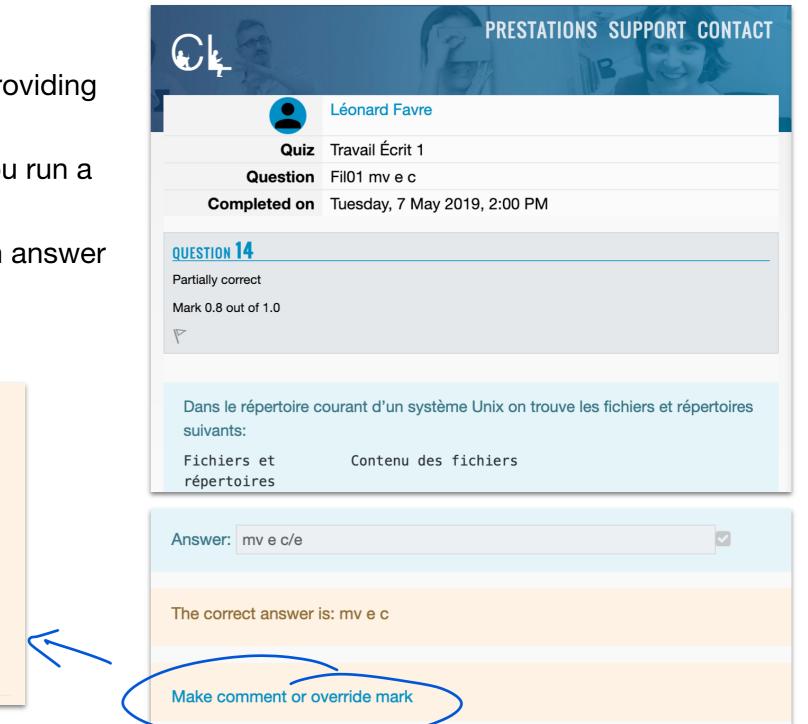
Format

Mark

HTML format

0.75 out of 1.0

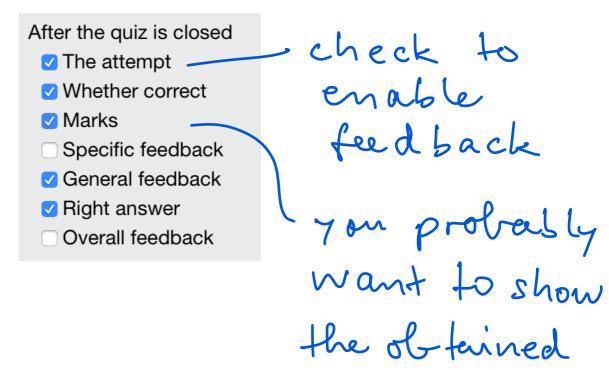
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Marking a quiz — Giving feedback to students

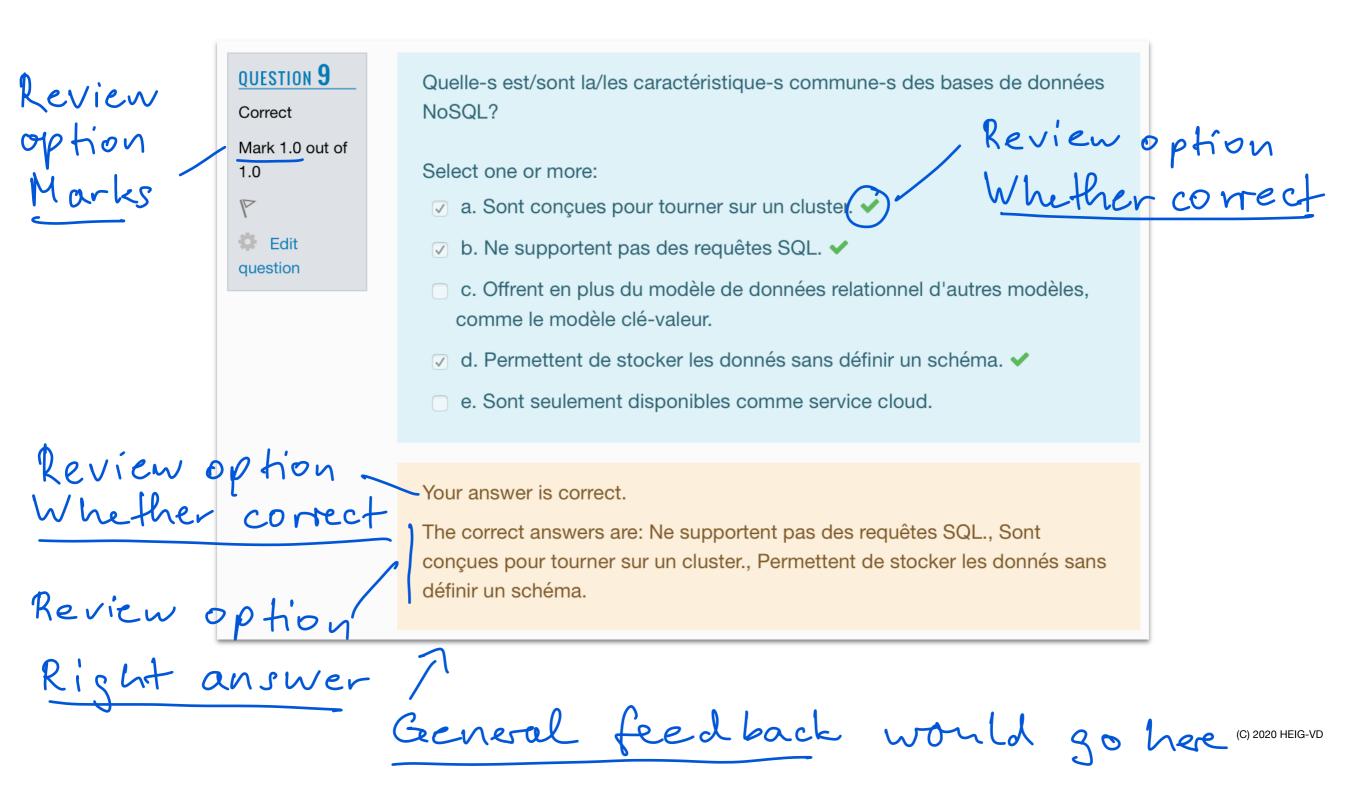
- After marking the answers you can give feedback to students.
- Students can review the feedback by clicking again on the Quiz activity.
- Choose which forms of feedback you want to give by updating the review settings:

Quiz activity > Settings > Review Options > After the quiz is closed



Marke

Multiple choice - multiple answers - Student review



Short answer - Student review

Correct Mark 1.0 out of 1.0

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Use General

feed back to show

possible answers

OUESTION 2

Pour les bases de données dans le cloud il y a différents modèles de service, notamment il y a des bases de données uni-locataire (single tenancy) et multi-locataires (multi-tenancy).

Donner un avantage important d'une base de données multi-locataires.

Answer: Facilement scalable (montée en taille) les données peuvent être

Réponses possibles:

Avantages pour l'utilisateur

- la capacité de stockage paraît infinie, pas besoin de gérer la capacité
- on paye seulement ce que l'on utilise, pas la capacité réservée
- généralement prix plus bas à cause de la mutualisation
- généralement réplication déjà incluse dans l'offre de base, donc haute disponibilité/fiabilité, pas besoin de faire des backups
- généralement sharding utilisé dans l'offre de base, donc meilleure performance

Avantages pour le prestataire

- moins de serveurs à gérer, car les serveurs sont partagés entre clients
- généralement coûts d'exploitation plus bas

The correct answer is: plusieurs réponses possibles

Review option Whether Correct not very helpful for openended question

- To play with quizzes you can create a hidden quiz and use the preview function.
- Before using Moodle for an exam prepare a quiz (no grades) to allow students to become familiar with the interface.
- Explain beforehand in detail how you will mark multiple-choice questions.