Plan for moderation in Guitar Wars

Adding a human moderation feature to Guitar Wars is significant because it affects several parts of the application. The database must change, a new script must be created to carry out an approval, the Admin page must add an "Approve" link to each score, and finally, the main page must change to only show approved scores. With this many changes involved, it's important to map out a plan and carry out each change one step at a time.

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Use ALTER to add an approved column to the table.

Let's start with the database, which needs a new column for keeping up with whether or not a score has been approved.

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31.	20000501 31:11.17	Tilliana Styles	534995	Shirmsoure gif	0
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285	2008-01-02-20-16-3F	fester	523718	pageori gil.	0



Modify the Admin page to include an "Approve" link for scores that have yet to be approved.

The Approve Score script is a back-end script that shouldn't normally be accessed directly. Instead, it is accessed through "Approve" links generated and displayed on the Admin page—only unapproved scores have the "Approve" link next to them.



Create an Approve Score script that handles approving a new high score (sets the approved column to 1).

With the database ready to accommodate high score approvals, you need a script to actually handle approving a score. This Approve Score script is responsible for looking up a specific score in the database and changing the approved column for it.



Change the query on the main page to only show approved scores.

The last step is to make sure all this approval stuff gets factored into the main high score view. So the main page of the application changes to only show high scores that have been approved—without this change, all the other approval modifications would be pointless.



Make room for approvals with ALTER

Adding the new approved column to the guitarwars table involves a one-time usage of the ALTER TABLE statement, which is an SQL statement we've used before.

ALTER TABLE guitarwars
ADD COLUMN approved TINYINT

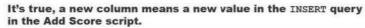
The MySQL data type BOOL is an alias for TINYINT, so you can use either one

The new approved column is a TINYINT that uses 0 to indicate an unapproved score, or 1 to indicate an approved score. So all new scores should start out with a value of 0 to indicate that they are initially unapproved.



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Wait a minute. I don't think you can just go adding a column to the database without changing the Add Score script—shouldn't it INSERT data into the new column?



It's important to not lose sight of the fact that a PHP application is a careful orchestration of several pieces and parts: a database consisting of tables with rows and columns, PHP code, HTML code, and usually CSS code. It's not always immediately apparent that changing one part requires changing another. Adding the new approved column in the guitarwars table for the sake of the new Approve Score script also requires modifying the INSERT query in the Add Score script:

All newly inserted high score rows have approved set to O ... unapproved! -

INSERT INTO guitarwars
VALUES (0. NOW(). 'Snar

VALUES (0, NOW(), '\$name', '\$score', '\$screenshot', 0)



id	date	name	store	screenshot	approved
30		144			
30	2008-05-02 14:02:54	Ethel Heckel	500000	ethelsscore.gif	0
31	2008-05-02 20:32:54	Biff Jeck	314340	biffsscore.gif	
32	2008-05-02 20:36:38	Pez Law	322710	pezsscore.gif	0

When a new column is added, its approved column is set to 0 so that it starts out unapproved

Sharpen your pencil

The Approve Score script is similar in structure to the Remove Score script except that its job is to approve a score. Finish the missing code for the Approve Score script, making sure to secure the page and only approve the appropriate score based on score data passed through a URL.

```
<?php
......<sup>j</sup>
<?php
 require_once('appvars.php');
 require_once('connectvars.php');
 if (isset($ POST['submit'])) {
  if (______) (
    // Connect to the database
    $dbc = mysqli connect(DB HOST, DB USER, DB PASSWORD, DB NAME);
    // Approve the score by setting the approved column in the database
    $query = "UPDATE guitarwars SET";
   mysqli_query($dbc, $query);
   mysqli close($dbc);
   // Confirm success with the user
   echo
  1
  else {
   echo
 echo '<a href=" ">&lt; &lt; Back to admin page</a>';
```