

How to Fix Common Database and PHP Errors

QUICK GUIDE

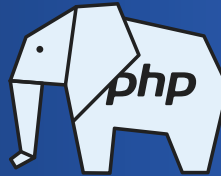


Table of Contents

How to Fix Common Database and PHP Errors	3	Miscellaneous Errors & Debugging	
What are Database and PHP Errors?	4	No Input File Specified Error	11
Database Errors		Exporting Error Logs	12
Reducing Database Size in WordPress	5	db_name Error	13
General Database Size Reduction Methods	6	How to reduce the database size of a custom application?	14
Website MySQL Errors	7	Conclusion	15
PHP Configuration & Errors			
Upload Max Filesize Error	8		
PHP Warnings & Errors on Site	9		
Enabling PHP Error Reporting	10		

How to Fix Common Database and PHP Errors

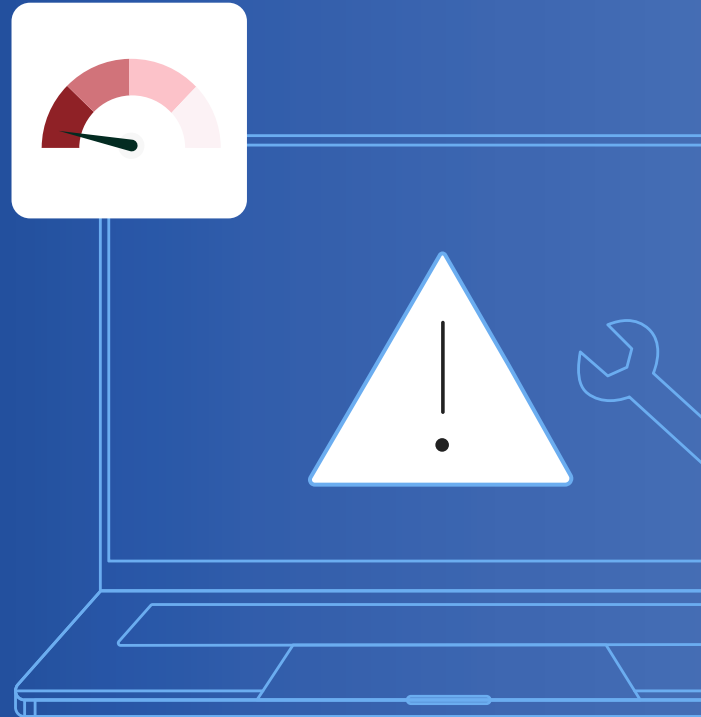
Database and PHP errors can disrupt websites, and cause slow performance, broken functionality, or even complete site failures.

Whether it's a MySQL connection issue or a PHP error, these problems can arise due to misconfigurations, outdated software, or server limitations.

In this guide, we'll walk you through some of the most common database issues and PHP errors, explain why they happen, and show you how to fix them.

From database optimization to PHP settings adjustments, we'll cover everything you need to keep your site running smoothly.

Let's get started!



What are Database and PHP Errors?

Database and PHP errors occur when something prevents a website from properly processing data or executing scripts.



Database Errors

Database errors often involve MySQL or another database system failing to retrieve, store, or manage data correctly.

These issues can result from incorrect login credentials, corrupted tables, large database sizes, or misconfigured settings.



PHP Errors

PHP errors, on the other hand, are related to the scripting language that powers dynamic website features.

These errors can be caused by incorrect syntax, outdated functions, memory limitations, or misconfigured server settings.

Understanding these issues can help you troubleshoot and resolve them efficiently.

In this guide, we'll explore the most common database and PHP errors, their causes, and step-by-step solutions.

Database Errors

Reducing Database Size in WordPress

Definition	
Over time, WordPress databases accumulate unnecessary data, increasing storage use and slowing down the site.	
Causes	How to Fix
• Post revisions stored in the database. • Unused transients and temporary options. • Spam comments, deleted posts, and old plugin data. • Unoptimized tables that grow over time.	• Use SiteGround Speed Optimizer's DB optimization functionality. • Delete post revisions and unnecessary transients. • Remove spam comments and unused plugin data. • Optimize database tables via phpMyAdmin or a plugin. LEARN MORE

General Database Size Reduction Methods

Definition	
Databases store vast amounts of information, and without regular maintenance, they can become bloated and inefficient.	
Causes	How to Fix
• Accumulation of old logs and temporary records. • Unused database tables from removed applications. • Inefficient queries causing redundant data storage. • Lack of regular database optimization.	• Identify and remove unnecessary tables or records. • Optimize queries to reduce redundant storage. • Use automated cleanup tools to remove old logs. • Periodically optimize database tables. LEARN MORE

Website MySQL Errors

Definition	
MySQL errors occur when a database query fails, causing site malfunctions or connection issues.	
Causes	How to Fix
• Incorrect database credentials in configuration files. • Corrupt database tables due to crashes or improper shutdowns. • High server load causing slow database responses. • Insufficient database user privileges.	• Verify and update database credentials. • Repair corrupted tables using php • MyAdmin or MySQL commands. • Optimize database performance and reduce load. • Ensure proper database user permissions. LEARN MORE

PHP Configuration & Errors

Upload Max File size Error

Definition	
This error occurs when attempting to upload a file that exceeds the PHP-defined limit.	
Causes	How to Fix
• PHP's <code>upload_max_filesize</code> value is too low. • <code>post_max_size</code> is smaller than the file size. • Web server configuration limits file uploads. • File exceeds hosting plan restrictions.	• Increase <code>upload_max_filesize</code> in <code>php.ini</code>. • Adjust <code>post_max_size</code> to a higher value. • Modify <code>.htaccess</code> or <code>wp-config.php</code> settings if necessary. • Use an alternative upload method (FTP, hosting control panel file manager utility). LEARN MORE

PHP Warnings & Errors on Site

Definition	
PHP warnings and errors are displayed when the server encounters issues in executing scripts.	
Causes	How to Fix
• Outdated or incompatible PHP functions. • Syntax errors in PHP code. • Memory limit restrictions causing script failures. • Server configuration issues.	• Enable debugging to display error messages. • Update scripts to be compatible with the latest PHP version. • Increase PHP memory limit in php.ini. • Review and fix syntax or logical errors in code. LEARN MORE

Enabling PHP Error Reporting

Definition	
PHP error reporting allows developers to diagnose and fix script errors by displaying warnings and errors.	
Causes	How to Fix
• PHP error messages are disabled by default. • Errors occur but are not logged or displayed. • Debugging tools are not enabled.	• Modify <code>php.ini</code> to enable error reporting. • Use <code>error_reporting(E_ALL);</code> and <code>ini_set('display_errors', 1);</code> in scripts. • Check server logs for hidden errors. LEARN MORE

Miscellaneous Errors & Debugging

No Input File Specified Error

Definition	
This error occurs when a requested script cannot be found or accessed by the server.	
Causes	How to Fix
• Incorrect file paths in scripts. • Missing or deleted files referenced by the application. • Misconfigured rewrite rules causing incorrect redirections. • Insufficient file permissions preventing script execution.	• Verify that the requested script exists in the correct location. • Check and correct rewrite rules in .htaccess. • Ensure files have appropriate read and execute permissions. • Clear server cache if necessary. LEARN MORE

Exporting Error Logs

Definition	
Error logs store information about PHP and server issues, helping diagnose problems	
Causes	How to Fix
• Errors occur but are not displayed in the browser. • Server settings prevent direct error message output. • Debugging tools require access to logs for troubleshooting.	• Use PHP error log in the php_errorlog file in the public_html folder of the site. • Access logs via the hosting control pane file manager utility or FTP. • Enable logging in php.ini if disabled. LEARN MORE

ACCESS DENIED CREATE DATABASE db_name Error

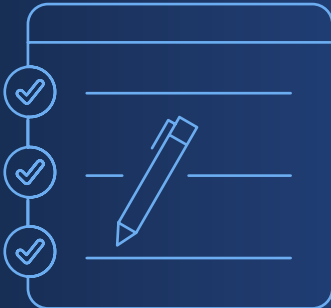
Definition	
Error 'ACCESS DENIED CREATE DATABASE db_name' occurs during database import.	
Causes	How to Fix
• Insufficient permissions to create a database during import. • Presence of a "CREATE DATABASE" statement in the backup file.	• Open the backup file, delete the "CREATE DATABASE" line, save, and re-import. LEARN MORE

How to reduce the database size of a custom application?

Definition	
Reducing database size involves optimizing and managing data to free up space and improve performance.	
Causes	How to Fix
• Logs and unnecessary data stored in the database. • Spam comments and fake registrations that increase database size. • Natural growth due to increased products, users, comments, and orders.	• Create a backup before making changes. • Optimize database tables using PHPMyAdmin. • Review and remove unnecessary data and logs. • Protect forms with Captcha to prevent spam. • Consider upgrading your hosting plan if needed. LEARN MORE

Conclusion: Tackling Database and PHP Errors

Database and PHP errors can be frustrating, but most of them have clear solutions.



Whether it's optimizing your database, adjusting PHP settings, or debugging scripts, understanding the root causes can help you resolve issues quickly.

Regular maintenance, such as cleaning up database clutter, updating PHP configurations, and monitoring error logs, can prevent many common problems. If an error does occur, following structured troubleshooting steps will ensure a smooth resolution.

By applying the fixes outlined in this guide, you can keep your website running efficiently and minimize downtime caused by database or PHP issues.



Congrats—you've mastered the essentials of fixing database and PHP issues.

But maintaining top performance isn't just about quick fixes. It's about having a hosting environment built to prevent issues before they happen. With SiteGround's secure hosting, you get:

- Optimized database performance that keeps your site loading fast
- Advanced PHP setup for better stability and fewer errors
- Automatic monitoring and smart troubleshooting tools to resolve issues before they impact visitors
- Expert support that's always ready to help

Keep your site performing at its best—reliably, securely, and efficiently.

[Explore Secure Hosting](#)

Found this guide helpful?

Share it with someone who might benefit!

For more insights on optimizing your website, be sure to connect with us on social media.

