- If your data appears corrupt or you get errors when you access a particular table, first check your tables with CHECK TABLE. If that statement reports any errors:
 - The Innobe crash recovery mechanism handles cleanup when the server is restarted after being killed, so in typical operation there is no need to "repair" tables. If you encounter an error with Innobe tables, restart the server and see whether the problem persists, or whether the error affected only cached data in memory. If data is corrupted on disk, consider restarting with the innobe force recovery option enabled so that you can dump the affected tables.
 - For non-transactional tables, try to repair them with REPAIR TABLE or with myisamchk. See Chapter 5, MySQL Server Administration.

If you are running Windows, please verify the value of <code>lower_case_table_names</code> using the <code>SHOW VARIABLES LIKE 'lower_case_table_names'</code> statement. This variable affects how the server handles lettercase of database and table names. Its effect for a given value should be as described in Section 9.2.3, "Identifier Case Sensitivity".

- If you often get corrupted tables, you should try to find out when and why this happens. In this case, the error log in the MySQL data directory may contain some information about what happened. (This is the file with the .err suffix in the name.) See Section 5.4.2, "The Error Log". Please include any relevant information from this file in your bug report. Normally mysqld should never corrupt a table if nothing killed it in the middle of an update. If you can find the cause of mysqld dying, it is much easier for us to provide you with a fix for the problem. See Section B.3.1, "How to Determine What Is Causing a Problem".
- If possible, download and install the most recent version of MySQL Server and check whether it solves
 your problem. All versions of the MySQL software are thoroughly tested and should work without
 problems. We believe in making everything as backward-compatible as possible, and you should be able
 to switch MySQL versions without difficulty. See Section 2.1.2, "Which MySQL Version and Distribution
 to Install".

1.7 MySQL Standards Compliance

This section describes how MySQL relates to the ANSI/ISO SQL standards. MySQL Server has many extensions to the SQL standard, and here you can find out what they are and how to use them. You can also find information about functionality missing from MySQL Server, and how to work around some of the differences.

The SQL standard has been evolving since 1986 and several versions exist. In this manual, "SQL-92" refers to the standard released in 1992. "SQL:1999", "SQL:2003", "SQL:2008", and "SQL:2011" refer to the versions of the standard released in the corresponding years, with the last being the most recent version. We use the phrase "the SQL standard" or "standard SQL" to mean the current version of the SQL Standard at any time.

One of our main goals with the product is to continue to work toward compliance with the SQL standard, but without sacrificing speed or reliability. We are not afraid to add extensions to SQL or support for non-SQL features if this greatly increases the usability of MySQL Server for a large segment of our user base. The HANDLER interface is an example of this strategy. See Section 13.2.4, "HANDLER Statement".

We continue to support transactional and nontransactional databases to satisfy both mission-critical 24/7 usage and heavy Web or logging usage.

MySQL Server was originally designed to work with medium-sized databases (10-100 million rows, or about 100MB per table) on small computer systems. Today MySQL Server handles terabyte-sized databases.