- InnoDB enhancements. These InnoDB enhancements were added:
 - The current maximum auto-increment counter value is written to the redo log each time the value changes, and saved to an engine-private system table on each checkpoint. These changes make the current maximum auto-increment counter value persistent across server restarts. Additionally:
 - A server restart no longer cancels the effect of the AUTO_INCREMENT = N table option. If you initialize the auto-increment counter to a specific value, or if you alter the auto-increment counter value to a larger value, the new value is persisted across server restarts.
 - A server restart immediately following a ROLLBACK operation no longer results in the reuse of autoincrement values that were allocated to the rolled-back transaction.
 - If you modify an AUTO_INCREMENT column value to a value larger than the current maximum auto-increment value (in an UPDATE operation, for example), the new value is persisted, and subsequent INSERT operations allocate auto-increment values starting from the new, larger value.

For more information, see Section 15.6.1.6, "AUTO_INCREMENT Handling in InnoDB", and InnoDB AUTO_INCREMENT Counter Initialization.

- When encountering index tree corruption, InnoDB writes a corruption flag to the redo log, which
 makes the corruption flag crash safe. InnoDB also writes in-memory corruption flag data to an engineprivate system table on each checkpoint. During recovery, InnoDB reads corruption flags from both
 locations and merges results before marking in-memory table and index objects as corrupt.
- The InnoDB memcached plugin supports multiple get operations (fetching multiple key-value pairs in a single memcached query) and range queries. See Section 15.20.4, "InnoDB memcached Multiple get and Range Query Support".
- A new dynamic variable, innodb_deadlock_detect, may be used to disable deadlock detection.
 On high concurrency systems, deadlock detection can cause a slowdown when numerous threads
 wait for the same lock. At times, it may be more efficient to disable deadlock detection and rely on the
 innodb_lock_wait_timeout setting for transaction rollback when a deadlock occurs.
- The new INFORMATION_SCHEMA.INNODB_CACHED_INDEXES table reports the number of index pages cached in the InnoDB buffer pool for each index.
- InnoDB temporary tables are now created in the shared temporary tablespace, ibtmp1.
- The InnoDB tablespace encryption feature supports encryption of redo log and undo log data. See Redo Log Encryption, and Undo Log Encryption.
- InnoDB supports NOWAIT and SKIP LOCKED options with SELECT ... FOR SHARE and SELECT ... FOR UPDATE locking read statements. NOWAIT causes the statement to return immediately if a requested row is locked by another transaction. SKIP LOCKED removes locked rows from the result set. See Locking Read Concurrency with NOWAIT and SKIP LOCKED.

SELECT ... FOR SHARE replaces SELECT ... LOCK IN SHARE MODE, but LOCK IN SHARE MODE remains available for backward compatibility. The statements are equivalent. However,