

# InnoDB Deadlock Monitoring

The InnoDB deadlock monitor is a little different than the rest of the monitors and require a little additional explanation. Whereas all other monitors are based on the return of `SHOW GLOBAL STATUS`, `SHOW GLOBAL VARIABLES` and `SHOW SLAVE STATUS`, the 'InnoDB deadlock' monitor is based on output from `SHOW ENGINE INNODB STATUS`. This statement differs from the first-mentioned in the sense that it does not return as single discrete value (like a single number), but a rather long string instead with lots of information. From this long string we extract what is related to deadlocks.

With this monitor, it does not make sense to distinguish between 'Current' and 'Delta' timeframes. These timeframes display the same in SQL DM for MySQL:

MONITORS		Tester - 3	TIMEFRAME
		Current	
MONITOR GROUP	MONITORS	Tester - 3	
General Info	New deadlock detected?	Yes	
Security	Latest detected deadlock	Thu Mar 08 2018 06:21:54 PM *** (1) TRANSACTION: TRANSACTION 65927, ACTIVE 15 sec fetching rows mysql tables in use 1, locked 1 LOCK WAIT 3 lock struct(s), heap size 1136, 2 row lock(s) MySQL thread id 37, OS thread handle 139752197326592, query id 5730 10.0.2.2 new Sending data select * from test.innodb_deadlock_maker for update  *** (1) WAITING FOR THIS LOCK TO BE GRANTED: RECORD LOCKS space id 153 page no 3 n bits 72 index PRIMARY of table `test`.`innodb_deadlock_maker` trx id 65927 lock_mode X waiting Record lock, heap no 3 PHYSICAL RECORD: n_fields 3; compact format info bits 0	
Excessive Privileges			
MySQL Logs			
Connection History			
Current Connections			
MyISAM Key Cache			
InnoDB Cache			
InnoDB Deadlocks			
InnoDB Logs			
InnoDB - Others			
Threads			
Table Cache & Locks			
Query Cache			
Index Usage			
Temporary Tables			

- **New Deadlock Detected** indicates if a new deadlock was reported by INNODB STATUS between the last two data retrievals.
- **Latest Deadlock Detected** shows information about the last deadlock detected (if any). To view all deadlock situation that SQL DM for MySQL has information about, use the 'History' timeframe.

There is a limitation with deadlock information returned by `SHOW ENGINE INNODB STATUS` that will also affect SQL DM for MySQL: It returns only information about the last deadlock. So if more than one deadlock has occurred between two data retrievals, SQL DM for MySQL only has information about the latest.