



#1 MySQL 5.7 Goes EOL in October 2023



#2 New Development Process

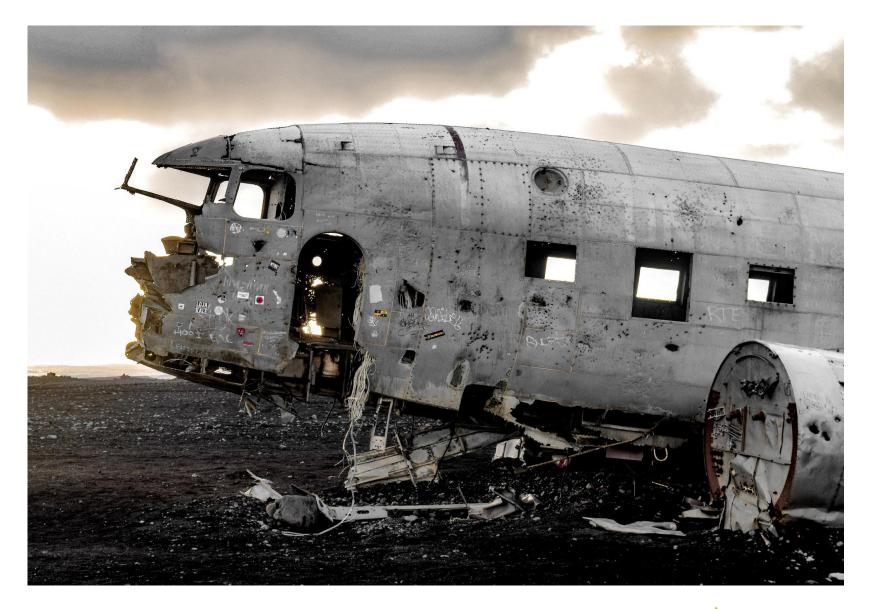
Get new Features Frequently, Rather than once every 2-3 years





#3 Innodb based Data Dictionary

- Atomic, Crash Safe DDLs
- Crash Safe Grants
- Much FasterInformation Schema





#4 More SQL, Better SQL

Window Functions

CTEs (Common Table Expressions)

INTERSECT and EXCEPT

LATERAL JOIN



#5 Better Security

- New Authentication Protocol
- Support for More Authentication Plugins
- Improvements to Transparent Data Encryption (TDE)
- Improvements to TLS
- Roles

#6 UTF8 Default

And Proper (MB4) UTF8 that is!



Functional Indexes

Descending Indexes

Invisible Indexes

Multi Value Indexes (JSON)

Generated Invisible Primary Keys

#7 All Things Indexes



#8 Better JSON Support



#9 Improved Optimizer

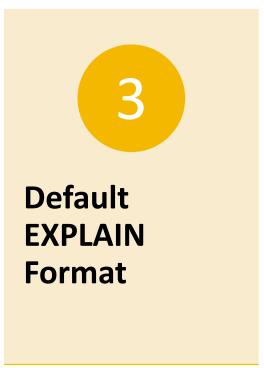
Hash Joins among other things...



#10 Improved EXPLAIN









#11 Better Agility

Much more DDLs supported as ALGORITHM=INSTANT



New way to control MySQL Configuration



#13 Optimizer Hints

Number of new Hints Supported

SET_VAR to set some variables for query duration only



#14 Resource Management

Resource Groups to Prioritize or Restrict CPU Resources for some queries #15 NOWAIT an SKIP_LOCKED

Flexible handling of encountered row level locks



#16 Proper AUTO_INCREMENT

Do not loose Auto Increment Counter value in Edge Cases





Separate Dynamically Sized location for Innodb Undo Space

#18 Undo Space

Separate Location

#19 Double Write

Configurable

Detect Only Option

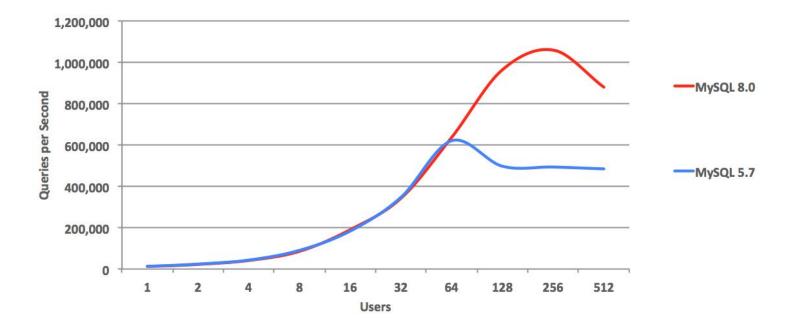


Dynamically Sizable Online

#20 Redo Logs

Can be Disabled for faster data loading

#21 Better Concurrency





#22 User Comments and Attributes

Store Meta-Data about user accounts directly in MySQL

Why not Upgrade to MySQL 8?





Heatwave

Is Oracle re-focusing MySQL Development on Proprietary cloud version only?

New Development Process



- Hard to downgrade
- **Quality Problems**

Performance Performance at low concurrency with simple queries perceived to be lower © Percona

Sharding

No Built In transparent "Scale Out" Option makes developing large scale applications hard



Know Even Better "MySQL"?



Want to know more about

Percona Software

For MySQL?



