22 Reasons to move to MySQL 8

And 4 reasons not to

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Heatwave to melt Snowflake

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#1 MySQL 5.7 Goes EOL in October 2023

#2 New Development Process

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

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#3 Innodb based Data Dictionary

Atomic, Crash Safe DDLs

Crash Safe Grants

Much Faster Information Schema

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#4 More SQL, Better SQL

Window Functions

CTEs (Common Table Expressions)

INTERSECT and EXCEPT

LATERAL JOIN

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#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 !
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#7 All Things Indexes

Functional Indexes

Descending Indexes

Invisible Indexes

Multi Value Indexes (JSON)

Generated Invisible Primary Keys

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#8 Better JSON Support

#9 Improved Optimizer

Hash Joins among other things...

#10 Improved EXPLAIN

1 TREE Format

2 EXPLAIN ANALYZE

3 Default EXPLAIN Format

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#11 Better Agility

Much more DDLs supported as ALGORITHM=INSTANT

#12 SET PERSIST

New way to control MySQL Configuration

#13 Optimizer Hints

Number of new Hints Supported

SET_VAR to set some variables for query duration only

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#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

#17 Temptable Storage Engine

Replaced aging HEAP for In Memory TMP Tables

Supports BLOBS

Separate Dynamically Sized location for Innodb Undo Space

#18 Undo Space

#20 Redo Logs

Dynamically Sizable Online

Can be Disabled for faster data loading

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#21 Better Concurrency

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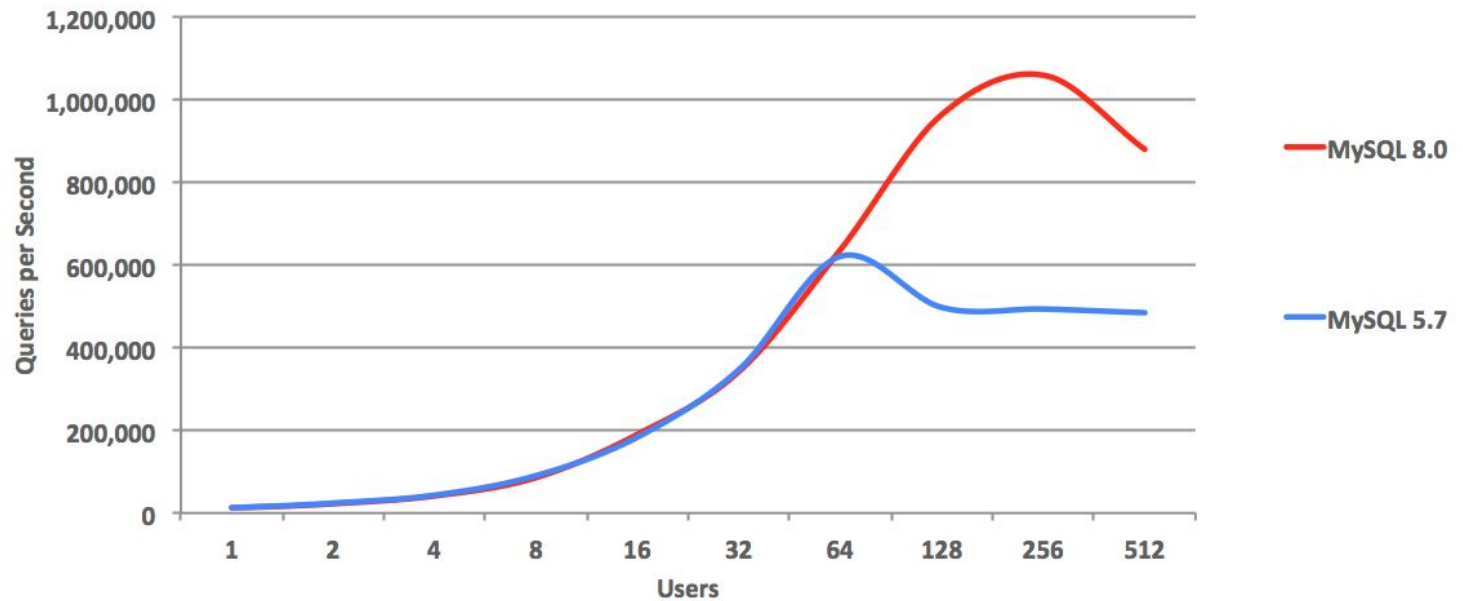
#22 User Comments and Attributes

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

- **Lack of Stability**
- **Hard to downgrade**
- **Quality Problems**

Performance

Performance at low concurrency with simple queries perceived to be lower

Sharding

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

Question

Know Even Better "MySQL" ?

Want to know more about
**Percona Software
For MySQL?**

Thank you, Let's connect!

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