**MySQL Tech Tours** 

# MySQL Integration with NoSQL, Big Data and the Cloud

Ronald Bradford New York & Boston March 2012



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The presentation provides information that is publicly

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available for MySQL 5.6 GA. The content of this presentation has been created by an independent MySQL Expert and is not an official statement of Oracle Corporation or a reflection of any of its employees.

Slides available at http://effectivemysql.com











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- MySQL 5.6 provides
  - NoSQL interface via memcached

  - Accesses existing data (no invalidation issues)
  - MySQL durability and data replication
  - Alternative caching policies

http://dev.mysql.com/doc/refman/5.6/en/innodb-memcached.html



MEMCAG	CHED API
sudo apt-get install libevent-2.0-5	memcached is not required. This is included in the mysql daemon process.
nysql> source \$MYSQL_HOME/share/innodb_memcached_ nysql> install plugin daemon_memcached soname "li nysql> use innodb_memcache nysql> show_tables	<pre>config.sql bmemcached.so";</pre>
Tables_in_innodb_memcache	
cache_policies   config_options   containers	
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	SEARCHING DAT	SEARCHING DAT
SELECT title,line, MATCH(line) AGAINST ('creat FROM test.shakespeare ORDER BY 3 DESC LIMIT 10;	http://www.gutenberg.org/cache/epub/100/pg100.txt ures' in natural language mode) as s	<pre>SELECT * FROM INFORMATION_SCHEMA.INNODB_FT_DEFAULT_STOEWORD; CREATE TABLE user_stopword(value VARCHAR(30)) ENGINE = INNODB; # NOTE / not .</pre>
<pre>  title +   Alls Well That Ends Well + Alls Well That Ends Well   Cymbeline   Cymbeline   Cymbeline   Cymbeline   Cymbeline   Cymbeline   Cymbeline   The Sonnets</pre>	<pre>  line   Li</pre>	<pre>SET GLOBAL innodb_ft_server_stopword_table = "test/user_stopword";</pre>
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# DATA EXCHANGE

- Binary Log API
  - Exposing replication stream for integration
  - 🗣 e.g. Solr Search, Cache management

http://intuitive-search.blogspot.co.uk/2011/07/binary-log-api-and-replication-listener.html https://blogs.oracle.com/MySQL/entry/mysql 5 6 replication new



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### WHAT IS THE CLOUD?

- - ♀ Infrastructure as a Service (laaS)
- Many services extend what the cloud is:
  - Platform as a service (PaaS)
  - Software as a service (SaaS)



# MYSQL /CLOUD FIT

- ♀ Scale Out not Scale Up
  - MySQL was originally designed to run on low cost commodity hardware
- Does not have the bloat of commercial products

















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Email: <u>me@ronaldbradford.com</u> Slides available at <u>http://effectivemysql.com</u>

#### Effective MySQL Performance, Scalability & Business Continuity

