What PostgreSQL could learn from MySQL

The learning continues ...

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PGCon 2008
Main questions

Why get MySQL so popular?

What are they doing to stay popular?

Lets start analysing this ...
Market

Where can you find the most users?

- Windows
- Linux

For what could they need a RDBMS?

- World Wild Web / Intranet
  - PHP
- Private issues
Easy to use
Packaging
Knowledge about basics

- Background
- Entity Relationship Model
- 3NF
- Normalisation
- SQL
- Functions
- Referential Integrity
- Transactions
- Trigger
A database is a structured collection of data.

Una base de datos es una colección estruturada de datos.

Une base de données est un ensemble organisé de données.

Eine Datenbank ist eine strukturierte Sammlung von Daten.
Combination with others

- Agreement with PHP to implement MySQL as default
- LAMP
- Tries to get an agreement with OpenOffice
- Tries to get agreements with others
Users

zero-fill

64 bit

LIMIT

MySQL favour us

Wow! Very friendly

Web Dev.

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Advantages

- No Transactions at MyISAM
  - Mail (Greylisting)
  - Call center (out calls)
  - Games

- No strict error behaviour
  - February, 31\textsuperscript{st}
  - No check of referential integrity
Upgrade version
Backward Compatibility

- Strict mode not default
  - Behaviour of February, 31\textsuperscript{st}
  - Only default on Windows

- Users don't have to change their software
  - Old behaviours won't changed by default

- New options and behaviours can be configured by user
Eierlegende Wollmilchsau
eggs, wool and milk spending pic
Replication / Cluster

- Simple statement based replication
- Simple row based replication
- Simple master <-> master replication
- Simple clustering
- All in only one package
Perfection

- Step by step development
  - Replication
  - Cluster
  - Connectors
  - Other features

- Release before feature is perfect (good enough feature)

- Continuous development
Release

- Release often
- Release early
- Don't try to be perfect
- Fix bugs after release
Nice to have

A good marketing that is able to sell bugs as features
Bug tracking

Bug #36686: comp_err crashes installation
Submitted: 13 May 13:25
Reporter: Susanne Ebrecht — Evaluate
Status: Verified
Category: Server Installing
Version: 5.1.4, 5.0.8
Assigned to: 
Triage: D1 (Critical) / W1 (None) / I3 (Substantial)
Priority: Internal order: 0
Verifiers: Susanne Ebrecht
Reviewers: 
Lead: Daniel Fischer

13 May 13:25 Susanne Ebrecht

Description:
geak2: leaving directory '/usr/home/miracle/mysql55/src/extra'
   ../extra/comp_err
      --charsets/.sql/share/charsets
      --out-dir:.sql/share/
      --header-file:.include/mysqlid_error.h
      --name-file:.include/mysqlid_earnam.h
      --state_file:.include/sql_state.h
      --in_file:.sql/share/errno.txt
geak2: *** [./include/mysqlid_error.h] Segmentation fault: 11 (Spachteinszug erstellt)
geak2: Leaving directory '/usr/home/miracle/mysql55/src/extra'
geak2: *** [all-recurse] Fehler 1

Try to get more informations by using 'make'

make comp_err
comp_err is up to date.
../extra/comp_err --charsets/.sql/share/charsets --out-dir/.sql/share/
   --header-file:.include/mysqlid_error.h --name-file:.include/mysqlid_earnam.h
   --state_file:.include/sql_state.h --in_file:.sql/share/errno.txt

13 May 13:55 Susanne Ebrecht

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OS: FreeBSD 6.0
Target Version:
Warnings

- Don't implement encoding stuff by your own
- Don't stop strong code review
- Stay being such a great community
Closing Words

Thank you ...

MySQL community for helping
to prepare this talk

Josh Berkus for motivating me

Thanks for listening