

Dirk Fahland

2IO71 DBL Information Systems

Tutorial Using Databases Basics



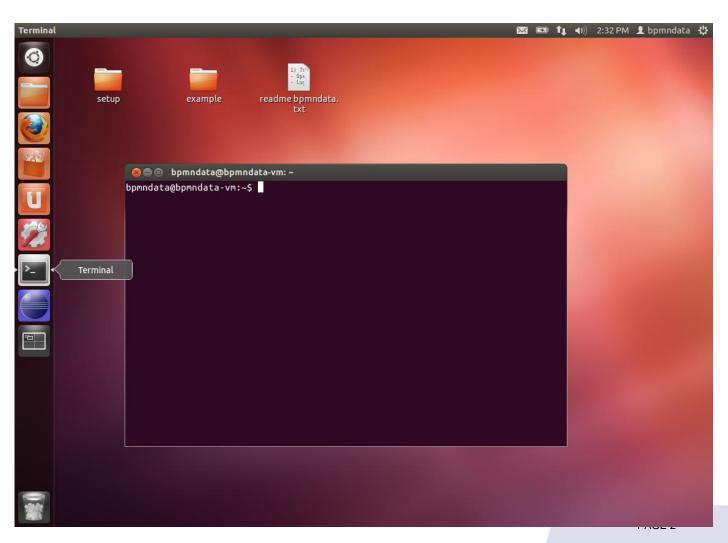


Overview

- 1. Logging into MySQL
- 2. The database of the assignment
- 3. Executing queries on the console
- 4. Technical Information
- 5. Further Tools

Logging into MySQL (1)

Open a terminal window



Logging into MySQL (2)

enter: mysql -u root acme

name of the mysql client program



use database acme

bpmndata@bpmndata-vm:~

bpmndata@bpmndata-vm:~\$ mysql -u root acme
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 43
Server version: 5.5.29-0ubuntu0.12.04.2 (Ubuntu)

Copyright (c) 2000, 2012, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>

command line prompt to execute SQL queries

enter exit; to leave

The Database on the Assignment (1)

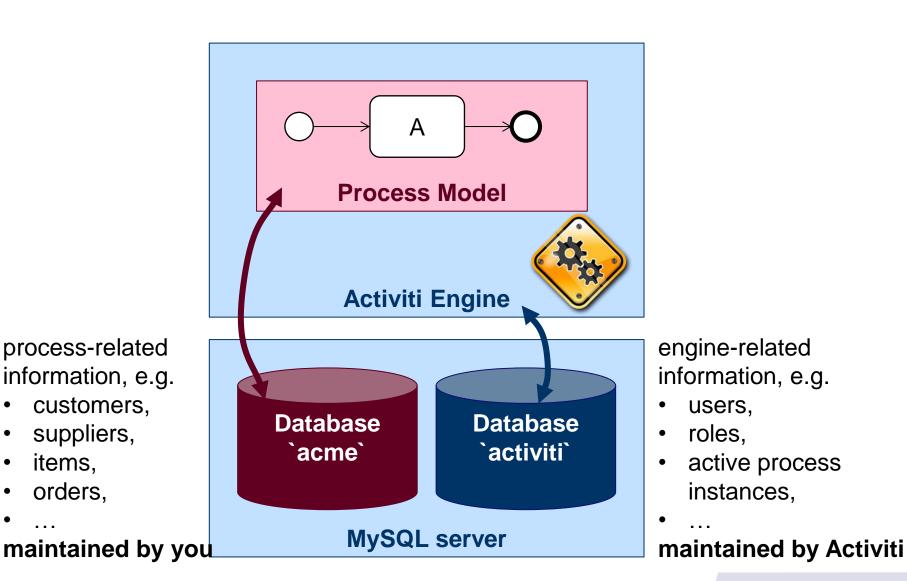
you work on the database `acme`

to see which tables the database has

type: show tables;

you will see 2 tables `log` and `quotes`

The Database on the Assignment (2)



process-related

information, e.g.

customers,

suppliers,

items,

orders,

users,

roles,

active process

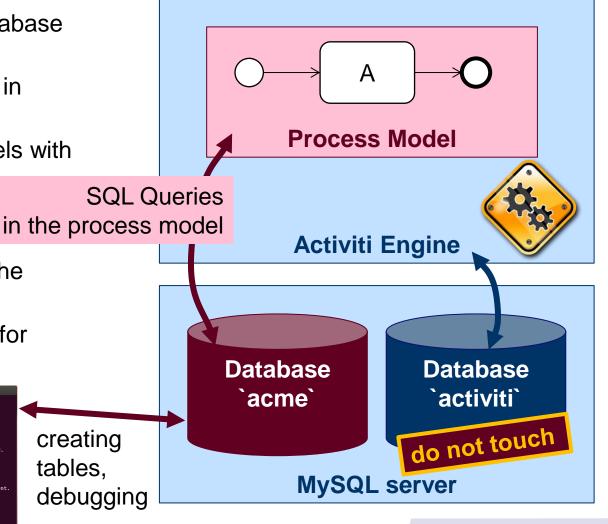
instances,

The Database on the Assignment (3)

- for the assignment you
 - create tables in the database `acme`
 - · create process models in Activiti
 - annotate process models with SQL queries
 - Activiti will automatically execute these queries against the database 'acme'
 - use the mysql console for debugging

@bpmndata-vm:-\$ mysql -u root acme table information for completion of table and column names turn off this feature to get a quicker startup with -A elcome to the MySQL monitor. Commands end with ; or \g our MySQL connection id is 43 rver version: 5.5.29-0ubuntu0.12.04.2 (Ubuntu) opyright (c) 2000, 2012, Oracle and/or its affiliates. All rights reserved. Type 'help:' or '\h' for help. Type '\c' to clear the current input statement

creating tables, debugging



Executing queries on the console (1)

select * from `quotes`;

the backtick ` (above the TAB key) is needed around every name of a table or a column

timestamp automatically

- insert into `quotes` (`id`,`customer`,`item`) values (3,
 "Mr. Miller", "Hammer");
- select * from `quotes`;

Executing queries on the console (2)

- SQL supports the various queries
 - select retrieve information from tables
 - insert insert new rows into a table
 - update change rows in a table
 - delete delete rows from a table
 - create create a table
 - drop delete a table
- use a book on SQL or Google to learn more about these queries
- it is useful to directly look up MySQL tutorials, as different database systems handle some technical aspects differently

Technical Information (1)

the files

```
~/Desktop/setup/db_create_db.sql
~/Desktop/example/db create tables.sql
```

contain the SQL queries that were used to create the database `acme` and its tables

• in case you delete the database or the table `log` you can re-create it by executing the db_create_db.sql scripts:

```
type
    source ~/Desktop/setup/db_create_db.sql;
when you are logged into mysql on the command line
```

Technical Information (2)

Technical Information you won't need this unless you start connecting to the database other than through command line or Activiti

- URL to connect to the database
- user name 'acme_activiti'@'localhost'
- password 'acme_password'

Further Tools

- there exist various tools to explore a database, create tables, show contents in a GUI
 - for example http://www.phpmyadmin.net/
- you can install all kinds of software inside the Virtual Machine to assisst your work
 - see https://help.ubuntu.com/community/phpMyAdmin
 for a tutorial
- when installing software: user 'bpmndata' has password 'bpmndata'



Dirk Fahland

2IO71 **DBL Information Systems**

Good Luck!

