Database System Lab 1

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实验目的

- Initially understand the operating environment of a DBMS by installing a database management system.
- Understand the use of DBMS interactive interface, graphical interface and system management tools.
- Set up an experimental platform

实验平台:

● MySQL (全平台)

网上教程 http://www.runoob.com/mysql/mysql-tutorial.html

实验内容

- 1) 下载并安装 MySQL 数据库
- 2) 以 root 用户登录 MySQL
- 3) 在 MySQL 中新建一个数据库,并查询当前所有数据库名称

实验步骤

(根据实验说明中的实验步骤,将每个步骤中输入的 sql 语句和输出结果截图)

1) MySQL 数据库的下载和安装:

• I downloaded the MySQL installation file corresponding to my operating system on the MySQL official website, and found that the winx86 file package was not available. exe file, you need to

- implement the installation through the command line.
- After storing the file package in the corresponding path, use cmd to open the console, enter the / bin of the corresponding folder, and enter the command: mysqld -install to successfully install.
- After displaying Service successfully installed, Enter net start MySQL could not start the service; then, after consulting the relevant information, you must enter mysqld --initialize.
- A data folder will be generated in the root directory of mysql, which contains a file ending with .err. The initial password is in this file, which will be used later.

2) 登录 **MySQL** 数据库:

- Start the MySQL service: In the bin directory of mysql (at this time in the MySQL bin directory), enter the command net start mysql.
 - The fourth step is to initialize mysql, Type in cmd: mysql-u root -p, enter directly

成功登陆的截图:

```
C:\mysq1-5.7.29-winx64\bin>mysq1 -u root -p
Enter password: *********
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 3
Server version: 5.7.29

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

3) 创建并查询数据库:

Command:

create database

show databases

----Command and output screenshot:

实验感想

1. Many problems were found in the process of using the database:

Database names cannot use pure numbers as file names:

```
mysql> create database 3170100186;
ERROR 1064 (42000): You have an error in your SQL syntax;
```

Without initialization, the database does not work:

C:\mysg1-5.7.29-winx64\bin>net start MySQL

服务没有报告任何错误。

C:\mysq1-5.7.29-winx64\bin>mysq1d --initialize C:\mysq1-5.7.29-winx64\bin>net start mysq1 MySQL 服务正在启动, MySQL 服务已经启动成功。

After changing the password, it cannot be used normally

mysq1> show databases; ERROR 1820 (HY000): You must reset your password using ALTER US

2. Chinese and English will affect the expression of sentences, and a semicolon must be added to the end of each sentence;

ERROR 1064 (42000): You have an error in your SQL syntax; for the right syntax to use near 'mysql> ALTER USER USER