一、创建用户：

A、用 root 用户登录 mysql

```
shell> mysql -uroot –p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 5.7.19-log MySQL Community Server (GPL)

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owners.

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

mysql>
```

B、创建普通用户：

```
mysql> create user 'dfworks'@'%' identified by 'dfworkspwd';
Query OK, 0 rows affected (0.01 sec)
```

创建升级用户：

```
mysql> create user 'dfworks_upgrade'@'localhost' identified by 'dfworks_
upgradepwd';
Query OK, 0 rows affected (0.01 sec)
```

说明：**dfworks** 表示你将创建的用户名,

%指定该用户在哪个主机上可以登陆，此处如果是"localhost"，是指该用户只能在本地登录，不能在另外一台机器上远程登录; 如果想远程登录的话，将"localhost"改为"%"，表示在任何一台电脑上都可以登录; 也可以指定某台机器可以远程登录;

dfworkspwd - 该用户的登陆密码,密码可以为空,如果为空则该用户可以不需要密码登陆服务器。

如果用户创建错了，肯定要支持删除操作，使用命令：

```
mysql> drop user 'dfworks'@'%';
Query OK, 0 rows affected (0.00 sec)
```

C、 创建数据库

```
mysql> create database new_dfworks character set 'utf8' collate
'utf8_general_ci';
Query OK, 1 row affected (0.02 sec)
```

注意：数据库名称不能用"-"，否则在给用户赋权限的时候会报错。

也可删除库

```
mysql> drop database new_dfworks;
Query OK, 0 rows affected (0.10 sec)
```

D、 为新建用户赋权限

授权 dfworks 用户有 dfworks 数据库的某一部分权限：

```
mysql> grant select,update on dfworks.* to dfworks@'%' identified by 'dfwork
spwd';
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

授权 dfworks 用户有 dfworks 数据库的所有操作权限：

```
mysql> grant all privileges on dfworks.* to dfworks@'%' identified by 'dfwor
kspwd';
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

授权 dfworks 用户拥有所有数据库的某些权限：

```
mysql> grant select,delete,update,create,drop on *.* to dfworks@'%' identifi
ed by 'dfworkspwd';
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

privileges - 用户的操作权限,如 select,delete,update,create,drop 等(详细列表可参考 mysql 官方文档，附表 1 是引用的官方文档 5.7 的。)；

如果要授予所有的权限可使用 all（参考第二种授权方式）；

% 表示对所有非本地主机授权，不包括 localhost。

授权成功后刷新下权限

```
mysql> flush privileges;
Query OK, 0 rows affected (0.01 sec)
```

刷新权限后可以查看当前用户权限或者指定的用户权限

```
mysql> show grants;
+--------------------------------------------------------------+
| Grants for root@%                                            |
+--------------------------------------------------------------+
| GRANT ALL PRIVILEGES ON *.* TO 'root'@'%' WITH GRANT OPTION |
+--------------------------------------------------------------+
1 row in set (0.00 sec)

mysql> show grants for allp;
+---------------------------------------------------+
| Grants for allp@%                                 |
+---------------------------------------------------+
| GRANT ALL PRIVILEGES ON *.* TO 'allp'@'%'         |
| GRANT ALL PRIVILEGES ON `allp_db`.* TO 'allp'@'%' |
+---------------------------------------------------+
2 rows in set (0.00 sec)
```

查看指定用户的权限

```
mysql> show grants for dfworks;
```

删除指定用户的指定权限

```
mysql> revoke select ON new_dfworks.* FROM dfworks@'%';
```

附表 1

Privilege	Meaning and Grantable Levels
ALL [PRIVILEGES]	Grant all privileges at specified access level except GRANT OPTION
ALTER	Enable use of ALTER TABLE. Levels: Global, database, table.
ALTER ROUTINE	Enable stored routines to be altered or dropped. Levels: Global, database, procedure.
CREATE	Enable database and table creation. Levels: Global, database, table.
CREATE ROUTINE	Enable stored routine creation. Levels: Global, database.
CREATE TABLESPACE	Enable tablespaces and log file groups to be created, altered, or dropped. Level: Global.
CREATE TEMPORARY TABLES	Enable use of CREATE TEMPORARY TABLE. Levels: Global, database.
CREATE USER	Enable use of CREATE USER, DROP USER, RENAME USER, and REVOKE ALL PRIVILEGES. Level: Global.

Privilege	Meaning and Grantable Levels
CREATE VIEW	Enable views to be created or altered. Levels: Global, database, table.
DELETE	Enable use of **DELETE**. Level: Global, database, table.
DROP	Enable databases, tables, and views to be dropped. Levels: Global, database, table.
EVENT	Enable use of events for the Event Scheduler. Levels: Global, database.
EXECUTE	Enable the user to execute stored routines. Levels: Global, database, table.
FILE	Enable the user to cause the server to read or write files. Level: Global.
GRANT OPTION	Enable privileges to be granted to or removed from other accounts. Levels: Global, database, table, procedure, proxy.
INDEX	Enable indexes to be created or dropped. Levels: Global, database, table.
INSERT	Enable use of **INSERT**. Levels: Global, database, table, column.
LOCK TABLES	Enable use of **LOCK TABLES** on tables for which you have the **SELECT** privilege. Levels: Global, database.
PROCESS	Enable the user to see all processes with **SHOW PROCESSLIST**. Level: Global.
PROXY	Enable user proxying. Level: From user to user.
REFERENCES	Enable foreign key creation. Levels: Global, database, table, column.
RELOAD	Enable use of **FLUSH** operations. Level: Global.
REPLICATION CLIENT	Enable the user to ask where master or slave servers are. Level: Global.
REPLICATION SLAVE	Enable replication slaves to read binary log events from the master. Level: Global.
SELECT	Enable use of **SELECT**. Levels: Global, database, table, column.
SHOW DATABASES	Enable **SHOW DATABASES** to show all databases. Level: Global.
SHOW VIEW	Enable use of **SHOW CREATE VIEW**. Levels: Global, database, table.
SHUTDOWN	Enable use of **mysqladmin shutdown**. Level: Global.
SUPER	Enable use of other administrative operations such as **CHANGE MASTER TO**, **KILL**, **PURGE BINARY LOGS**, **SET GLOBAL**, and **mysqladmin debug** command. Level: Global.
TRIGGER	Enable trigger operations. Levels: Global, database, table.
UPDATE	Enable use of **UPDATE**. Levels: Global, database, table, column.
USAGE	Synonym for "no privileges"

其它操作：

A、备份 mysql（shell 命令行下执行）：

```
shell> mysqldump -uroot -p dfworks>/home/root/dfworks.sql
Enter password:
```

备份数据库的指定表的结构和数据：
mysqldump dfworks -uroot -p --tables user_info project >e:/aaa.sql

备份数据库，除指定的表除外：
mysqldump dfworks --ignore-table dfworks.user_info --ignore-table dfworks.project -uroot -p >
e:/aaa.sql

备份指定的多个数据库的表结构和数据：
mysqldump --databases airflow dfworks -uroot -p > e:/aaa.sql

还原 mysql（mysql 命令行下执行）：

i.   登录 mysql：**mysql   -uroot –p**

ii.   切换到需要还原的数据库：**use new_dfworks;**

```
mysql> use new_dfworks;
Database changed
```

iii. 执行还原的命令：**source /home/root/dfworks.sql**

```
mysql> source /home/dfworks.sql
Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)
```

```
Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)
```

获取当前时间：

```
mysql> select now();
+---------------------+
| now()               |
+---------------------+
| 2018-07-30 17:25:31 |
+---------------------+
1 row in set (0.01 sec)
```

查看版本号:

```
mysql> select version();
+------------+
| version()  |
+------------+
| 5.7.19-log |
+------------+
1 row in set (0.01 sec)
```

或

```
shell> mysql -V
mysql  Ver 14.14 Distrib 5.7.19, for linux-glibc2.12 (x86_64) using  EditLine
wrapper
```

或

```
mysql> status
--------------
mysql  Ver 14.14 Distrib 5.7.19, for linux-glibc2.12 (x86_64) using  EditLin
e wrapper

Connection id:          29
Current database:       dfworks
Current user:           root@localhost
SSL:                    Not in use
Current pager:          stdout
Using outfile:          ''
Using delimiter: ;
Server version:         5.7.19-log MySQL Community Server (GPL)
Protocol version:       10
Connection:             Localhost via UNIX socket
Server characterset:    utf8mb4
Db     characterset:    utf8
Client characterset:    utf8
Conn.  characterset:    utf8
UNIX socket:            /opt/mysql/mysql-5.7.19-linux-glibc2.12-x86_64/run
/mysql.sock
Uptime:                 5 days 7 hours 7 min 52 sec

Threads: 1  Questions: 175  Slow queries: 0  Opens: 169  Flush tables: 1  Ope
n tables: 162  Queries per second avg: 0.000
--------------
```

或

```
mysql> show variables like "%version%";
+-----------------------+-----------------------------+
| Variable_name         | Value                       |
+-----------------------+-----------------------------+
| innodb_version        | 5.7.19                      |
| protocol_version      | 10                          |
| slave_type_conversions |                            |
| tls_version           | TLSv1,TLSv1.1               |
```

```
| version                 | 5.7.19-log                |
| version_comment         | MySQL Community Server (GPL) |
| version_compile_machine | x86_64                    |
| version_compile_os      | linux-glibc2.12           |
+-------------------------+---------------------------+
8 rows in set (0.02 sec)
```

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