


实验 用户和权限

1、用户管理

(1)以 root 用户登录，创建用户 user_1 和 user_2，密码都设为 1234。

```
create user user_1@'localhost' identified by '1234',  
user_2@'localhost' identified by '1234';
```




Local instance 3306
Users and Privileges

User Accounts

User	From Host
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost
user_1	localhost
user_2	localhost

(2)将用户 user_2 的名称修改为 user_3。

```
rename user user_2@'localhost' to user_3@'localhost';
```



Local instance 3306
Users and Privileges

User Accounts

User	From Host
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost
user_1	localhost
user_3	localhost

(3)将用户 user_3 的密码修改为 123456。

```
alter user user_3@'localhost' identified by '123456';
```

(4)删除用户 user_3。

```
drop user user_3@'localhost';
```



Local instance 3306

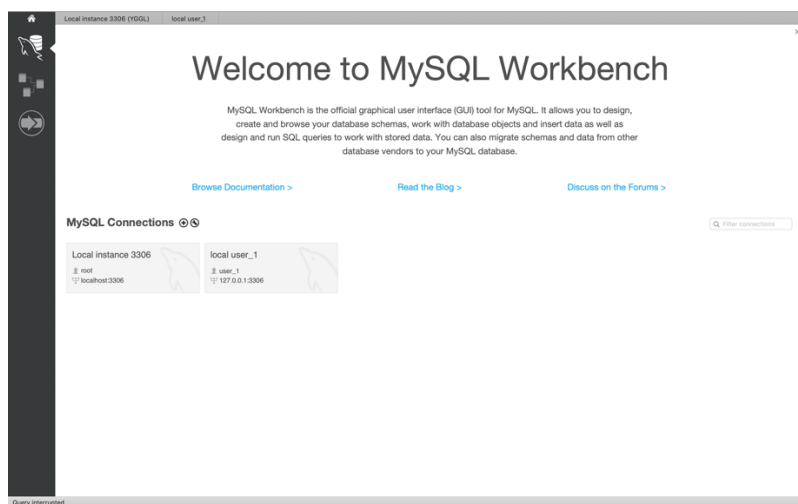
Users and Privileges

User Accounts

User	From Host
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost
user_1	localhost

(5)以 user_1 用户登录，切换到 mydb 数据库。

```
use mydb;
```

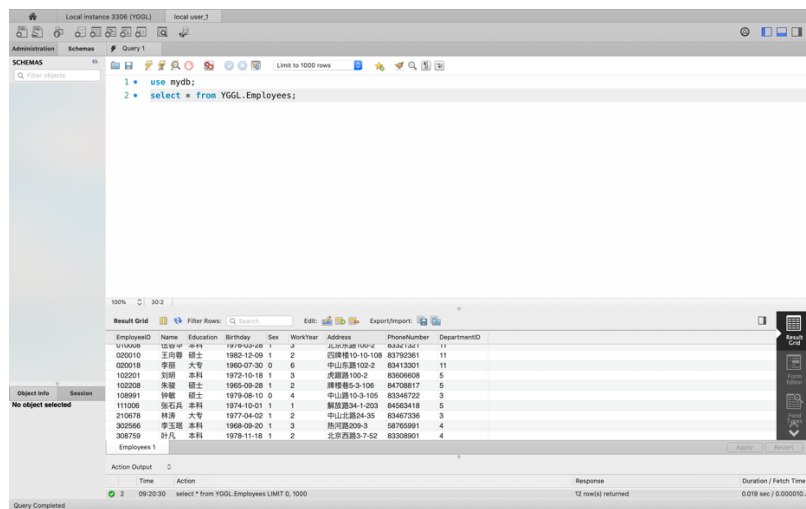


2、权限管理

(1)切换到 root 用户，授予用户 user_1 对 YGGL 数据库 Employees 表的查询操作权限。

(root 用户下) `grant select on YGGL.Employees to user_1@'localhost';`

(user_1 用户下) `select * from YGGL.Employees;`



(2)切换到 user_1 用户, 查询 YGGL 数据库 Employees 表的数据;往 Employees 表插入一条员工数据。

```
insert into YGGL.Employees values('000000','王','大专','1966-1-20',1,8,'中山路','88888888','2');
```

Error Code: 1142. INSERT command denied to user 'user_1'@'localhost' for table 'employees' 0.00091 sec

(3)切换到 root 用户, 授予用户 user_1 对 YGGL 数据 Employees 表的插入、修改、删除操作权限, 显示用户 user_1 的权限。

```
grant delete, insert, update on YGGL.Employees to user_1@'localhost';
```

```
show grants for user_1@'localhost';
```

Grants for user_1@localhost	
▶	GRANT USAGE ON *.* TO `user_1`@`localhost`
	GRANT SELECT, INSERT, UPDATE, DELETE ON `yggl`.`employees` TO `user_1`@`localhost`

(4)切换到 user_1 用户, 重复(2)中的操作。

```
insert into YGGL.Employees values('000000','王','大专','1966-1-20',1,8,'中山路','88888888','2');
```

EmployeeID	Name	Education	Birthday	Sex	WorkYear	Address	PhoneNumber	DepartmentID
▶ 000000	王	大专	1966-01-20	1	8	中山路	88888888	2
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

(5)切换到 root 用户, 撤销用户 user_1 对 Employees 表的 select 权限。

```
revoke select on YGGL.Employees from user_1@'localhost';
```

(6)切换到 user_1 用户, 查询 Employees 表中的数据。

```
select * from Employees;
```

EmployeeID	Name	Education	Birthday	Sex	WorkYear	Address	PhoneNumber	DepartmentID
▶ 000000	王	大专	1966-01-20	1	8	中山路	88888888	2
000001	王林	大专	1966-01-23	1	8	中山路32-1-508	83355668	2
010008	伍容华	本科	1976-03-28	1	3	北京东路100-2	83321321	11
020010	王向蓉	硕士	1982-12-09	1	2	四牌楼10-10-108	83792361	11
020018	李丽	大专	1960-07-30	0	6	中山东路102-2	83413301	11

出现了在 user_1 添加的记录。

(7)切换到 root 用户, 撤销用户 user_1 的所有权限。

```
revoke all privileges, grant option from user_1@'localhost';
```

3、角色管理

创建用户 user_3 和 user_4, 密码设为 1234;创建角色 db_read 和 db_write, 分别授予对 YGGL 数据库的 select 权限和 insert、update、delete、select 权限; 分别为 user_3 和 user_4 分配 db_read 和 db_write 权限, 并对 user_3 和 user_4 的权限进行检验。

```
create user user_3@'localhost' identified by '1234',
```

```
user_4@'localhost' identified by '1234';
```

```
drop role if exists db_read,db_write;
```

```
create role db_read,db_write;
```

```
grant select on YGGL.* to db_read;
```

```
grant select, insert, update, delete on YGGL.* to db_write;
```

```
grant db_read to user_3@'localhost';
```

```
grant db_write to user_4@'localhost';
```

```
set default role db_read to user_3@'localhost';
```

```
set default role db_write to user_4@'localhost';
```

Local Instance 3306 (YGGL) user3

Query 1

```
1 • select * from YGGL.Employees;
```

Result Grid

EmployeeID	Name	Education	Birthday	Sex	WorkYear	Address	PhoneNumber	DepartmentID
000000	王林	大专	1966-01-23	1	6	中山路32-1-508	83355668	2
010008	张明华	本科	1976-03-28	1	3	北京东路100-2	83321321	11
020010	王向群	硕士	1980-12-09	1	2	西康路10-10-108	83762381	11
020018	李强	大专	1980-07-30	0	6	中山东路102-2	83413301	11
102201	刘强	本科	1972-10-18	1	3	北康路105-2	83609058	5
102208	吴强	硕士	1965-09-28	1	2	南康路5-5-106	84708817	5

Action Output

Time	Action	Response	Duration / Fetch Time
10:11:56	select * from YGGL.Employees LIMIT 0, 1000	13 row(s) returned	0.00081 sec / 0.000...

Local Instance 3306 (YGGL) user4

Query 1

```
1 • delete from YGGL.Employees where EmployeeID=000000;
2 • select * from YGGL.Employees;
3
```

Result Grid

EmployeeID	Name	Education	Birthday	Sex	WorkYear	Address	PhoneNumber	DepartmentID
010008	张明华	本科	1976-03-28	1	3	北京东路100-2	83321321	11
020010	王向群	硕士	1980-12-09	1	2	西康路10-10-108	83762381	11
020018	李强	大专	1980-07-30	0	6	中山东路102-2	83413301	11
102201	刘强	本科	1972-10-18	1	3	北康路105-2	83609058	5
102208	吴强	硕士	1965-09-28	1	2	南康路5-5-106	84708817	5

Action Output

Time	Action	Response	Duration / Fetch Time
10:12:46	delete from YGGL.Employees where EmployeeID=000000	1 row(s) affected	0.011 sec
10:12:46	select * from YGGL.Employees LIMIT 0, 1000	Error Code: 1048: No database selected Select the db.	0.00048 sec
10:13:11	select * from YGGL.Employees LIMIT 0, 1000	12 row(s) returned	0.00033 sec / 0.000...

Query Completed