

admin

mysql

```
1  mysql --help
2  mysql -?
3  mysql --version
4  mysql -V
5  mysql -h[host] -uroot -p -P[port]
6
```

mysqld

```
1  mysqld --verbose --help
2  mysqld --version
3  mysqld -V
4
```

mysqladmin

```
1  mysqladmin --help
```

mysqldump

```
1  mysqldump -uroot -p database > database.sql
2  mysql -uroot -p database < database.sql
3
```

mysql

```
1  help
2  status;
3  use databases
4  show databases;
5  show tables;
6  desc table;
7  /*
8  describe table;
9  show columns from table;
10 */
11 show status;
```

```
12 show create database;
13 show create table;
14 show grants;
15 show errors;
16 show warnings;
17 help show;
18 show variables like pattern
```

```
1 3中注释方法
2 # select
3 -- select
4 /*
5 select
6 */
7
```

```
1 # 函数
2 1 select version();
3 2 select database();
4
5
```

information_schema

```
1 # 事务表
2 innodb_trx
3 # 进程表
4 processlist
5
```

Chapter 3 Tutorial

3.5在批处理模式下使用mysql

在前面的部分中，您以交互方式使用[mysql](#)输入语句并查看结果。您也可以以批处理模式运行[mysql](#)。为此，将要运行的语句放在文件中，然后告诉 [mysql](#)从文件中读取其输入：

```
1 shell> mysql < batch-file
```

如果您在Windows下运行[mysql](#)并在文件中包含一些导致问题的特殊字符，则可以执行以下操作：

```
1 C:\> mysql -e "source batch-file"
```

如果需要在命令行上指定连接参数，则命令可能如下所示：

```
1 shell> mysql -h host -u user -p < batch-file
2 Enter password: *****
```

当您以这种方式使用[mysql](#)时，您将创建一个脚本文件，然后执行该脚本。

如果您希望脚本继续运行，即使其中的某些语句产生错误，也应使用 [--force](#) 命令行选项。

为什么要使用脚本？原因如下：

- 如果您反复（例如每天或每周）运行查询，将其设置为脚本可以避免每次执行时都重新键入查询。
- 您可以通过复制和编辑脚本文件从相似的现有查询中生成新查询。
- 在开发查询时，批处理模式也很有用，特别是对于多行语句或多语句序列。如果输入有误，则无需重新输入所有内容。只需编辑脚本以更正错误，然后告诉[mysql](#)重新执行即可。
- 如果您的查询产生大量输出，则可以通过寻呼机运行输出，而不用看着它滚动到屏幕顶部之外：

```
1 shell> mysql < batch-file | more
```

- 您可以将输出捕获到文件中以进行进一步处理：

```
1 shell> mysql < batch-file > mysql.out
```

- 您可以将脚本分发给其他人，以便他们也可以运行这些语句。
- 在某些情况下，例如，当您从[cron](#)作业运行查询时，不允许进行交互使用。在这种情况下，您必须使用批处理模式。

在批处理模式下运行[mysql](#)时，与以交互方式使用时，默认输出格式不同（更简洁）。例如，以交互方式运行[mysql](#) `SELECT DISTINCT species FROM pet` 时，输出如下所示：

```
1 +-----+
2 | species |
3 +-----+
4 | bird   |
5 | cat    |
6 | dog    |
7 | hamster|
8 | snake  |
9 +-----+
```

在批处理模式下，输出看起来像这样：

```
1 species
2 bird
3 cat
4 dog
5 hamster
6 snake
```

如果要以批处理方式获取交互式输出格式，请使用[mysql-t](#)。要将执行的语句回显到输出，请使用[mysql-v](#)。

您还可以通过使用以下命令，从[mysql](#)提示符中使用脚本：`source ``\.`

```
1 mysql> source filename;
2 mysql> \. filename
```

有关更多信息，请参见[第4.5.1.5节“从文本文件执行SQL语句”](#)。

经验

特殊用法

```
1 select 'CA20181110683' % 4;
2 select null % 4;
3 select now();
4 select '2' + 1;
5 select substr('FA2019071001-2022-02', 4, 9);
6
7 select
8 project_no, @n:=@n+1
9 -- *
10 from sync_project_info, (select @n:=0) a;
11
12 # 联表更新
13 update tech_develop_basic dev inner join tech_develop_technical_achievements am on
    dev.pro_code = am.project_id
14 set am.project_id = dev.id;
```

sql注入

```
1 # sql注入
2 (select*from(select+sleep(5)union/**/select+1)a);
3 select*from(select+sleep(5)union/**/select+1)a;
4 select+sleep(5) union 1;
5 (select+concat("q",sleep(3)));
```

流程控制

```
1 select * from cooperation_projects_clean
2 where
3 project_code = case substr(project_code, 4, 9) % 4
4 when 0 then project_code
5 end;
6
7 # 更新指定行的数据; 优化方案: 在set的时候就判断
8 update cooperation_projects_clean
9 set project_manager = '钟马俊', project_manager_id = 'zwx996578', partner_manager =
  '钟马俊', partner_manager_id = 'zwx996578'
10 where
11 project_code = case substr(project_code, 4, 9) % 4
12 when 3 then project_code
13 end;
```

```
1 select *
2 from coop_resource_tech_domain_config
3 where
4 case `level` regexp '~'
5 when 0 then `level` = 'L1'
6 when 1 then 'L1' between left(`level`, 2) and right(`level`, 2)
7 end
8 order by `level`;
9
10 select *
11 from coop_resource_tech_domain_config
12 where 'L1' between left(`level`, 2) and right(`level`, 2)
13 order by `level`;
```

事件

```
1 # 事件
2 SHOW VARIABLES LIKE 'event_scheduler';
3 SET GLOBAL event_scheduler = ON;
4
5 begin
6     update sync_project_info
7     set prj_manager = 'gaojuanjuan WX1209019'
8     where
9     project_no = case project_no % 4
```

```
10     when 0 then project_no
11     end;
12
13     update sync_project_info
14     set prj_manager = 'liaoxiaobo WX1208242'
15     where
16     project_no = case project_no % 4
17     when 1 then project_no
18     end;
19
20     update sync_project_info
21     set prj_manager = 'taoxingyu WX1123125'
22     where
23     project_no = case project_no % 4
24     when 2 then project_no
25     end;
26
27     update sync_project_info
28     set prj_manager = 'zhongmajun WX996578'
29     where
30     project_no = case project_no % 4
31     when 3 then project_no
32     when null then project_no
33     end;
34
35     update clear_project_info
36     set prj_manager = 'gaojuanjuan WX1209019', prj_manager_cn = '高娟娟 WX1209019'
37     where
38     project_no = case project_no % 4
39     when 0 then project_no
40     end;
41
42     update clear_project_info
43     set prj_manager = 'liaoxiaobo WX1208242', prj_manager_cn = '廖小波 WX1208242'
44     where
45     project_no = case project_no % 4
46     when 1 then project_no
47     end;
48
49     update clear_project_info
50     set prj_manager = 'taoxingyu WX1123125', prj_manager_cn = '陶星宇 WX1123125'
51     where
52     project_no = case project_no % 4
53     when 2 then project_no
54     end;
55
56     update clear_project_info
57     set prj_manager = 'zhongmajun WX996578', prj_manager_cn = '钟马俊 WX996578'
58     where
59     project_no = case project_no % 4
60     when 3 then project_no
61     when null then project_no
62     end;
```

```
63 end
64
65
```

存储过程

```
1
2 create procedure permission(in uid1 varchar(50), in uid2 varchar(50), in uid3
  varchar(50), in uid4 varchar(50), in line varchar(10))
3 begin
4
5  -- 超管
6  declare a int;
7  -- 技术项目规划-管理员
8  declare b1 int;
9  declare b2 int;
10 -- 技术合作项目-管理员
11 declare c1 int;
12 declare c2 int;
13 -- 技术开发项目-管理员
14 declare d1 int;
15 declare d2 int;
16 -- 根技术
17 declare e1 int;
18 declare e2 int;
19 -- 个人中心
20 declare f1 int;
21 declare f2 int;
22
23 -- 超管
24 select id into a from person_role_relation where role_id = 10 and huawei_id regexp
  uid1 and project_id = 'all' and module = 'idea' and product_line = line;
25 if a then
26     update person_role_relation set huawei_id = uid2, product_line = line where id =
  a;
27 else
28     insert into person_role_relation(role_id, huawei_id, project_id, module,
  product_line) values (10, uid2, 'all', 'idea', line);
29 end if;
30
31 -- 技术项目规划-管理员
32 select id into b1 from personnel_config where huawei_id regexp uid1 and project_id =
  'pre_tpp_1000000001' and module = 'technology_project_planing' and product_line =
  line;
33 if b1 then
34     update personnel_config set huawei_id = uid2, product_line = line where id = b1;
35 else
36     insert into personnel_config(huawei_id, project_id, module, product_line,
  is_hand, account, cn, department_tree, source, is_show) values
37     (uid2, 'pre_tpp_1000000001', 'technology_project_planing', line, 1, uid3, uid4,
```

```

'计算可信使能与IT装备部', '手工录入', 0);
38 end if;
39 select id into b2 from person_role_relation where role_id = 94 and huawei_id regexp
uid1 and project_id = 'pre_tpp_1000000001' and module = 'technology_project_planing'
and product_line = line;
40 if b2 then
41     update person_role_relation set huawei_id = uid2, product_line = line where id =
b2;
42 else
43     insert into person_role_relation(role_id, huawei_id, project_id, module,
product_line) values (94, uid2, 'pre_tpp_1000000001', 'technology_project_planing',
line);
44 end if;
45
46 -- 技术合作项目-管理员
47 select id into c1 from personnel_config where huawei_id regexp uid1 and project_id =
'pre_tcp_1000000003' and module = 'technology_cooperation_project' and product_line
= line;
48 if c1 then
49     update personnel_config set huawei_id = uid2, product_line = line where id = c1;
50 else
51     insert into personnel_config(huawei_id, project_id, module, product_line,
is_hand, account, cn, department_tree, source, is_show) values
52 (uid2, 'pre_tcp_1000000003', 'technology_cooperation_project', line, 1, uid3,
uid4, '计算可信使能与IT装备部', '手工录入', 0);
53 end if;
54 select id into c2 from person_role_relation where role_id = 61 and huawei_id regexp
uid1 and project_id = 'pre_tcp_1000000003' and module =
'technology_cooperation_project' and product_line = line;
55 if c2 then
56     update person_role_relation set huawei_id = uid2, product_line = line where id =
c2;
57 else
58     insert into person_role_relation(role_id, huawei_id, project_id, module,
product_line) values (61, uid2, 'pre_tcp_1000000003',
'technology_cooperation_project', line);
59 end if;
60
61 -- 技术开发项目-管理员
62 select id into d1 from personnel_config where huawei_id regexp uid1 and project_id =
'1000000010' and module = 'tech_project_module' and product_line = line;
63 if d1 then
64     update personnel_config set huawei_id = uid2, product_line = line where id = d1;
65 else
66     insert into personnel_config(huawei_id, project_id, module, product_line,
is_hand, account, cn, department_tree, source, is_show) values
67 (uid2, '1000000010', 'tech_project_module', line, 1, uid3, uid4, '计算可信使能与IT
装备部', '手工录入', 0);
68 end if;
69 select id into d2 from person_role_relation where role_id = 95 and huawei_id regexp
uid1 and project_id = '1000000010' and module = 'tech_project_module' and
product_line = line;
70 if d2 then

```



```

71     update person_role_relation set huawei_id = uid2, product_line = line where id =
    d2;
72 else
73     insert into person_role_relation(role_id, huawei_id, project_id, module,
    product_line) values (95, uid2, '1000000010', 'tech_project_module', line);
74 end if;
75
76 -- 根技术-管理员
77 select id into e1 from personnel_config where huawei_id regexp uid1 and project_id =
    '1000000021' and module = 'root_tech' and product_line = line;
78 if e1 then
79     update personnel_config set huawei_id = uid2, product_line = line where id = e1;
80 else
81     insert into personnel_config(huawei_id, project_id, module, product_line,
    is_hand, account, cn, department_tree, source, is_show) values
82     (uid2, '1000000021', 'root_tech', line, 1, uid3, uid4, '计算可信使能与IT装备部', '手
    工录入', 0);
83 end if;
84 select id into e2 from person_role_relation where role_id = 2101 and huawei_id
    regexp uid1 and project_id = '1000000021' and module = 'root_tech' and product_line
    = line;
85 if e2 then
86     update person_role_relation set huawei_id = uid2, product_line = line where id =
    e2;
87 else
88     insert into person_role_relation(role_id, huawei_id, project_id, module,
    product_line) values (2101, uid2, '1000000021', 'root_tech', line);
89 end if;
90
91 -- 个人中心-领导
92 select id into f1 from personnel_config where huawei_id regexp uid1 and project_id =
    '1000000061' and module = 'innovation_personal_center' and product_line = line;
93 if f1 then
94     update personnel_config set huawei_id = uid2, product_line = line where id = f1;
95 else
96     insert into personnel_config(huawei_id, project_id, module, product_line,
    is_hand, account, cn, department_tree, source, is_show) values
97     (uid2, '1000000061', 'innovation_personal_center', line, 1, uid3, uid4, '计算可信
    使能与IT装备部', '手工录入', 0);
98 end if;
99 select id into f2 from person_role_relation where role_id = 2101 and huawei_id
    regexp uid1 and project_id = '1000000061' and module = 'innovation_personal_center'
    and product_line = line;
100 if f2 then
101     update person_role_relation set huawei_id = uid2, product_line = line where id =
    f2;
102 else
103     insert into person_role_relation(role_id, huawei_id, project_id, module,
    product_line) values (2101, uid2, '1000000061', 'innovation_personal_center', line);
104 end if;
105
106 -- 示例
107 -- call permission('wx996578', 'zhongmajun wx996578', 'zwx996578', '钟马俊 wx996578',

```

```
'045969');  
108 end
```

```
1 CREATE DEFINER=`root`@`%` PROCEDURE `person_center`(IN user_id varchar(30))  
2 BEGIN  
3  
4 select  
5 (  
6 select count(*) from idea_discussion_topic where creator = user_id and draft = 0 and  
product_line = '045969'  
7 ) 发表文章数,  
8  
9 (  
10 select count(*) from idea_discussion_topic idt inner join idea_discussion_collection  
idc  
11 on idt.product_line = '045969' and idt.creator != user_id and idt.topic_id =  
idc.topic_id and idc.user_id = user_id  
12 ) 收藏文章数,  
13  
14 (  
15 -- 以前的逻辑  
16 -- select count(distinct ida.topic_id) from idea_discussion_topic idt inner join  
idea_discussion_answer ida  
17 -- on idt.product_line = '045969' and idt.topic_id = ida.topic_id and ida.creator =  
user_id  
18 -- 现在的逻辑  
19 select count(distinct idt.topic_id) from idea_discussion_topic idt  
20 left join idea_discussion_answer ida on idt.product_line = '045969' and idt.topic_id  
= ida.topic_id and ida.creator = user_id  
21 left join t_tech_exchange_topic_like tl on idt.topic_id = tl.topic_id and tl.user_id  
= user_id  
22 where ida.id is not null or tl.id is not null  
23 ) 参与文章,  
24  
25 (  
26 select count(*) from idea_discussion_topic where creator = user_id and draft = 1 and  
product_line = '045969'  
27 ) 草稿;  
28  
29 END
```