

????

????a) ???

MySQL

```
# MySQL 5.7
select * from mysql.user where length(authentication_string) = 0 or authentication_string is null;
```

```
mysql> select * from mysql.user where length(authentication_string)=0 or authentication_string is null;
Empty set (0.03 sec)
```

查询结果为空，表明不存在

MySQL

validate_password

```
# validate_password MySQL 5.7
select * from information_schema.plugins where plugin_name = 'validate_password';

# validate_password MySQL 8.0.2
select * from mysql.component;

# MySQL
show variables LIKE 'validate_password%';
```

validate_password MySQL 5.7

```
mysql> SELECT * FROM information schema.plugins
-> WHERE plugin_name = 'validate_password';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| PLUGIN_NAME | PLUGIN_VERSION | PLUGIN_STATUS | PLUGIN_TYPE | PLUGIN_TYPE_VERSION | PLUGIN_LIBRARY | PLUGIN_LIBRARY_VERSION | PLUGIN_AUTHOR | PLUGIN_DESCRIPTION | PLUGIN_LICENSE | LOAD_OPTION |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| validate_password | 1.1 | ACTIVE | VALIDATE PASSWORD | 1.0 | validate_password.so | 1.10 | Oracle Corporation | check password strength | GPL | ON |
```

validate_password MySQL 8.0.2

```
mysql> SELECT * FROM mysql.component;
+-----+-----+-----+
| component_id | component_group_id | component_urn |
+-----+-----+-----+
| 1 | 1 | file://component_validate_password |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> SHOW VARIABLES LIKE 'validate_password%';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| validate_password.check_user_name | ON |
| validate_password.dictionary_file | |
| validate_password.length | 8 |
| validate_password.mixed_case_count | 1 |
| validate_password.number_count | 1 |
| validate_password.policy | MEDIUM |
| validate_password.special_char_count | 1 |
+-----+-----+
7 rows in set (0.01 sec)
```

MySQL

MySQL



```
# MySQL
show variables like 'default_password_lifetime';

# MySQL 5.7
select user, host, password_last_changed, password_lifetime from mysql.user;

# MySQL 8.0
select user, host, password_last_changed,
password_lifetime,password_expired,password_reuse_history,password_reuse_time from mysql.user;
```

```
mysql> show variables like 'default_password_lifetime';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| default_password_lifetime | 0 |
+-----+-----+
1 row in set (0.00 sec)
```



MySQL 5.7

```
1 select user, host, password_last_changed, password_lifetime,password_expired from mysql.user;
```

信息	摘要	结果 1	剖析	状态
user	host	password_last_changed	password_lifetime	password_expired
root	localhost	2025-07-30 09:44:01	(Null)	N
mysql.session	localhost	2023-05-06 16:15:18	(Null)	N
mysql.sys	localhost	2023-05-06 16:15:18	(Null)	N
		2024-08-20 17:24:30	(Null)	N
		2024-08-20 17:26:54	(Null)	N
bookstack	localhost	2025-07-30 15:49:33	(Null)	N
bookstack	43.	2025-07-30 16:08:53	(Null)	N
bookstack		2025-07-30 16:08:53	(Null)	N
bookstack		2025-07-30 16:08:53	(Null)	N
bookstack		2025-07-30 16:08:53	(Null)	N

MySQL 8.0

```
1 select user, host, password_last_changed, password_lifetime,password_expired,password_reuse_history,password_reuse_time from mysql.user;
```

信息	摘要	结果 1	剖析	状态			
user	host	password_last_changed	password_lifetime	password_expired	password_reuse_history	password_reuse_time	
demo1	127.0.0.1	2025-07-29 12:06:29	(Null)	N	(Null)	(Null)	
demo2	180.172.238.	2025-07-30 14:48:30	(Null)	N	(Null)	(Null)	
demo1	localhost	2025-07-29 12:06:29	(Null)	N	(Null)	(Null)	
demo2	localhost	2025-07-30 14:48:30	(Null)	N	(Null)	(Null)	
mysql.info	localhost	2025-07-26 20:41:19	(Null)	N	(Null)	(Null)	
mysql.sess	localhost	2025-07-26 20:41:19	(Null)	N	(Null)	(Null)	
mysql.sys	localhost	2025-07-26 20:41:19	(Null)	N	(Null)	(Null)	
root	localhost	2025-07-30 14:46:03	(Null)	N	(Null)	(Null)	

????b) ???

MySQL 8.1

MySQL 8.0

MySQL

```
select host,user,User_attributes from mysql.user;

# interactive_timeout

show variables like '%timeout';
```

```
1 select host,user,User_attributes from mysql.user;
```

信息 摘要 结果 1 剖析 状态

host	user	User_attributes
%	secure_user	{"Password_locking": {"failed_login_attempts": 5, "password_lock_time_days": 1}}
127.0.0.1	demo1	(Null)
180.172.238.55	demo2	(Null)
localhost	demo1	(Null)
localhost	demo2	(Null)
localhost	mysql.infoschema	(Null)
localhost	mysql.session	(Null)
localhost	mysql.sys	(Null)
localhost	root	(Null)

```
mysql> show variables like '%timeout';
```

Variable_name	Value
connect_timeout	10
delayed_insert_timeout	300
have_statement_timeout	YES
innodb_flush_log_at_timeout	1
innodb_lock_wait_timeout	50
innodb_rollback_on_timeout	OFF
interactive_timeout	28800
lock_wait_timeout	31536000
mysqlx_connect_timeout	30
mysqlx_idle_worker_thread_timeout	60
mysqlx_interactive_timeout	28800
mysqlx_port_open_timeout	0
mysqlx_read_timeout	30
mysqlx_wait_timeout	28800
mysqlx_write_timeout	60
net_read_timeout	30
net_write_timeout	60
rpl_stop_slave_timeout	31536000
slave_net_timeout	60
wait_timeout	28800

```
20 rows in set (0.00 sec)
```

????c) ?????????????????????????????????????



```
# root@root@localhost:~$ mysql -u root --ssl --ssl-ca=/etc/pki/tls/certs/ca.pem --ssl-cert=/etc/pki/tls/certs/root.crt --ssl-key=/etc/pki/tls/private/root.key --ssl-verify=CLIENT
select user, host, ssl_type from mysql.user where user = 'root';
# root@root@localhost:~$ mysql -u root --ssl --ssl-ca=/etc/pki/tls/certs/ca.pem --ssl-cert=/etc/pki/tls/certs/root.crt --ssl-key=/etc/pki/tls/private/root.key --ssl-verify=CLIENT
show variables like 'require_secure_transport';
# root@root@localhost:~$ mysql -u root --ssl --ssl-ca=/etc/pki/tls/certs/ca.pem --ssl-cert=/etc/pki/tls/certs/root.crt --ssl-key=/etc/pki/tls/private/root.key --ssl-verify=CLIENT
show variables like 'have_ssl';
# root@root@localhost:~$ mysql -u root --ssl --ssl-ca=/etc/pki/tls/certs/ca.pem --ssl-cert=/etc/pki/tls/certs/root.crt --ssl-key=/etc/pki/tls/private/root.key --ssl-verify=CLIENT
show global variables like 'ssl_cipher';
show global variables like 'ssl_ca';
show global variables like 'ssl_cert';
show global variables like 'ssl_key';
# root@root@localhost:~$ mysql -u root --ssl --ssl-ca=/etc/pki/tls/certs/ca.pem --ssl-cert=/etc/pki/tls/certs/root.crt --ssl-key=/etc/pki/tls/private/root.key --ssl-verify=CLIENT
show session status like 'ssl_cipher';
show session status LIKE 'Ssl_cipher_list';
show session status like 'ssl_version';
# root@root@localhost:~$ mysql -u root --ssl --ssl-ca=/etc/pki/tls/certs/ca.pem --ssl-cert=/etc/pki/tls/certs/root.crt --ssl-key=/etc/pki/tls/private/root.key --ssl-verify=CLIENT
show variables like 'tls_version';
```

```
mysql> # 查看指定用户名（如root）是否强制使用TLS传输
mysql> select user, host, ssl_type from mysql.user where user = 'root';
+-----+-----+-----+
| user | host      | ssl_type |
+-----+-----+-----+
| root | localhost |          |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> # 查看是否全局开启强制TLS传输
mysql> show variables like 'require_secure_transport';

show variables like 'have_ssl';
# 查看MySQL当前支持的TLS版本
show variables like 'ssl_cipher';
show variables like 'tls_version';
# 查看MySQL当前TLS相关配置信息
show global variables like 'ssl_cipher';
show global variables like 'require_secure_transport';
+-----+-----+-----+
| Variable_name | Value |
+-----+-----+-----+
| require_secure_transport | ON |
+-----+-----+-----+
1 row in set (0.01 sec)

mysql> # 查看MySQL是否已开启TLS传输
mysql> show variables like 'have_ssl';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| have_ssl      | YES   |
+-----+-----+
1 row in set (0.00 sec)
```


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