

java SQL Exception 01

今天处理了一个有意思的报错：

Caused by: java.sql.SQLException: View 'wift_ccms.v_pa_policy' references invalid table(s) or column(s) or function(s) or definer/invoker of view lack rights to use them

报错原因分析：

1. 基表结构发生变化
2. 列或函数有问题（不知所以）
3. 视图的定义者缺乏使用权限（In my case, the definer lacks the access to the base table of the view.）

```
mysql> show create table wift_ccms.v_agent\G
```

```
***** 1. row *****

View: v_agent

Create View: CREATE ALGORITHM=UNDEFINED DEFINER=`dbwrite_jett`@`10.160.%` SQL SECURITY DEFINER VIEW
`wift_ccms`.`v_agent` AS select `wift_iivs`.`t_agent`.`AGENT_ID` AS `AGENT_ID`,`wift_iivs`.`t_agent`.`CUST_ID` AS
`CUST_ID`,`wift_iivs`.`t_agent`.`CHANNEL_ID` AS `CHANNEL_ID`,`wift_iivs`.`t_agent`.`AGENT_CODE` AS
`AGENT_CODE`,`wift_iivs`.`t_agent`.`AGENT_NAME` AS `AGENT_NAME`,`wift_iivs`.`t_agent`.`GENDER` AS
`GENDER`,`wift_iivs`.`t_agent`.`BIRTHDAY` AS `BIRTHDAY`,`wift_iivs`.`t_agent`.`CERTI_TYPE` AS
`CERTI_TYPE`,`wift_iivs`.`t_agent`.`CERTI_CODE` AS `CERTI_CODE`,`wift_iivs`.`t_agent`.`MOBILE` AS
`MOBILE`,`wift_iivs`.`t_agent`.`FIXED_TEL` AS `FIXED_TEL`,`wift_iivs`.`t_agent`.`EMAIL` AS
`EMAIL`,`wift_iivs`.`t_agent`.`ORGAN_ID` AS `ORGAN_ID`,`wift_iivs`.`t_agent`.`AGENT_CATE` AS
`AGENT_CATE`,`wift_iivs`.`t_agent`.`AGENT_GRADE` AS `AGENT_GRADE`,`wift_iivs`.`t_agent`.`AGENT_STATUS` AS
`AGENT_STATUS`,`wift_iivs`.`t_agent`.`BANK_CODE` AS `BANK_CODE`,`wift_iivs`.`t_agent`.`ACCOUNT_NAME` AS
`ACCOUNT_NAME`,`wift_iivs`.`t_agent`.`BANK_ACCOUNT` AS `BANK_ACCOUNT`,`wift_iivs`.`t_agent`.`EDUCATION` AS
`EDUCATION`,`wift_iivs`.`t_agent`.`HIRE_DATE` AS `HIRE_DATE`,`wift_iivs`.`t_agent`.`LEAVE_DATE` AS
`LEAVE_DATE`,`wift_iivs`.`t_agent`.`COUNTRY` AS `COUNTRY`,`wift_iivs`.`t_agent`.`MARRIAGE` AS
`MARRIAGE`,`wift_iivs`.`t_agent`.`NATIONALITY` AS `NATIONALITY`,`wift_iivs`.`t_agent`.`CREATE_BY` AS
`CREATE_BY`,`wift_iivs`.`t_agent`.`CREATE_TIME` AS `CREATE_TIME`,`wift_iivs`.`t_agent`.`CREATE_TIMESTAMP` AS
`CREATE_TIMESTAMP`,`wift_iivs`.`t_agent`.`UPDATE_BY` AS `UPDATE_BY`,`wift_iivs`.`t_agent`.`UPDATE_TIME` AS
`UPDATE_TIME`,`wift_iivs`.`t_agent`.`UPDATE_TIMESTAMP` AS `UPDATE_TIMESTAMP`,`wift_iivs`.`t_agent`.`staff_indi` AS
`staff_indi`,`wift_iivs`.`t_agent`.`signed_contract` AS `signed_contract`,`wift_iivs`.`t_agent`.`SYNC_STATUS` AS
`SYNC_STATUS`,`wift_iivs`.`t_agent`.`POLITICAL_TYPE` AS `POLITICAL_TYPE`,`wift_iivs`.`t_agent`.`NATIVE_PLACE` AS
`NATIVE_PLACE`,`wift_iivs`.`t_agent`.`DOMICILE` AS `DOMICILE`,`wift_iivs`.`t_agent`.`SCHOOL_NAME` AS
`SCHOOL_NAME`,`wift_iivs`.`t_agent`.`SPECIALTY` AS `SPECIALTY`,`wift_iivs`.`t_agent`.`JOB_TITLE` AS
`JOB_TITLE`,`wift_iivs`.`t_agent`.`OLD_JOB` AS `OLD_JOB`,`wift_iivs`.`t_agent`.`OLD_COMPANY` AS
`OLD_COMPANY`,`wift_iivs`.`t_agent`.`OLD_POSITION` AS `OLD_POSITION`,`wift_iivs`.`t_agent`.`HOME_TEL` AS
`HOME_TEL`,`wift_iivs`.`t_agent`.`APPLY_TIME` AS `APPLY_TIME`,`wift_iivs`.`t_agent`.`REGULAR_WORKER_SIGN` AS
`REGULAR_WORKER_SIGN`,`wift_iivs`.`t_agent`.`REGULAR_WORKER_TIME` AS `REGULAR_WORKER_TIME`,`wift_iivs`.`t_agent`.`CONTRACT_TYPE`
AS `CONTRACT_TYPE` from `wift_iivs`.`t_agent`
character_set_client: utf8
collation_connection: utf8_general_ci
1 row in set (0.00 sec)
```

```
mysql>
```

```
mysql> select user, host from mysql.user where user like 'dbwrite_jett';
```

```
+-----+-----+
| user      | host |
+-----+-----+
| dbwrite_jett | %    |
+-----+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> show grants for dbwrite_jett@'%';
```

```
+-----+
| Grants for dbwrite_jett@% |
+-----+
| GRANT USAGE ON *.* TO 'dbwrite_jett'@'%' |
+-----+
```

```
| GRANT ALL PRIVILEGES ON `wift_ccms`.* TO 'dbwrite_jett'@'%' |
+-----+
2 rows in set (0.00 sec)

mysql>
```

视图的定义者`dbwrite_jett`@`10.160.%` 只有wift_ccms库的权限，而其创建的基表是wift_iivs库的。

root用户和创建者用户查询该视图都报错：

```
mysql> select count(*) from wift_ccms.v_agent;
```

```
ERROR 1356 (HY000): View 'wift_ccms.v_agent' references invalid table(s) or column(s) or function(s) or definer invoker of view
lack rights to use them
```

```
mysql>
```