## 1292 Incorrect datetime value

"org. springframework.dao.DataIntegrityViolationException: ### Error updating database. Cause: com.mysql.jdbc.MysqlDataTruncation: Data truncation: Incorrect datetime value: '2040-08-11 15:24:52.981' for column 'updatetime' at row 1 ### The error may involve  $\verb|com. ins. bcp. banktext. mappers. BankOffsetSumMapper. updateByExampleSelective-Inline | Part of the property of the prope$ ### The error occurred while setting parameters ### SQL: update t\_bank\_offset\_sum SET offset\_sum\_id = ?, updatetime = ?, fee\_status = ?, op\_batch\_no = ? WHERE ( offset\_sum\_id = ? ) ### Cause: com. mysql. jdbc. MysqlDataTruncation: Data truncation: Incorrect datetime value: '2040-08-11 15:24:52.981' update t\_bank\_offset\_sum SET offset\_sum\_id = ?, updatetime = '2040-08-11 15:24:52.981', fee\_status = ?, op\_batch\_no = ? WHERE ( offset\_sum\_id = ? ) MySQL 日期类型: 日期格式、所占存储空间、日期范围 比较。 日期类型 存储空间 日期格式 日期范围 8 bytes YYYY-MM-DD HH:MM:SS 1000-01-01 00:00:00 ~ 9999-12-31 23:59:59 datetime timestamp 4 bytes YYYY-MM-DD HH:MM:SS 1970-01-01 00:00:01 ~ 2038 date 3 bytes YYYY-MM-DD 1000-01-01 ~ 9999-12-31 1 bytes YYYY 1901 ~ 2155 在 MySQL 中创建表时,对照上面的表格,很容易就能选择到合适自己的数据类型。不过到底是选择 datetime 还是 timestamp,可能会有点犯难。 这两个日期时间类型各有优点: datetime 的日期范围比较大; timestamp 所占存储空间比较小,只是 datetime 的一半。 另外, timestamp 类型的列还有个特性: 默认情况下, 在 insert, update 数据时, timestamp 列会自动以当前时间 (CURRENT\_TIMESTAMP) 填充/ 更新。"自动"的意思就是, 你不去管它, MySQL 会替你去处理。 timestamp所能存储的时间范围为: '1970-01-01 00:00:01.000000' 到 '2038-01-19 03:14:07.999999'。 datetime所能存储的时间范围为: '1000-01-01 00:00:00.00000' 到 '9999-12-31 23:59:59.999999'。 原因: timestamp类型只占4个字节,支持范围小,最大值为2038 参考: http://www.jb51.net/article/23966.htm 解决方法: 将timestamp类型改为datetime类型, mysql> desc test; | Field | Type | Null | Key | Default Extra t timestamp YES CURRENT TIMESTAMP 1 row in set (0.00 sec) mysql> select \* from test; 2017-08-18 16:34:19 2017-08-18 16:34:27 2017-08-18 16:34:30

| 2017-08-18 16:34:31 | | 2017-08-18 16:34:33 |

5 rows in set (0.00 sec)

```
mysql> alter table test modify column t datetime;
Query OK, 5 rows affected (1.94 sec)
Records: 5 Duplicates: 0 Warnings: 0
mysql> select * from test;
t
2017-08-18 16:34:19
2017-08-18 16:34:27
2017-08-18 16:34:30
2017-08-18 16:34:31
2017-08-18 16:34:33
5 rows in set (0.00 sec)
mysql> desc test;
+----+
| Field | Type | Null | Key | Default | Extra |
+-----+
    datetime | YES | NULL |
+----+
1 row in set (0.01 sec)
mysql> alter table test alter column t set default now();
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the
right syntax to use near 'now()' at line 1
mysql> select version();
version()
+----+
5. 7. 18-log
+----+
1 row in set (0.13 sec)
mysq1>
但又有问题: 默认值没了
解决方法:
可以使用trigger来实现此功能。
create table test_time (
idint(11),
create_time datetime
);
delimiter
create \ trigger \ default\_date time \ before \ insert \ on \ test\_time
 foreach row
   if new.create_time is null then
    set new.create_time = now();
   end if;
delimiter;
```