

APIJSON 对 clickhosue 删除和修改的支持

clickhosue 删除修改的 的格式为 ;

ALTER TABLE [db.]table UPDATE column1 = expr1 [, ...] WHERE filter_expr

ALTER TABLE [db.]table [ON CLUSTER cluster] DELETE WHERE filter_expr

原来的框架如果不修改，按照原来的方式进行解析，生成的是标准的以 UPDATE 或 DELETE 开头的语句，而 clickhouse 中支持的是以 ALTER TABLE 开头的语句，并且 UPDATE 没有 SET 这个关键字。

报错如下

```
>>>cc.blynk.clickhouse.exception.ClickHouseException: ClickHouse exception, code: 62, host: null, port: 0; code: 62, e.displayText() = DB::Exception: Syntax error: failed at position 1 ('UPDATE'): UPDATE `test`.`moment` content  
Expected one of: ALTER query, Query with output, ALTER PROFILE, RENAME DATABASE, SHOW PRIVILEGES query, TRUNCATE, KILL, KILL QUERY query, SELECT query, possibly with UNION, list of union elements, ALTER ROLE, SELECT sub
```

```
at cc.blynk.clickhouse.query.ClickHouseExceptionSpecifier.specify(ClickHouseExceptionSpecifier.java:72)  
    at cc.blynk.clickhouse.exception.ClickHouseExceptionSpecifier.specify(ClickHouseExceptionSpecifier.java:72)  
    at cc.blynk.clickhouse.http.DefaultHttpClientConnector.checkForErrorAndThrow(DefaultHttpClientConnector.java:281)  
    at cc.blynk.clickhouse.http.DefaultHttpClientConnector.sendPostRequest(DefaultHttpClientConnector.java:169)  
    at cc.blynk.clickhouse.http.DefaultHttpClientConnector.post(DefaultHttpClientConnector.java:23)  
    at cc.blynk.clickhouse.clickhouseIntegration.JdbcRepository.insertClickhouseData(clickhouseIntegration.java:79)
```

同时 clickhosue 的修改和删除 不支持 在最后使用 LIMIT 关键字, 会报错。
对 AbstractSqlConfig 中 getSql 方法修改如下:

```
12 APIJSONORM/src/main/java/apijson/orm/AbstractSQLConfig.java
@@ -2587,7 +2587,7 @@ public String getSetString(RequestMethod method, Map<String, Object> content, bo
    2587 2587         if (setString.isEmpty()) {
    2588 2588             throw new IllegalArgumentException("PUT 请求必须在Table内设置要修改的 key:value !");
    2589 2589         }
    2590 2590         return "SET " + setString;
    2590 2590         return (isClickHouse()) ? "SET " + setString;
    2591 2591     }
    2592 2592
    2593 2593     /**SET key = concat(key, 'value')
    2593 2593
    2594 2594     @@ -2665,9 +2665,15 @@ public static String getSQL(AbstractSQLConfig config) throws Exception {
    2665 2665         case POST:
    2666 2666             return "INSERT INTO " + tablePath + config.getColumnString() + " VALUES " + config.getValuesString();
    2667 2667         case PUT:
    2668 2668             return "UPDATE " + tablePath + config.getSetString() + config.getWhereString(true) + (config.isMySQL() || config.isClickHouse() ? config.getLimitString() : "");
    2668 2668             if (config.isClickHouse()){
    2669 2669                 return "ALTER TABLE " + tablePath + " UPDATE" + config.getSetString() + config.getWhereString(true);
    2670 2670             }
    2671 2671             return "UPDATE " + tablePath + config.getSetString() + config.getWhereString(true) + (config.isMySQL() ? config.getLimitString() : "");
    2669 2672         case DELETE:
    2670 2670             return "DELETE FROM " + tablePath + config.getWhereString(true) + (config.isMySQL() || config.isClickHouse() ? config.getLimitString() : ""); //
    2673 2673             if (config.isClickHouse()){
    2674 2674                 return "ALTER TABLE " + tablePath + " DELETE" + config.getWhereString(true);
    2675 2675             }
    2676 2676             return "DELETE FROM " + tablePath + config.getWhereString(true) + (config.isMySQL() ? config.getLimitString() : ""); // PostgreSQL 不允许 LIMIT
    2671 2677         default:
    2672 2678             String explain = (config.isExplain() ? (config.isSQLServer() || config.isOracle() ? "SET STATISTICS PROFILE ON " : "EXPLAIN ") : "");
    2673 2679             if (config.isTest() && RequestMethod.isGetMethod(config.getMethod(), true)) {
```

修改之后，已经解决问题。