

```

import java.io.IOException;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.regex.Pattern;

import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.hbase.HColumnDescriptor;
import org.apache.hadoop.hbase.HTableDescriptor;
import org.apache.hadoop.hbase.KeyValue;
import org.apache.hadoop.hbase.client.Get;
import org.apache.hadoop.hbase.client.HBaseAdmin;
import org.apache.hadoop.hbase.client.HTable;
import org.apache.hadoop.hbase.client.HTableInterface;
import org.apache.hadoop.hbase.client.Increment;
import org.apache.hadoop.hbase.client.Put;
import org.apache.hadoop.hbase.client.Result;
import org.apache.hadoop.hbase.client.ResultScanner;
import org.apache.hadoop.hbase.client.Scan;
import org.apache.hadoop.hbase.util.Bytes;
import org.apache.log4j.Logger;

public class HbaseUtils {
    private static Logger logger = Logger.getLogger(HbaseUtils.class);
    private static Configuration conf = null;
    static int count = 0;

    /** 根据行键进行数据查询
     * @param tableName 表名称,现有表有: sql_gdm_m03_item_sku_da_jss_201405
     * @param rowKey 行键
     * @param columns 返回列过滤(item_first_cate_cd,item_second_cate_cd,
     *             item_third_cate_cd,work_post_cd,shop_id,dept_id_1,
     *             dept_name_1,dept_id_2,dept_name_2,dept_id_3,dept_name_3)
     */
    public static Map<String, String> getResult(HTableInterface table, String cf, String rowKey, String... columns)
    throws IOException {
        Get get = new Get(Bytes.toBytes(rowKey));
        for (String column : columns) {
            get.addColumn(Bytes.toBytes(cf), Bytes.toBytes(column));
        }
        Map<String, String> map = new HashMap<String, String>();
        Result result = table.get(get);
        List<KeyValue> list = result.list();
        if (list != null) {
            for (KeyValue kv : result.list()) {
                map.put(Bytes.toString(kv.getQualifier()), Bytes.toString(kv.getValue()));
            }
        }
    }
}

```

```

    }
}
return map;
}

```

```

/* 遍历查询 hbase 表
 * @tableName 表名
 */

```

```

public static void getResultScann(String tableName, String start_rowkey, String stop_rowkey) throws
IOException {

```

```

    Scan scan = new Scan();
    scan.setStartRow(Bytes.toBytes(start_rowkey));
    scan.setStopRow(Bytes.toBytes(stop_rowkey));
    ResultScanner rs = null;
    HTable table = new HTable(conf, Bytes.toBytes(tableName));
    try {
        rs = table.getScanner(scan);
        for (Result r : rs) {
            for (KeyValue kv : r.list()) {
                logger.error("row:" + Bytes.toString(kv.getRow()));
                logger.error("family:" + Bytes.toString(kv.getFamily()));
                logger.error("qualifier:" + Bytes.toString(kv.getQualifier()));
                logger.error("|" + Bytes.toString(kv.getValue()));
                logger.error("timestamp:" + kv.getTimestamp());

            }
        }
    } finally {
        rs.close();
        table.close();
    }
}

```

```

/* 删除表 @tableName 表名
 */

```

```

public static void deleteTable(String tableName) throws IOException {
    HBaseAdmin admin = new HBaseAdmin(conf);
    admin.disableTable(tableName);
    admin.deleteTable(tableName);
    admin.close();
    System.out.println(tableName + "is deleted!");
}

```

```

/** 获取表名称 */

```

```

public static String loadTable() {
    HBaseAdmin admin = null;
    logger.debug("+++++++start");
}

```

```

try {
    String prefix = "sql_gdm_m03_item_sku_da_jss_";
    admin = new HBaseAdmin(conf);
    Pattern p = Pattern.compile("^" + prefix + "\\d+$");
    String[] tables = admin.getTableNames(p);
    if (tables == null || tables.length == 0) {
        return null;
    }

    int[] suffixs = new int[tables.length];
    for (int i = 0; i < tables.length; i++) {
        logger.debug("-----table Name-----" + tables[i]);
        String suffix = tables[i].substring(tables[i].lastIndexOf("_") + 1);
        suffixs[i] = Integer.parseInt(suffix);
    }
    Arrays.sort(suffixs);
    logger.debug("++++++++++++++++++++++++++++++++++++end");
    return prefix + suffixs[suffixs.length - 1];
} catch (Exception ex) {
    logger.error("获取表异常: ", ex);
    return null;
} finally {
    try {
        admin.close();
    } catch (IOException io) {
        logger.error("关闭表异常: ", io);
    }
}
}

/* 创建表
 * @tableName 表名
 * @family 列族列表
 */
public static void creatTable(String tableName, String[] family) throws Exception {
    HBaseAdmin admin = new HBaseAdmin(conf);
    HTableDescriptor desc = new HTableDescriptor(tableName);
    for (int i = 0; i < family.length; i++) {
        desc.addFamily(new HColumnDescriptor(family[i]));
    }
    if (admin.tableExists(tableName)) {
        logger.error("---table " + tableName + " Exists!---");
        System.exit(0);
    } else {
        admin.createTable(desc);
        logger.debug("---create table " + tableName + " Success!---");
    }
}

```

```

        admin.close();
    }

```

```

    public static void IncrValue(HTableInterface htable, String rowKey, String family, String columnArr[], long
valueArr[]) {
        try {
            htable.setAutoFlush(false);
            Increment inc = new Increment(Bytes.toBytes(rowKey));
            for (int j = 0; j < columnArr.length; j++) {
                inc.addColumn(Bytes.toBytes(family), Bytes.toBytes(columnArr[j]), valueArr[j]);
            }
            htable.increment(inc);
        } catch (Exception e) {
            logger.error("IncrValue error msg", e);
        }
    }
}

```

```

/**

```

```

 * @param tableName
 * @param familyColumn
 * @param rowKey
 * @param columnArr
 * @param time
 * @param valueArr
 */

```

```

    public static boolean addData(HTableInterface htable, String familyColumn, String rowKey, String columnArr[],
long ts, String valueArr[])
        throws IOException {
        Put put = null;
        try {
            htable.setAutoFlush(false);
            put = new Put(Bytes.toBytes(rowKey));
            for (int j = 0; j < columnArr.length; j++) {
                put.add(Bytes.toBytes(familyColumn),
                        Bytes.toBytes(columnArr[j]),
                        Bytes.toBytes(valueArr[j]), ts);
            }
            htable.put(put);
            return true;
        } catch (Exception e) {
            logger.error("error count=" + count++);
            return false;
        }
    }
}

```

```

    public static String getRowKey(long orderId) {
        String id = String.valueOf(orderId);
    }

```

```

        if (id == null) {
            return null;
        }
        StringBuffer buf = new StringBuffer(id).reverse();
        while (buf.length() < 13) {
            buf.append("0");
        }
        return buf.toString();
    }
}

```

/** 字符串左补零 */

```

public static String getLeftAddZero(String str, int len) {
    len = len - str.length();
    for (int i = 0; i < len; i++) {
        str = "0" + str;
    }
    return str;
}

```

/** 查询 hbase 中的 sku 的信息 */

```

public static Map<String, String> getCityParComRELA(HTableInterface htable) {
    ResultScanner rs = null;
    Map<String, String> map = new HashMap<String, String>();
    try {
        Scan scan = new Scan();
        scan.addColumn(Bytes.toBytes("f"), Bytes.toBytes("centerNum"));
        rs = htable.getScanner(scan);
        if (rs != null) {
            for (Result r = rs.next(); r != null; r = rs.next()) {
                for (KeyValue kv : r.raw()) {
                    map.put(Bytes.toString(kv.getRow()), Bytes.toString(kv.getValue()));
                }
            }
        }
    } catch (Exception ex) {
        logger.error("hbase query getCityParComRELA error", ex);
    }
    return map;
}

```

```

public static void main(String[] args) {
    System.out.println(getRowKey(120876300L));
}

```

```

}

```