**电表采集数据库字典**

|  |  |
| --- | --- |
| **表名** | **解释** |
| collectedenergydata | 电表电量数据表 |
| collectedneededdata | 电表需量数据表 |
| collectedotherdata | 电表其他数据 |
| fieldprotocol | 采集点信息表 |
| guidandmeter | GUID与电表对应表 |
| meterprotocol | 电表信息表 |

## 表名:collectedneeddata

**解释:**采集电表电量数据

**备注:** 此表用来记录采集的电量数据

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **是否主键** | **字段名** | **字段描述** | **数据类型** | **长度** | **可空** | **约束** | **缺省值** | **备注** |
|  | meterId | 电表ID | int | 11 |  | FK |  |  |
|  | fieldId | 采集点ID | int | 11 |  | FK |  |  |
|  | gatherTime | 采集时间 | bigint | 20 | 是 |  |  |  |
|  | value | 采集值 | double |  | 是 |  |  |  |
|  | recivedTime | 接受时间 | bigint | 20 |  |  |  |  |

## 表名: collectedotherdata

**解释:**采集电表需量数据

**备注:** 此表用来记录采集的需量数据

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| **是否主键** | **字段名** | **字段描述** | **数据类型** | **长度** | **可空** | **约束** | **缺省值** | **备注** |
|  | meterId | 电表ID | int | 11 |  | FK |  |  |
|  | fieldId | 采集点ID | int | 11 |  | FK |  |  |
|  | gatherTime | 采集时间 | bigint | 20 | 是 |  |  |  |
|  | value | 采集值 | double |  | 是 |  |  |  |
|  | recivedTime | 接受时间 | bigint | 20 |  |  |  |  |

## 表名:collectedenergydata

**解释:**采集电表其他数据

**备注:** 此表用来记录采集的其他数据

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **是否主键** | **字段名** | **字段描述** | **数据类型** | **长度** | **可空** | **约束** | **缺省值** | **备注** |
|  | meterId | 电表ID | int | 11 |  | FK |  |  |
|  | fieldId | 采集点ID | int | 11 |  | FK |  |  |
|  | gatherTime | 采集时间 | bigint | 20 | 是 |  |  |  |
|  | value | 采集值 | double |  | 是 |  |  |  |
|  | recivedTime | 接受时间 | bigint | 20 |  |  |  |  |

## 表名: fieldprotocol

**解释:**电表采集点信息数据

**备注:** 此表用来记录电表采集点信息数据

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **是否主键** | **字段名** | **字段描述** | **数据类型** | **长度** | **可空** | **约束** | **缺省值** | **备注** |
| 是 | fieldId | 采集点ID | int | 11 |  |  |  |  |
|  | protocol | 采集点采集协议 | varchar | 30 |  |  |  |  |
|  | shape\_code | 采集点地址编码 | varchar | 30 |  |  |  |  |
|  | name | 采集点名称 | varchar | 20 |  |  |  |  |
|  | unit | 单位 | varchar | 20 | 是 |  |  |  |
|  | type | 采集点数据类型 | char | 2 |  | 01,02,03 |  | 01 energyData,02 neededData,03 otherData |
|  | data\_length | 采集点数据长度（字节） | int | 2 |  |  |  |  |
|  | decimal\_length | 采集点数据小数位长度 | int | 2 |  |  |  |  |

## 表名:guidandmeter

**解释:**guid与meter对应关系表

**备注:** 此表用来记录DTU上传的guid与meter的对应管理

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **是否主键** | **字段名** | **字段描述** | **数据类型** | **长度** | **可空** | **约束** | **缺省值** | **备注** |
| 是 | Id | 主键ID | int | 4 |  |  |  |  |
|  | GUID | DTU串口服务器唯一标识编码 | varchar | 50 |  |  |  | 当前使用DTU串口服务器mac地址 |
|  | MeterCode | 电表采集编码 | varchar | 20 |  |  |  |  |
|  | Addtime | 添加时间 | bigint | 20 |  |  |  |  |
|  | IsDelete | 添加时间 | bigint | 1 |  | true/false |  |  |

## 表名:meterprotocol

**解释:**电表信息表

**备注:** 此表用来记录电表采集编码及协议信息

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **是否主键** | **字段名** | **字段描述** | **数据类型** | **长度** | **可空** | **约束** | **缺省值** | **备注** |
| 是 | meterId | 电表ID | int | 11 |  |  |  |  |
|  | meter\_shape\_code | 电表采集编码 | varchar | 30 |  |  |  |  |
|  | protocol | 电表采集协议 | varchar | 30 |  |  |  |  |
|  | ipv4 | 电表地址 | char | 15 |  |  |  | 这个字段现在没有用 |



1.系统结构图

2.处理流程图