塔吊实时监控

[元数据建模信息有限公司]

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| 塔吊实时监控 |

文档信息

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| --- | --- | --- | --- |
| 项目名称： | 塔吊实时监控 | | |
| 项目经理： | 杨松<yangsong158@qq.com> | 模型编号： | 4.1.1 |
| 模型创建日期： | 2022-11-25 14:53:48 | 模型更新日期： | 2022-11-25 14:56:08 |
| 起草人： | 元数建模自动生成 | 文档创建日期： |  |
| 复审人： | 杨松<yangsong158@qq.com> | 复审日期： |  |
| 项目说明： | 塔吊实时监控 | | |
| 官方网站： | <http://www.chiner.com.cn/> | | |
| 开源代码： | <https://gitee.com/robergroup/chiner.git>  <https://gitee.com/robergroup/chiner-java.git> | | |
| 联系作者： |  | | |

# CHINER-塔吊实时监控

## 关系图

## 表清单

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **数据表** | **名称** | **备注说明** |
| 1 | t\_crane\_project\_related | 项目设备关联表 |  |
| 2 | t\_terminal\_base\_info | 终端设备基本信息 |  |
| 3 | t\_terminal\_crane\_related | 终端设备绑定表 |  |
| 4 | t\_terminal\_tower\_alarm\_real\_time\_data | 设备报警实时数据表 |  |
| 5 | t\_terminal\_tower\_real\_time\_data | 设备实时数据表 |  |

## 表字段明细

### t\_crane\_project\_related [项目设备关联表]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **字段** | **名称** | **数据类型** | **主键** | **非空** | **默认值** | **备注说明** |
| 1 | id | id | BIGINT(20) | √ | √ |  |  |
| 2 | crane\_id | 设备id | BIGINT(20) |  |  | NULL |  |
| 3 | eng\_id | 工程Id | BIGINT(20) |  |  | NULL |  |
| 4 | eng\_code | 工程代码 | VARCHAR(40) |  |  | 'NULL' |  |
| 5 | eng\_name | 工程名称 | VARCHAR(255) |  |  | 'NULL' |  |
| 6 | area\_code | 监督机构区域编码 | VARCHAR(20) |  |  | 'NULL' |  |
| 7 | build\_permit\_code | 施工许可证号 | VARCHAR(255) |  |  | 'NULL' |  |
| 8 | prj\_code | 项目代码 | VARCHAR(255) |  |  | 'NULL' |  |
| 9 | prj\_id | 项目id | BIGINT(20) |  |  | NULL |  |
| 10 | related\_status | 绑定状态1.绑定中2.已解绑 | INT(11) |  |  | NULL |  |
| 11 | modifier\_id | 更新者id | VARCHAR(30) |  |  | 'NULL' |  |
| 12 | modify\_time | 更新时间 | DATETIME |  |  | 'NULL' |  |
| 13 | creator\_id | 创建者id | VARCHAR(30) |  |  | 'NULL' |  |
| 14 | is\_deleted | 是否已删除 | TINYINT UNSIGNED(4) |  | √ | 0 | (否: 0, 是: 1) |
| 15 | create\_time | 创建时间 | DATETIME |  |  | 'NULL' |  |

### t\_terminal\_base\_info [终端设备基本信息]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **字段** | **名称** | **数据类型** | **主键** | **非空** | **默认值** | **备注说明** |
| 1 | id |  | BIGINT(20) | √ | √ |  |  |
| 2 | terminal\_corp\_id | 终端企业id | BIGINT(20) |  |  | NULL |  |
| 3 | terminal\_corp\_name | 终端企业名称 | VARCHAR(255) |  |  | 'NULL' |  |
| 4 | terminal\_name | 终端设备名称 | VARCHAR(255) |  |  | 'NULL' |  |
| 5 | terminal\_type | 终端设备类型 | INT(11) |  |  | NULL |  |
| 6 | terminal\_produce\_num | 终端设备出厂编号 | VARCHAR(50) |  |  | 'NULL' |  |
| 7 | terminal\_only\_num | 终端设备唯一编码 | VARCHAR(50) |  |  | 'NULL' |  |
| 8 | terminal\_status | 设备状态1.在线2离线 | INT UNSIGNED(11) |  |  | 2 |  |
| 9 | sim\_num | sim卡号 | VARCHAR(255) |  |  | 'NULL' |  |
| 10 | create\_time | 创建时间 | DATETIME |  |  | 'NULL' |  |
| 11 | modify\_time | 更新时间 | DATETIME |  |  | 'NULL' |  |
| 12 | is\_deleted | 是否已删除 | TINYINT UNSIGNED(4) |  | √ | 0 | (否: 0, 是: 1) |
| 13 | creator\_id | 创建者id | VARCHAR(30) |  |  | 'NULL' |  |
| 14 | modifier\_id | 更新者id | VARCHAR(30) |  |  | 'NULL' |  |

### t\_terminal\_crane\_related [终端设备绑定表]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **字段** | **名称** | **数据类型** | **主键** | **非空** | **默认值** | **备注说明** |
| 1 | id |  | BIGINT(20) | √ | √ |  |  |
| 2 | terminal\_id | 终端设备id | BIGINT(20) |  |  | NULL |  |
| 3 | crane\_id | 设备id | BIGINT(20) |  |  | NULL |  |
| 4 | eng\_id | 工程id | BIGINT(20) |  |  | NULL |  |
| 5 | eng\_name | 工程名称 | VARCHAR(255) |  |  | 'NULL' |  |
| 6 | related\_status | 绑定状态0未绑定1.已绑定2.已解绑 | INT(11) |  |  | 0 |  |
| 7 | audit\_record\_number | 设备备案编号 | VARCHAR(255) |  |  | 'NULL' |  |
| 8 | create\_time | 创建时间 | DATETIME |  |  | 'NULL' |  |
| 9 | modify\_time | 更新时间 | DATETIME |  |  | 'NULL' |  |
| 10 | is\_deleted | 是否已删除 | TINYINT UNSIGNED(4) |  | √ | 0 | (否: 0, 是: 1) |
| 11 | creator\_id | 创建者id | VARCHAR(30) |  |  | 'NULL' |  |
| 12 | modifier\_id | 更新者id | VARCHAR(30) |  |  | 'NULL' |  |

### t\_terminal\_tower\_alarm\_real\_time\_data [设备报警实时数据表]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **字段** | **名称** | **数据类型** | **主键** | **非空** | **默认值** | **备注说明** |
| 1 | id | 主键id | BIGINT(20) | √ | √ |  |  |
| 2 | equipment\_no | 设备编号 | VARCHAR(50) |  |  | 'NULL' |  |
| 3 | device\_code | iot设备唯一编号 | VARCHAR(64) |  |  | 'NULL' |  |
| 4 | wind\_speed | 风速 | VARCHAR(50) |  |  | 'NULL' |  |
| 5 | load | 载重 | VARCHAR(50) |  |  | 'NULL' |  |
| 6 | rotation | 回转 | VARCHAR(255) |  |  | 'NULL' |  |
| 7 | range | 幅度 | VARCHAR(255) |  |  | 'NULL' |  |
| 8 | height | 高度 | VARCHAR(255) |  |  | 'NULL' |  |
| 9 | force\_moment | 力矩 | VARCHAR(255) |  |  | 'NULL' |  |
| 10 | boom\_crane\_elevation | 动臂吊仰角 | VARCHAR(50) |  |  | 'NULL' |  |
| 11 | current\_rate | 当前倍率 | VARCHAR(50) |  |  | 'NULL' |  |
| 12 | dip\_x | 倾角X | VARCHAR(255) |  |  | 'NULL' |  |
| 13 | dip\_y | 倾角Y | VARCHAR(255) |  |  | 'NULL' |  |
| 14 | early\_warning\_state | 预警状态 | VARCHAR(255) |  |  | 'NULL' |  |
| 15 | alarm\_state | 报警状态 | VARCHAR(255) |  |  | 'NULL' |  |
| 16 | sensor\_state | 传感器状态 | VARCHAR(255) |  |  | 'NULL' |  |
| 17 | real\_time\_rated\_load | 实时额定载重 | VARCHAR(255) |  |  | 'NULL' |  |
| 18 | wind\_level | 风级 | VARCHAR(50) |  |  | 'NULL' |  |
| 19 | temperature | 温度 | VARCHAR(50) |  |  | 'NULL' |  |
| 20 | class1\_ban\_lift\_area\_alarm | 一类禁吊区报警代码 | VARCHAR(255) |  |  | 'NULL' |  |
| 21 | class2\_ban\_lift\_area\_alarm | 二类禁吊区报警代码 | VARCHAR(255) |  |  | 'NULL' |  |
| 22 | time | 时间 | VARCHAR(50) |  |  | 'NULL' |  |
| 23 | job\_number | 工号 | VARCHAR(255) |  |  | 'NULL' |  |
| 24 | name | 姓名 | VARCHAR(50) |  |  | 'NULL' |  |
| 25 | id\_number | 身份证号 | VARCHAR(50) |  |  | 'NULL' |  |
| 26 | special\_equipment\_no | 特种设备作业证号 | VARCHAR(255) |  |  | 'NULL' |  |
| 27 | wire\_rope\_position | 钢丝绳位置 | VARCHAR(255) |  |  | 'NULL' |  |
| 28 | wire\_rope\_break\_percentage | 钢丝绳断丝百分比 | VARCHAR(50) |  |  | 'NULL' |  |
| 29 | early\_warning\_id | 预警id | BIGINT(20) |  |  | NULL |  |
| 30 | is\_deleted | 是否已删除 | BIT(1) |  |  | 0 | 0-未删除，1-已删除 |
| 31 | create\_time |  | DATETIME |  |  | 'NULL' |  |
| 32 | creator\_id | 创建者id | VARCHAR(30) |  |  | 'NULL' |  |
| 33 | modify\_time |  | DATETIME |  |  | 'NULL' |  |
| 34 | modifier\_id | 更新者id | VARCHAR(30) |  |  | 'NULL' |  |

### t\_terminal\_tower\_real\_time\_data [设备实时数据表]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **字段** | **名称** | **数据类型** | **主键** | **非空** | **默认值** | **备注说明** |
| 1 | id | 主键id | BIGINT(20) | √ | √ |  |  |
| 2 | equipment\_no | 设备编号 | VARCHAR(50) |  |  | 'NULL' |  |
| 3 | device\_code | iot设备唯一编号 | VARCHAR(64) |  |  | 'NULL' |  |
| 4 | wind\_speed | 风速 | VARCHAR(50) |  |  | 'NULL' |  |
| 5 | load | 载重 | VARCHAR(50) |  |  | 'NULL' |  |
| 6 | rotation | 回转 | VARCHAR(255) |  |  | 'NULL' |  |
| 7 | range | 幅度 | VARCHAR(255) |  |  | 'NULL' |  |
| 8 | height | 高度 | VARCHAR(255) |  |  | 'NULL' |  |
| 9 | force\_moment | 力矩 | VARCHAR(255) |  |  | 'NULL' |  |
| 10 | boom\_crane\_elevation | 动臂吊仰角 | VARCHAR(50) |  |  | 'NULL' |  |
| 11 | current\_rate | 当前倍率 | VARCHAR(50) |  |  | 'NULL' |  |
| 12 | dip\_x | 倾角X | VARCHAR(255) |  |  | 'NULL' |  |
| 13 | dip\_y | 倾角Y | VARCHAR(255) |  |  | 'NULL' |  |
| 14 | early\_warning\_state | 预警状态 | VARCHAR(255) |  |  | 'NULL' |  |
| 15 | alarm\_state | 报警状态 | VARCHAR(255) |  |  | 'NULL' |  |
| 16 | sensor\_state | 传感器状态 | VARCHAR(255) |  |  | 'NULL' |  |
| 17 | real\_time\_rated\_load | 实时额定载重 | VARCHAR(255) |  |  | 'NULL' |  |
| 18 | wind\_level | 风级 | VARCHAR(50) |  |  | 'NULL' |  |
| 19 | temperature | 温度 | VARCHAR(50) |  |  | 'NULL' |  |
| 20 | class1\_ban\_lift\_area\_alarm | 一类禁吊区报警代码 | VARCHAR(255) |  |  | 'NULL' |  |
| 21 | class2\_ban\_lift\_area\_alarm | 二类禁吊区报警代码 | VARCHAR(255) |  |  | 'NULL' |  |
| 22 | time | 时间 | VARCHAR(50) |  |  | 'NULL' |  |
| 23 | job\_number | 工号 | VARCHAR(255) |  |  | 'NULL' |  |
| 24 | name | 姓名 | VARCHAR(50) |  |  | 'NULL' |  |
| 25 | id\_number | 身份证号 | VARCHAR(50) |  |  | 'NULL' |  |
| 26 | special\_equipment\_no | 特种设备作业证号 | VARCHAR(255) |  |  | 'NULL' |  |
| 27 | wire\_rope\_position | 钢丝绳位置 | VARCHAR(255) |  |  | 'NULL' |  |
| 28 | wire\_rope\_break\_percentage | 钢丝绳断丝百分比 | VARCHAR(50) |  |  | 'NULL' |  |
| 29 | is\_deleted | 是否已删除 | BIT(1) |  |  | 0 | 0-未删除，1-已删除 |
| 30 | create\_time |  | DATETIME |  |  | 'NULL' |  |
| 31 | creator\_id | 创建者id | VARCHAR(30) |  |  | 'NULL' |  |
| 32 | modify\_time |  | DATETIME |  |  | 'NULL' |  |
| 33 | modifier\_id | 更新者id | VARCHAR(30) |  |  | 'NULL' |  |

## 数据字典明细

### Gender [性别]

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **代码** | **名称** | **备注说明** |
| 1 | M | 男 |  |
| 2 | F | 女 |  |
| 3 | U | 未知 |  |

### Political [政治面貌]

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **代码** | **名称** | **备注说明** |
| 1 | 10 | 共青团员 |  |
| 2 | 20 | 中共党员 |  |
| 3 | 30 | 民主党派 |  |
| 4 | 40 | 群众 |  |
| 5 | 90 | 未知 |  |

### Marital [婚姻状况]

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **代码** | **名称** | **备注说明** |
| 1 | UNMARRIED | 未婚 |  |
| 2 | MARRIED | 已婚 |  |
| 3 | WIDOWED | 丧偶 |  |
| 4 | DIVORCE | 离婚 |  |
| 5 | UNSPECIFIED | 未说明 |  |

### StudentStatus [学生状态]

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **代码** | **名称** | **备注说明** |
| 1 | Normal | 正常 |  |
| 2 | Graduated | 毕业 |  |
| 3 | Studied | 肄业 |  |
| 4 | Stop | 休学 |  |

### GBNation [民族]

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **代码** | **名称** | **备注说明** |
| 1 | 01 | 汉族 |  |
| 2 | 02 | 蒙古族 |  |
| 3 | 03 | 回族 |  |
| 4 | 04 | 藏族 |  |
| 5 | 05 | 维吾尔族 |  |
| 6 | 06 | 苗族 |  |
| 7 | 07 | 彝族 |  |
| 8 | 08 | 壮族 |  |
| 9 | 09 | 布依族 |  |
| 10 | 10 | 朝鲜族 |  |
| 11 | 11 | 满族 |  |

### GradeLevel [受教育程度]

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **代码** | **名称** | **备注说明** |