**数据平台接口文档-数据集**

网站交互文档

V1.0.0

修改记录

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
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# 1、接口使用说明

## 1.1 请求方式

POST/GET

## 1.2 请求参数

## 1.3 数据交换格式

json

## 1.4 JSON格式

{

“code”:“状态码”，

“msg”:“信息”，

“data”：“属性包 ,object, list”

}

## 1.5 code 说明

code=1 成功；

# 2、数据集

2.1添加数据集(Featrue#1408)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 添加数据集 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description | 1. 根据数据源，选择一个表，创建数据集 2. 是否可写：查找数据源is\_write字段 3. 是否同步：？？ 4. 采样相关的默认值？ 5. 在工作流中添加数据集，工作流id？ | | | | | | |
| Request | url | /api/data\_set/add | | | | | |
| params | projectId | | long | 必填 | | 项目id |
| dataSourceId | | long | 必填 | | 数据源(数据连接)id |
| dataSetName | | String | 必填 | | 数据源名称 |
| tableName | | String | 必填 | | 从数据源中选择的table名 |
| isFloatToInt | | Byte | 必填 | | 是否浮点型转整型0否1是 |
| workFlowId | | Long | 非必填 | | ？ |
| Response | reslut  JSON | { "msg":"success",  "code":0,  "data":  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |

2.2数据集列表(Featrue#1407)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 数据集列表 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | GET | | | | | | |
| Description | 1. 某project下所有的数据集； 2. 过滤：数据集名称、工作流； 3. 修改时间倒序，不分页 | | | | | | |
| Request | url | /api/data\_set/list | | | | | |
| params | projectId | | long | 必填 | | 项目id |
| filter | | String | 非必填 | | 根据数据集名称过滤 |
| workFlowId | | Long | 非必填 | | 根据工作流过滤 |
|  | |  |  | |  |
| Response | reslut  JSON | { "msg":"success",  "code":0,  "data":[  {  “id”:1,  "updateTime": 1516525989000,  },{},...  ]  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |

2.3数据集详情(Featrue#1409)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 数据集详情 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | GET | | | | | | |
| Description | 1. 查询data\_set表：描述、创建（人[名称]，时间）、修改（人[名称]、时间）， 2. 记录数：查询源数据表中的记录数（count()） 3. 查询workflow表：所在工作流名称？ 4. 查询workflow\_node表：相关数据处理节点, 所有的父节点及子节点 5. 图表? 6. 在工作流中点击数据集节点也使用此接口，（nodeId.datasetId） | | | | | | |
| Request | url | /api/data\_set/details | | | | | |
| params | dataSetId | | long | 必填 | | 数据集id |
|  | |  |  | |  |
| Response | reslut  JSON | { "msg":"success",  "code":0,  "data":  {  “id”:1,  "description": “天若有情天亦老，人间正道是沧桑”,  “createTime”:15730409549,  “createUser”: “小明”,  “updateTime”:15731412312,  “updateUser”:”华仔”,  “dataCount”:180,  “workflowName”:”锅炉每日最高温度”,  “workflowNodes”：[  {  “nodeId”: 111,  “nodeName”:”table\_1\_prepared”,  “isParent”:true  },{  “nodeId”: 112,  “nodeName”:”table\_2\_group”,  “isParent”:flase  },....  ],  “charts”：[  {  “chartId”: 111,  “chartName”:”count\_by\_id”,  },{  “chartId”: 112,  “chartName”:”table\_2\_group”,  },....  ],  },{},...  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |
|  |  |  |  | | |  | |

2.4编辑数据集(Featrue#1410)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 编辑数据集??? | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description |  | | | | | | |
| Request | url | /api/data\_set/edit | | | | | |
| params |  | |  |  | |  |
|  | |  |  | |  |
|  | |  |  | |  |
|  | |  |  | |  |
| Response | reslut  JSON | { "msg":"success",  "code":0,  "data":[  {  “id”:1,  "updateTime": 1516525989000,  },{},...  ]  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |

2.5删除数据集(Featrue#1412)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 删除数据集 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description | 1.可批量删除，多个id用逗号隔开 | | | | | | |
| Request | url | /api/data\_set/delete | | | | | |
| params | dataSetId | | String | 必填 | | 数据集Id |
|  | |  |  | |  |
| Response | reslut  JSON | { "msg":"success",  "code":0,  "data":  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |

2.6数据表连接测试(Featrue#1413)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 数据表连接测试 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | GET | | | | | | |
| Description | 1. 创建数据集时需要先测试数据表 2. 从选定的数据连接和数据表中选取？？条数据做一个预览 | | | | | | |
| Request | url | /api/data\_set/connect\_test | | | | | |
| params | dataSourceId | | Long | 必填 | | 数据源Id |
| tableName | | String | 必填 | | 数据表名称 |
| retry | | Boolean | 必填 | | 再次测试 |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data": [  {  "unit\_sign": "℃",  "length": "",  "description": "温度",  "model\_id": 1,  "type": 0,  "type\_value": "",  "update\_date": 1516525989000,  "frequency": 3,  "unit\_name": "摄氏度",  "create\_by": 2,  "product\_id": 3,  "name": "temp",  "id": 1,  "create\_date": 1516525989000,  "update\_by": 2  },{},{}...  ]  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |

2.7 获取源数据表表结构(Featrue#1414)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 获取源数据表表结构 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | GET | | | | | | |
| Description | 1. 创建数据集时，从数据源表查询表结构，创建完成后，将表结构存入dataset\_schema表； 2. 查到的表结构需要按规则做一下解析，存入dataset\_schema表中的   `column\_type` char(2) NOT NULL COMMENT '列类型（）',`column\_length` int(10) DEFAULT NULL COMMENT '列长度'；   1. 根据字段名和类型过滤 | | | | | | |
| Request | url | /api/data\_set/get\_source\_table\_structure | | | | | |
| params | dataSourceId | | Long | 必填 | | 数据源Id |
| tableName | | String | 必填 | | 数据表名称 |
| filter | | String | 非必填 | | 过滤字段名（前端填写，模糊查询） |
| Type？？ | | String | 非必填 | | 过滤类型名（前端选择，写死还是？） |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data": [  {  "name": "id",  "type": "bigint(20)"  },  {  "name": "name",  "type": "varchar(100)"  },  {  "name": "create\_time",  "type": "datetime"  },{},{},...  ]  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |

2.8获取源数据表的字段类型列表？？？？？（只能查到已有的）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 获取源数据表的字段类型列表 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | GET | | | | | | |
| Description | 1.用于下拉框过滤 | | | | | | |
| Request | url | /api/data\_set/get\_source\_filed\_type | | | | | |
| params | dataSourceId | | Long | 必填 | | 数据源Id |
| tableName | | String | 必填 | | 数据表名称 |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data": [  “varchar(10)”,  “varchar(20)”,  “varchar(100)”,  “bigint(20)”,  “int(10)”,  “tinyint(4)”,  “datetime”,  ]  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |

2.9查询数据集的表结构(Featrue#1424 数据集字段概览)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 获取某数据集对应的数据表的表结构 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | GET | | | | | | |
| Description | 1. 在工作流中查看某数据集的表结构时，根据dataset\_id从dataset\_schema表中查 2. columnType需要定义，meaning需要定义 | | | | | | |
| Request | url | /api/data\_set/get\_structure | | | | | |
| params | dataSetId | | Long | 必填 | | 数据集Id |
| filter | | String | 必填 | | 字段名称（做过滤） |
|  | |  |  | |  |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data": [  {  “id”:1,  “dataSetId”:121,  “columnName”:”id”,  “columnType”:1,  “columnLength”:10,  “columnComment”:”ddddadadsa”,  “meaning”: 1  },{},{},...  ]  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | |
| msg | string | | | 状态信息 | |
| data | string | | | 数据 | |

2.10检查数据表结构(Featrue#1417)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 检查数据表结构 | | | | | | | |
| Access | 需鉴权 | | | | | | | |
| Method | GET | | | | | | | |
| Description | 1.对比dataset\_schema和源数据表中的结构是否一致 | | | | | | | |
| Request | url | /api/data\_set/get\_structure | | | | | | |
| params | dataSetId | | Long | 必填 | | | 数据集Id |
| dataSourceId | | Long | 必填 | | | 数据连接Id |
|  | |  |  | | |  |
|  | |  |  | | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data": {  ”isSame“：false,  “difference”:[  {  “inDataSet”:”varchar(100)”,  “inSource”:”varchar(50)”  },{},  ]  }  } | | | | | {  "msg": "success",  "code": 0,  "data": {  ”isSame“：true,  “difference”:[]  }  } | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、 | | |
| msg | string | | | 状态信息 | | |
| data | string | | | 数据 | | |

(Featrue#1416):重新加载数据表结构

(Featrue#1415)功能：预测数据表字段类型对应语义

# 3、数据集预览

3.1预览数据集数据(Feature#1420)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 预览数据集数据 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | GET | | | | | | |
| Description | 1. 工作流中，数据集节点的采样预览；数据加工节点，添加加工步骤后的影响; | | | | | | |
| Request | url | /api/data\_set/preview | | | | | |
| params | workFlowNodeId | | Long | 必填 | | 工作流节点Id |
| samplingMethod | | String | 必填 | | 采样方式 |
| filterOptions | | String | 必填 | | 过滤选项 |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data": 3  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、  50004 数据点重复  50006 数据点异常（存在多个同名数据点） | |
| msg | string | | | 状态信息 | |
| data | string | | | 新添加的采集项Id | |

3.2设置数据集的采样方式(Featrue#1421)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 设置数据集的采样方式 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description |  | | | | | | |
| Request | url | /api/data\_set/update\_sample\_method | | | | | |
| params | nodeId | | Long | 必填 | | 工作流节点id |
| sampleType | | char | 必填 | | 采样方式（0：前n条记录、1：随机n条记录（按个数）、2：随机n条记录（按比例））默认0 |
| sampleTypeValue | | int | 必填 | | 采样数量（采样个数、采样比例）默认采样个数10000 |
| isSampleFilter | | char | 必填 | | 是否采样过滤（0：否、1：是） |
| sampleFilter | | String | 非必填 | | 具体采样过滤方式？？ |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data":  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、  50004 数据点重复  50006 数据点异常（存在多个同名数据点） | |
| msg | string | | | 状态信息 | |
| data | string | | | 新添加的采集项Id | |

3.3更新数据集的语义(Featrue#1422)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 设置数据集的语义 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description |  | | | | | | |
| Request | url | /api/data\_set/update\_meaning | | | | | |
| params | nodeId | | Long | 必填 | | 工作流节点id |
| meaning | | char | 必填 | | 列语义 |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data":  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、  50004 数据点重复  50006 数据点异常（存在多个同名数据点） | |
| msg | string | | | 状态信息 | |
| data | string | | | 新添加的采集项Id | |

3.4统计数据集语义占比(Featrue#1423)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 设置数据集的语义 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description | 有效、无效、非空、空、Min、Max、Median、mean | | | | | | |
| Request | url | /api/data\_set/ | | | | | |
| params | nodeId | | Long | 必填 | | 工作流节点id |
| meaning | | char | 必填 | | 列语义 |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data":  } | | | | | |
|  | code | int | | | 0 success、2 后台服务器异常、10000 missing required input params、  50004 数据点重复  50006 数据点异常（存在多个同名数据点） | |
| msg | string | | | 状态信息 | |
| data | string | | | 新添加的采集项Id | |

3.5导出数据集(Featrue#1426)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 到处数据集 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description | 1.导出数据集列表中某个数据集，包含数据？ | | | | | | |
| Request | url | /api/data\_set/export\_data | | | | | |
| params | dataSetId | | Long | 必填 | | 数据集id |
|  | |  |  | |  |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data":  } | | | | | |
|  | code | int | | |  | |
| msg | string | | | 状态信息 | |
| data | string | | |  | |

3.6导出数据集结构(补充Featrue#1426)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 到处数据集 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description | 1.从前端取？ | | | | | | |
| Request | url | /api/data\_set/export\_structure | | | | | |
| params | dataSetId | | Long | 非必填 | | 数据集id |
|  | |  |  | |  |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data":  } | | | | | |
|  | code | int | | |  | |
| msg | string | | | 状态信息 | |
| data | string | | |  | |

3.7清除数据集数据(Featrue#1427)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 清除数据集数据 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description | 1.对应数据源“是否允许对此连接的原始数据集进行写操作” | | | | | | |
| Request | url | /api/data\_set/clear\_data | | | | | |
| params | dataSetId | | Long | 非必填 | | 数据集id |
|  | |  |  | |  |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data":  } | | | | | |
|  | code | int | | |  | |
| msg | string | | | 状态信息 | |
| data | string | | |  | |

3.8测试数据集(Featrue#1428)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | 测试数据集 | | | | | | |
| Access | 需鉴权 | | | | | | |
| Method | POST | | | | | | |
| Description |  | | | | | | |
| Request | url | /api/data\_set/test | | | | | |
| params | dataSetId | | Long | 非必填 | | 数据集id |
|  | |  |  | |  |
|  | |  |  | |  |
| Response | reslut  JSON | {  "msg": "success",  "code": 0,  "data":  } | | | | | |
|  | code | int | | |  | |
| msg | string | | | 状态信息 | |
| data | string | | |  | |