Authentication

POST /kylin/api/user/authentication

Request Header

Authorization data encoded by basic auth is needed in the header, such as:  
Authorization:Basic {data}  
You can generate {data} by using below python script  
python -c "import base64; print base64.standard\_b64encode('$UserName:$Password')"

Response Body

* userDetails - Defined authorities and status of current user.

Response Sample

{

"userDetails":{

"password":null,

"username":"sample",

"authorities":[

{

"authority":"ROLE\_ANALYST"

},

{

"authority":"ROLE\_MODELER"

}

],

"accountNonExpired":true,

"accountNonLocked":true,

"credentialsNonExpired":true,

"enabled":true

}

}

Curl Example

curl -c /path/to/cookiefile.txt -X POST -H "Authorization: Basic XXXXXXXXX" -H 'Content-Type: application/json' http://<host>:<port>/kylin/api/user/authentication

If login successfully, the JSESSIONID will be saved into the cookie file; In the subsequent http requests, attach the cookie, for example:

curl -b /path/to/cookiefile.txt -X PUT -H 'Content-Type: application/json' -d '{"startTime":'1423526400000', "endTime":'1423612800000', "buildType":"BUILD"}' http://<host>:<port>/kylin/api/cubes/your\_cube/build

Alternatively, you can provide the username/password with option “user” in each curl call; please note this has the risk of password leak in shell history:

curl -X PUT --user ADMIN:KYLIN -H "Content-Type: application/json;charset=utf-8" -d '{ "startTime": 820454400000, "endTime": 821318400000, "buildType": "BUILD"}' http://localhost:7070/kylin/api/cubes/kylin\_sales/build

Query

POST /kylin/api/query

Request Body

* sql - required string The text of sql statement.
* offset - optional int Query offset. If offset is set in sql, curIndex will be ignored.
* limit - optional int Query limit. If limit is set in sql, perPage will be ignored.
* acceptPartial - optional bool Whether accept a partial result or not, default be “false”. Set to “false” for production use.
* project - optional string Project to perform query. Default value is ‘DEFAULT’.

Request Sample

{

"sql":"select \* from TEST\_KYLIN\_FACT",

"offset":0,

"limit":50000,

"acceptPartial":false,

"project":"DEFAULT"

}

Curl Example

curl -X POST -H "Authorization: Basic XXXXXXXXX" -H "Content-Type: application/json" -d '{ "sql":"select count(\*) from TEST\_KYLIN\_FACT", "project":"learn\_kylin" }' http://localhost:7070/kylin/api/query

Response Body

* columnMetas - Column metadata information of result set.
* results - Data set of result.
* cube - Cube used for this query.
* affectedRowCount - Count of affected row by this sql statement.
* isException - Whether this response is an exception.
* ExceptionMessage - Message content of the exception.
* Duration - Time cost of this query
* Partial - Whether the response is a partial result or not. Decided by acceptPartial of request.

Response Sample

{

"columnMetas":[

{

"isNullable":1,

"displaySize":0,

"label":"CAL\_DT",

"name":"CAL\_DT",

"schemaName":null,

"catelogName":null,

"tableName":null,

"precision":0,

"scale":0,

"columnType":91,

"columnTypeName":"DATE",

"readOnly":true,

"writable":false,

"caseSensitive":true,

"searchable":false,

"currency":false,

"signed":true,

"autoIncrement":false,

"definitelyWritable":false

},

{

"isNullable":1,

"displaySize":10,

"label":"LEAF\_CATEG\_ID",

"name":"LEAF\_CATEG\_ID",

"schemaName":null,

"catelogName":null,

"tableName":null,

"precision":10,

"scale":0,

"columnType":4,

"columnTypeName":"INTEGER",

"readOnly":true,

"writable":false,

"caseSensitive":true,

"searchable":false,

"currency":false,

"signed":true,

"autoIncrement":false,

"definitelyWritable":false

}

],

"results":[

[

"2013-08-07",

"32996",

"15",

"15",

"Auction",

"10000000",

"49.048952730908745",

"49.048952730908745",

"49.048952730908745",

"1"

],

[

"2013-08-07",

"43398",

"0",

"14",

"ABIN",

"10000633",

"85.78317064220418",

"85.78317064220418",

"85.78317064220418",

"1"

]

],

"cube":"test\_kylin\_cube\_with\_slr\_desc",

"affectedRowCount":0,

"isException":false,

"exceptionMessage":null,

"duration":3451,

"partial":false

}

List queryable tables

GET /kylin/api/tables\_and\_columns

Request Parameters

* project - required string The project to load tables

Response Sample

[

{

"columns":[

{

"table\_NAME":"TEST\_CAL\_DT",

"table\_SCHEM":"EDW",

"column\_NAME":"CAL\_DT",

"data\_TYPE":91,

"nullable":1,

"column\_SIZE":-1,

"buffer\_LENGTH":-1,

"decimal\_DIGITS":0,

"num\_PREC\_RADIX":10,

"column\_DEF":null,

"sql\_DATA\_TYPE":-1,

"sql\_DATETIME\_SUB":-1,

"char\_OCTET\_LENGTH":-1,

"ordinal\_POSITION":1,

"is\_NULLABLE":"YES",

"scope\_CATLOG":null,

"scope\_SCHEMA":null,

"scope\_TABLE":null,

"source\_DATA\_TYPE":-1,

"iS\_AUTOINCREMENT":null,

"table\_CAT":"defaultCatalog",

"remarks":null,

"type\_NAME":"DATE"

},

{

"table\_NAME":"TEST\_CAL\_DT",

"table\_SCHEM":"EDW",

"column\_NAME":"WEEK\_BEG\_DT",

"data\_TYPE":91,

"nullable":1,

"column\_SIZE":-1,

"buffer\_LENGTH":-1,

"decimal\_DIGITS":0,

"num\_PREC\_RADIX":10,

"column\_DEF":null,

"sql\_DATA\_TYPE":-1,

"sql\_DATETIME\_SUB":-1,

"char\_OCTET\_LENGTH":-1,

"ordinal\_POSITION":2,

"is\_NULLABLE":"YES",

"scope\_CATLOG":null,

"scope\_SCHEMA":null,

"scope\_TABLE":null,

"source\_DATA\_TYPE":-1,

"iS\_AUTOINCREMENT":null,

"table\_CAT":"defaultCatalog",

"remarks":null,

"type\_NAME":"DATE"

}

],

"table\_NAME":"TEST\_CAL\_DT",

"table\_SCHEM":"EDW",

"ref\_GENERATION":null,

"self\_REFERENCING\_COL\_NAME":null,

"type\_SCHEM":null,

"table\_TYPE":"TABLE",

"table\_CAT":"defaultCatalog",

"remarks":null,

"type\_CAT":null,

"type\_NAME":null

}

]

Create cube

POST /kylin/api/cubes

Request Body

* cubeDescData - required string cubeDescData to create
* cubeName - required string cubeName to create
* projectName - required string projectName to which cube belongs

Request Sample

{

"cubeDescData":"{\"uuid\": \"0ef9b7a8-3929-4dff-b59d-2100aadc8dbf\",\"last\_modified\": 0,\"version\": \"3.0.0.20500\",\"name\": \"kylin\_test\_cube\",\"is\_draft\": false,\"model\_name\": \"kylin\_sales\_model\",\"description\": \"\",\"null\_string\": null,\"dimensions\": [{\"name\": \"TRANS\_ID\",\"table\": \"KYLIN\_SALES\",\"column\": \"TRANS\_ID\",\"derived\": null},{\"name\": \"YEAR\_BEG\_DT\",\"table\": \"KYLIN\_CAL\_DT\",\"column\": null,\"derived\": [\"YEAR\_BEG\_DT\"]},{\"name\": \"MONTH\_BEG\_DT\",\"table\": \"KYLIN\_CAL\_DT\",\"column\": null,\"derived\": [\"MONTH\_BEG\_DT\"]},{\"name\": \"WEEK\_BEG\_DT\",\"table\": \"KYLIN\_CAL\_DT\",\"column\": null,\"derived\": [\"WEEK\_BEG\_DT\"]},{\"name\": \"USER\_DEFINED\_FIELD1\",\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"column\": null,\"derived\": [\"USER\_DEFINED\_FIELD1\"]},{\"name\": \"USER\_DEFINED\_FIELD3\",\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"column\": null,\"derived\": [\"USER\_DEFINED\_FIELD3\"]},{\"name\": \"META\_CATEG\_NAME\",\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"column\": \"META\_CATEG\_NAME\",\"derived\": null},{\"name\": \"CATEG\_LVL2\_NAME\",\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"column\": \"CATEG\_LVL2\_NAME\",\"derived\": null},{\"name\": \"CATEG\_LVL3\_NAME\",\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"column\": \"CATEG\_LVL3\_NAME\",\"derived\": null},{\"name\": \"LSTG\_FORMAT\_NAME\",\"table\": \"KYLIN\_SALES\",\"column\": \"LSTG\_FORMAT\_NAME\",\"derived\": null},{\"name\": \"SELLER\_ID\",\"table\": \"KYLIN\_SALES\",\"column\": \"SELLER\_ID\",\"derived\": null},{\"name\": \"BUYER\_ID\",\"table\": \"KYLIN\_SALES\",\"column\": \"BUYER\_ID\",\"derived\": null},{\"name\": \"ACCOUNT\_BUYER\_LEVEL\",\"table\": \"BUYER\_ACCOUNT\",\"column\": \"ACCOUNT\_BUYER\_LEVEL\",\"derived\": null},{\"name\": \"ACCOUNT\_SELLER\_LEVEL\",\"table\": \"SELLER\_ACCOUNT\",\"column\": \"ACCOUNT\_SELLER\_LEVEL\",\"derived\": null},{\"name\": \"BUYER\_COUNTRY\",\"table\": 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"cubeName":"kylin\_test\_cube",

"project":"learn\_kylin"

}

Response Sample

{

"uuid": "7b3faf69-eca8-cc5f-25f9-49b0f0b5d404",

"cubeName": "kylin\_test\_cube",

"cubeDescData":"{\"uuid\": \"0ef9b7a8-3929-4dff-b59d-2100aadc8dbf\",\"last\_modified\": 0,\"version\": \"3.0.0.20500\",\"name\": \"kylin\_test\_cube\",\"is\_draft\": false,\"model\_name\": \"kylin\_sales\_model\",\"description\": \"\",\"null\_string\": null,\"dimensions\": [{\"name\": \"TRANS\_ID\",\"table\": \"KYLIN\_SALES\",\"column\": \"TRANS\_ID\",\"derived\": null},{\"name\": \"YEAR\_BEG\_DT\",\"table\": \"KYLIN\_CAL\_DT\",\"column\": null,\"derived\": [\"YEAR\_BEG\_DT\"]},{\"name\": \"MONTH\_BEG\_DT\",\"table\": \"KYLIN\_CAL\_DT\",\"column\": null,\"derived\": [\"MONTH\_BEG\_DT\"]},{\"name\": \"WEEK\_BEG\_DT\",\"table\": \"KYLIN\_CAL\_DT\",\"column\": null,\"derived\": [\"WEEK\_BEG\_DT\"]},{\"name\": \"USER\_DEFINED\_FIELD1\",\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"column\": null,\"derived\": [\"USER\_DEFINED\_FIELD1\"]},{\"name\": \"USER\_DEFINED\_FIELD3\",\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"column\": null,\"derived\": [\"USER\_DEFINED\_FIELD3\"]},{\"name\": 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\"dict\",\"encoding\_version\": 1,\"isShardBy\": false},{\"column\": \"KYLIN\_SALES.OPS\_REGION\",\"encoding\": \"dict\",\"encoding\_version\": 1,\"isShardBy\": false}]},\"hbase\_mapping\": {\"column\_family\": [{\"name\": \"F1\",\"columns\": [{\"qualifier\": \"M\",\"measure\_refs\": [\"GMV\_SUM\",\"BUYER\_LEVEL\_SUM\",\"SELLER\_LEVEL\_SUM\",\"TRANS\_CNT\"]}]},{\"name\": \"F2\",\"columns\": [{\"qualifier\": \"M\",\"measure\_refs\": [\"SELLER\_CNT\_HLL\",\"TOP\_SELLER\"]}]}]},\"aggregation\_groups\": [{\"includes\": [\"KYLIN\_SALES.PART\_DT\",\"KYLIN\_CATEGORY\_GROUPINGS.META\_CATEG\_NAME\",\"KYLIN\_CATEGORY\_GROUPINGS.CATEG\_LVL2\_NAME\",\"KYLIN\_CATEGORY\_GROUPINGS.CATEG\_LVL3\_NAME\",\"KYLIN\_SALES.LEAF\_CATEG\_ID\",\"KYLIN\_SALES.LSTG\_FORMAT\_NAME\",\"KYLIN\_SALES.LSTG\_SITE\_ID\",\"KYLIN\_SALES.OPS\_USER\_ID\",\"KYLIN\_SALES.OPS\_REGION\",\"BUYER\_ACCOUNT.ACCOUNT\_BUYER\_LEVEL\",\"SELLER\_ACCOUNT.ACCOUNT\_SELLER\_LEVEL\",\"BUYER\_ACCOUNT.ACCOUNT\_COUNTRY\",\"SELLER\_ACCOUNT.ACCOUNT\_COUNTRY\",\"BUYER\_COUNTRY.NAME\",\"SELLER\_COUNTRY.NAME\"],\"select\_rule\": {\"hierarchy\_dims\": [[\"KYLIN\_CATEGORY\_GROUPINGS.META\_CATEG\_NAME\",\"KYLIN\_CATEGORY\_GROUPINGS.CATEG\_LVL2\_NAME\",\"KYLIN\_CATEGORY\_GROUPINGS.CATEG\_LVL3\_NAME\",\"KYLIN\_SALES.LEAF\_CATEG\_ID\"]],\"mandatory\_dims\": [\"KYLIN\_SALES.PART\_DT\"],\"joint\_dims\": [[\"BUYER\_ACCOUNT.ACCOUNT\_COUNTRY\",\"BUYER\_COUNTRY.NAME\"],[\"SELLER\_ACCOUNT.ACCOUNT\_COUNTRY\",\"SELLER\_COUNTRY.NAME\"],[\"BUYER\_ACCOUNT.ACCOUNT\_BUYER\_LEVEL\",\"SELLER\_ACCOUNT.ACCOUNT\_SELLER\_LEVEL\"],[\"KYLIN\_SALES.LSTG\_FORMAT\_NAME\",\"KYLIN\_SALES.LSTG\_SITE\_ID\"],[\"KYLIN\_SALES.OPS\_USER\_ID\",\"KYLIN\_SALES.OPS\_REGION\"]]}}],\"signature\": null,\"notify\_list\": [],\"status\_need\_notify\": [],\"partition\_date\_start\": 1325376000000,\"partition\_date\_end\": 3153600000000,\"auto\_merge\_time\_ranges\": [],\"volatile\_range\": 0,\"retention\_range\": 0,\"engine\_type\": 2,\"storage\_type\": 2,\"override\_kylin\_properties\": {\"kylin.cube.aggrgroup.is-mandatory-only-valid\": \"true\",\"kylin.engine.spark.rdd-partition-cut-mb\": \"500\"},\"cuboid\_black\_list\": [],\"parent\_forward\": 3,\"mandatory\_dimension\_set\_list\": [],\"snapshot\_table\_desc\_list\": []}",

"streamingData": null,

"kafkaData": null,

"successful": true,

"message": null,

"project": "learn\_kylin",

"streamingCube": null

}

List cubes

GET /kylin/api/cubes

Request Parameters

* offset - required int Offset used by pagination
* limit - required int Cubes per page.
* cubeName - optional string Keyword for cube names. To find cubes whose name contains this keyword.
* projectName - optional string Project name.

Response Sample

[

{

"uuid":"1eaca32a-a33e-4b69-83dd-0bb8b1f8c53b",

"last\_modified":1407831634847,

"name":"test\_kylin\_cube\_with\_slr\_empty",

"owner":null,

"version":null,

"descriptor":"test\_kylin\_cube\_with\_slr\_desc",

"cost":50,

"status":"DISABLED",

"segments":[

],

"create\_time":null,

"source\_records\_count":0,

"source\_records\_size":0,

"size\_kb":0

}

]

Get cube

GET /kylin/api/cubes/{cubeName}

Path Variable

* cubeName - required string Cube name to find.

Get cube descriptor

GET /kylin/api/cube\_desc/{cubeName}  
Get descriptor for specified cube instance.

Path Variable

* cubeName - required string Cube name.

Response Sample

[

{

"uuid": "a24ca905-1fc6-4f67-985c-38fa5aeafd92",

"name": "test\_kylin\_cube\_with\_slr\_desc",

"description": null,

"dimensions": [

{

"id": 0,

"name": "CAL\_DT",

"table": "EDW.TEST\_CAL\_DT",

"column": null,

"derived": [

"WEEK\_BEG\_DT"

],

"hierarchy": false

},

{

"id": 1,

"name": "CATEGORY",

"table": "DEFAULT.TEST\_CATEGORY\_GROUPINGS",

"column": null,

"derived": [

"USER\_DEFINED\_FIELD1",

"USER\_DEFINED\_FIELD3",

"UPD\_DATE",

"UPD\_USER"

],

"hierarchy": false

},

{

"id": 2,

"name": "CATEGORY\_HIERARCHY",

"table": "DEFAULT.TEST\_CATEGORY\_GROUPINGS",

"column": [

"META\_CATEG\_NAME",

"CATEG\_LVL2\_NAME",

"CATEG\_LVL3\_NAME"

],

"derived": null,

"hierarchy": true

},

{

"id": 3,

"name": "LSTG\_FORMAT\_NAME",

"table": "DEFAULT.TEST\_KYLIN\_FACT",

"column": [

"LSTG\_FORMAT\_NAME"

],

"derived": null,

"hierarchy": false

},

{

"id": 4,

"name": "SITE\_ID",

"table": "EDW.TEST\_SITES",

"column": null,

"derived": [

"SITE\_NAME",

"CRE\_USER"

],

"hierarchy": false

},

{

"id": 5,

"name": "SELLER\_TYPE\_CD",

"table": "EDW.TEST\_SELLER\_TYPE\_DIM",

"column": null,

"derived": [

"SELLER\_TYPE\_DESC"

],

"hierarchy": false

},

{

"id": 6,

"name": "SELLER\_ID",

"table": "DEFAULT.TEST\_KYLIN\_FACT",

"column": [

"SELLER\_ID"

],

"derived": null,

"hierarchy": false

}

],

"measures": [

{

"id": 1,

"name": "GMV\_SUM",

"function": {

"expression": "SUM",

"parameter": {

"type": "column",

"value": "PRICE",

"next\_parameter": null

},

"returntype": "decimal(19,4)"

},

"dependent\_measure\_ref": null

},

{

"id": 2,

"name": "GMV\_MIN",

"function": {

"expression": "MIN",

"parameter": {

"type": "column",

"value": "PRICE",

"next\_parameter": null

},

"returntype": "decimal(19,4)"

},

"dependent\_measure\_ref": null

},

{

"id": 3,

"name": "GMV\_MAX",

"function": {

"expression": "MAX",

"parameter": {

"type": "column",

"value": "PRICE",

"next\_parameter": null

},

"returntype": "decimal(19,4)"

},

"dependent\_measure\_ref": null

},

{

"id": 4,

"name": "TRANS\_CNT",

"function": {

"expression": "COUNT",

"parameter": {

"type": "constant",

"value": "1",

"next\_parameter": null

},

"returntype": "bigint"

},

"dependent\_measure\_ref": null

},

{

"id": 5,

"name": "ITEM\_COUNT\_SUM",

"function": {

"expression": "SUM",

"parameter": {

"type": "column",

"value": "ITEM\_COUNT",

"next\_parameter": null

},

"returntype": "bigint"

},

"dependent\_measure\_ref": null

}

],

"rowkey": {

"rowkey\_columns": [

{

"column": "SELLER\_ID",

"length": 18,

"dictionary": null,

"mandatory": true

},

{

"column": "CAL\_DT",

"length": 0,

"dictionary": "true",

"mandatory": false

},

{

"column": "LEAF\_CATEG\_ID",

"length": 0,

"dictionary": "true",

"mandatory": false

},

{

"column": "META\_CATEG\_NAME",

"length": 0,

"dictionary": "true",

"mandatory": false

},

{

"column": "CATEG\_LVL2\_NAME",

"length": 0,

"dictionary": "true",

"mandatory": false

},

{

"column": "CATEG\_LVL3\_NAME",

"length": 0,

"dictionary": "true",

"mandatory": false

},

{

"column": "LSTG\_FORMAT\_NAME",

"length": 12,

"dictionary": null,

"mandatory": false

},

{

"column": "LSTG\_SITE\_ID",

"length": 0,

"dictionary": "true",

"mandatory": false

},

{

"column": "SLR\_SEGMENT\_CD",

"length": 0,

"dictionary": "true",

"mandatory": false

}

],

"aggregation\_groups": [

[

"LEAF\_CATEG\_ID",

"META\_CATEG\_NAME",

"CATEG\_LVL2\_NAME",

"CATEG\_LVL3\_NAME",

"CAL\_DT"

]

]

},

"signature": "lsLAl2jL62ZApmOLZqWU3g==",

"last\_modified": 1445850327000,

"model\_name": "test\_kylin\_with\_slr\_model\_desc",

"null\_string": null,

"hbase\_mapping": {

"column\_family": [

{

"name": "F1",

"columns": [

{

"qualifier": "M",

"measure\_refs": [

"GMV\_SUM",

"GMV\_MIN",

"GMV\_MAX",

"TRANS\_CNT",

"ITEM\_COUNT\_SUM"

]

}

]

}

]

},

"notify\_list": null,

"auto\_merge\_time\_ranges": null,

"retention\_range": 0

}

]

Get data model

GET /kylin/api/model/{modelName}

Path Variable

* modelName - required string Data model name, by default it should be the same with cube name.

Response Sample

{

"uuid": "ff527b94-f860-44c3-8452-93b17774c647",

"name": "test\_kylin\_with\_slr\_model\_desc",

"lookups": [

{

"table": "EDW.TEST\_CAL\_DT",

"join": {

"type": "inner",

"primary\_key": [

"CAL\_DT"

],

"foreign\_key": [

"CAL\_DT"

]

}

},

{

"table": "DEFAULT.TEST\_CATEGORY\_GROUPINGS",

"join": {

"type": "inner",

"primary\_key": [

"LEAF\_CATEG\_ID",

"SITE\_ID"

],

"foreign\_key": [

"LEAF\_CATEG\_ID",

"LSTG\_SITE\_ID"

]

}

}

],

"capacity": "MEDIUM",

"last\_modified": 1442372116000,

"fact\_table": "DEFAULT.TEST\_KYLIN\_FACT",

"filter\_condition": null,

"partition\_desc": {

"partition\_date\_column": "DEFAULT.TEST\_KYLIN\_FACT.CAL\_DT",

"partition\_date\_start": 0,

"partition\_date\_format": "yyyy-MM-dd",

"partition\_type": "APPEND",

"partition\_condition\_builder": "org.apache.kylin.metadata.model.PartitionDesc$DefaultPartitionConditionBuilder"

}

}

Build cube

PUT /kylin/api/cubes/{cubeName}/build

Path Variable

* cubeName - required string Cube name.

Request Body

* startTime - required long Start timestamp of data to build, e.g. 1388563200000 for 2014-1-1
* endTime - required long End timestamp of data to build
* buildType - required string Supported build type: ‘BUILD’, ‘MERGE’, ‘REFRESH’

Curl Example

curl -X PUT -H "Authorization: Basic XXXXXXXXX" -H 'Content-Type: application/json' -d '{"startTime":'1423526400000', "endTime":'1423612800000', "buildType":"BUILD"}' http://<host>:<port>/kylin/api/cubes/{cubeName}/build

Response Sample

{

"uuid":"c143e0e4-ac5f-434d-acf3-46b0d15e3dc6",

"last\_modified":1407908916705,

"name":"test\_kylin\_cube\_with\_slr\_empty - 19700101000000\_20140731160000 - BUILD - PDT 2014-08-12 22:48:36",

"type":"BUILD",

"duration":0,

"related\_cube":"test\_kylin\_cube\_with\_slr\_empty",

"related\_segment":"19700101000000\_20140731160000",

"exec\_start\_time":0,

"exec\_end\_time":0,

"mr\_waiting":0,

"steps":[

{

"interruptCmd":null,

"name":"Create Intermediate Flat Hive Table",

"sequence\_id":0,

"exec\_cmd":"hive -e \"DROP TABLE IF EXISTS kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6;\nCREATE EXTERNAL TABLE IF NOT EXISTS kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6\n(\nCAL\_DT date\n,LEAF\_CATEG\_ID int\n,LSTG\_SITE\_ID int\n,META\_CATEG\_NAME string\n,CATEG\_LVL2\_NAME string\n,CATEG\_LVL3\_NAME string\n,LSTG\_FORMAT\_NAME string\n,SLR\_SEGMENT\_CD smallint\n,SELLER\_ID bigint\n,PRICE decimal\n)\nROW FORMAT DELIMITED FIELDS TERMINATED BY '\\177'\nSTORED AS SEQUENCEFILE\nLOCATION '/tmp/kylin-c143e0e4-ac5f-434d-acf3-46b0d15e3dc6/kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6';\nSET mapreduce.job.split.metainfo.maxsize=-1;\nSET mapred.compress.map.output=true;\nSET mapred.map.output.compression.codec=com.hadoop.compression.lzo.LzoCodec;\nSET mapred.output.compress=true;\nSET mapred.output.compression.codec=com.hadoop.compression.lzo.LzoCodec;\nSET mapred.output.compression.type=BLOCK;\nSET mapreduce.job.max.split.locations=2000;\nSET hive.exec.compress.output=true;\nSET hive.auto.convert.join.noconditionaltask = true;\nSET hive.auto.convert.join.noconditionaltask.size = 300000000;\nINSERT OVERWRITE TABLE kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6\nSELECT\nTEST\_KYLIN\_FACT.CAL\_DT\n,TEST\_KYLIN\_FACT.LEAF\_CATEG\_ID\n,TEST\_KYLIN\_FACT.LSTG\_SITE\_ID\n,TEST\_CATEGORY\_GROUPINGS.META\_CATEG\_NAME\n,TEST\_CATEGORY\_GROUPINGS.CATEG\_LVL2\_NAME\n,TEST\_CATEGORY\_GROUPINGS.CATEG\_LVL3\_NAME\n,TEST\_KYLIN\_FACT.LSTG\_FORMAT\_NAME\n,TEST\_KYLIN\_FACT.SLR\_SEGMENT\_CD\n,TEST\_KYLIN\_FACT.SELLER\_ID\n,TEST\_KYLIN\_FACT.PRICE\nFROM TEST\_KYLIN\_FACT\nINNER JOIN TEST\_CAL\_DT\nON TEST\_KYLIN\_FACT.CAL\_DT = TEST\_CAL\_DT.CAL\_DT\nINNER JOIN TEST\_CATEGORY\_GROUPINGS\nON TEST\_KYLIN\_FACT.LEAF\_CATEG\_ID = TEST\_CATEGORY\_GROUPINGS.LEAF\_CATEG\_ID AND TEST\_KYLIN\_FACT.LSTG\_SITE\_ID = TEST\_CATEGORY\_GROUPINGS.SITE\_ID\nINNER JOIN TEST\_SITES\nON TEST\_KYLIN\_FACT.LSTG\_SITE\_ID = TEST\_SITES.SITE\_ID\nINNER JOIN TEST\_SELLER\_TYPE\_DIM\nON TEST\_KYLIN\_FACT.SLR\_SEGMENT\_CD = TEST\_SELLER\_TYPE\_DIM.SELLER\_TYPE\_CD\nWHERE (test\_kylin\_fact.cal\_dt < '2014-07-31 16:00:00')\n;\n\"",

"interrupt\_cmd":null,

"exec\_start\_time":0,

"exec\_end\_time":0,

"exec\_wait\_time":0,

"step\_status":"PENDING",

"cmd\_type":"SHELL\_CMD\_HADOOP",

"info":null,

"run\_async":false

},

{

"interruptCmd":null,

"name":"Extract Fact Table Distinct Columns",

"sequence\_id":1,

"exec\_cmd":" -conf C:/kylin/Kylin/server/src/main/resources/hadoop\_job\_conf\_medium.xml -cubename test\_kylin\_cube\_with\_slr\_empty -input /tmp/kylin-c143e0e4-ac5f-434d-acf3-46b0d15e3dc6/kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6 -output /tmp/kylin-c143e0e4-ac5f-434d-acf3-46b0d15e3dc6/test\_kylin\_cube\_with\_slr\_empty/fact\_distinct\_columns -jobname Kylin\_Fact\_Distinct\_Columns\_test\_kylin\_cube\_with\_slr\_empty\_Step\_1",

"interrupt\_cmd":null,

"exec\_start\_time":0,

"exec\_end\_time":0,

"exec\_wait\_time":0,

"step\_status":"PENDING",

"cmd\_type":"JAVA\_CMD\_HADOOP\_FACTDISTINCT",

"info":null,

"run\_async":true

},

{

"interruptCmd":null,

"name":"Load HFile to HBase Table",

"sequence\_id":12,

"exec\_cmd":" -input /tmp/kylin-c143e0e4-ac5f-434d-acf3-46b0d15e3dc6/test\_kylin\_cube\_with\_slr\_empty/hfile/ -htablename KYLIN-CUBE-TEST\_KYLIN\_CUBE\_WITH\_SLR\_EMPTY-19700101000000\_20140731160000\_11BB4326-5975-4358-804C-70D53642E03A -cubename test\_kylin\_cube\_with\_slr\_empty",

"interrupt\_cmd":null,

"exec\_start\_time":0,

"exec\_end\_time":0,

"exec\_wait\_time":0,

"step\_status":"PENDING",

"cmd\_type":"JAVA\_CMD\_HADOOP\_NO\_MR\_BULKLOAD",

"info":null,

"run\_async":false

}

],

"job\_status":"PENDING",

"progress":0.0

}

Enable Cube

PUT /kylin/api/cubes/{cubeName}/enable

Path variable

* cubeName - required string Cube name.

Response Sample

{

"uuid":"1eaca32a-a33e-4b69-83dd-0bb8b1f8c53b",

"last\_modified":1407909046305,

"name":"test\_kylin\_cube\_with\_slr\_ready",

"owner":null,

"version":null,

"descriptor":"test\_kylin\_cube\_with\_slr\_desc",

"cost":50,

"status":"ACTIVE",

"segments":[

{

"name":"19700101000000\_20140531160000",

"storage\_location\_identifier":"KYLIN-CUBE-TEST\_KYLIN\_CUBE\_WITH\_SLR\_READY-19700101000000\_20140531160000\_BF043D2D-9A4A-45E9-AA59-5A17D3F34A50",

"date\_range\_start":0,

"date\_range\_end":1401552000000,

"status":"READY",

"size\_kb":4758,

"source\_records":6000,

"source\_records\_size":620356,

"last\_build\_time":1407832663227,

"last\_build\_job\_id":"2c7a2b63-b052-4a51-8b09-0c24b5792cda",

"binary\_signature":null,

"dictionaries":{

"TEST\_CATEGORY\_GROUPINGS/CATEG\_LVL2\_NAME":"/dict/TEST\_CATEGORY\_GROUPINGS/CATEG\_LVL2\_NAME/16d8185c-ee6b-4f8c-a919-756d9809f937.dict",

"TEST\_KYLIN\_FACT/LSTG\_SITE\_ID":"/dict/TEST\_SITES/SITE\_ID/0bec6bb3-1b0d-469c-8289-b8c4ca5d5001.dict",

"TEST\_KYLIN\_FACT/SLR\_SEGMENT\_CD":"/dict/TEST\_SELLER\_TYPE\_DIM/SELLER\_TYPE\_CD/0c5d77ec-316b-47e0-ba9a-0616be890ad6.dict",

"TEST\_KYLIN\_FACT/CAL\_DT":"/dict/PREDEFINED/date(yyyy-mm-dd)/64ac4f82-f2af-476e-85b9-f0805001014e.dict",

"TEST\_CATEGORY\_GROUPINGS/CATEG\_LVL3\_NAME":"/dict/TEST\_CATEGORY\_GROUPINGS/CATEG\_LVL3\_NAME/270fbfb0-281c-4602-8413-2970a7439c47.dict",

"TEST\_KYLIN\_FACT/LEAF\_CATEG\_ID":"/dict/TEST\_CATEGORY\_GROUPINGS/LEAF\_CATEG\_ID/2602386c-debb-4968-8d2f-b52b8215e385.dict",

"TEST\_CATEGORY\_GROUPINGS/META\_CATEG\_NAME":"/dict/TEST\_CATEGORY\_GROUPINGS/META\_CATEG\_NAME/0410d2c4-4686-40bc-ba14-170042a2de94.dict"

},

"snapshots":{

"TEST\_CAL\_DT":"/table\_snapshot/TEST\_CAL\_DT.csv/8f7cfc8a-020d-4019-b419-3c6deb0ffaa0.snapshot",

"TEST\_SELLER\_TYPE\_DIM":"/table\_snapshot/TEST\_SELLER\_TYPE\_DIM.csv/c60fd05e-ac94-4016-9255-96521b273b81.snapshot",

"TEST\_CATEGORY\_GROUPINGS":"/table\_snapshot/TEST\_CATEGORY\_GROUPINGS.csv/363f4a59-b725-4459-826d-3188bde6a971.snapshot",

"TEST\_SITES":"/table\_snapshot/TEST\_SITES.csv/78e0aecc-3ec6-4406-b86e-bac4b10ea63b.snapshot"

}

}

],

"create\_time":null,

"source\_records\_count":6000,

"source\_records\_size":0,

"size\_kb":4758

}

Disable Cube

PUT /kylin/api/cubes/{cubeName}/disable

Path variable

* cubeName - required string Cube name.

Response Sample

(Same as “Enable Cube”)

Purge Cube

PUT /kylin/api/cubes/{cubeName}/purge

Path variable

* cubeName - required string Cube name.

Response Sample

(Same as “Enable Cube”)

Delete Segment

DELETE /kylin/api/cubes/{cubeName}/segs/{segmentName}

Create Model

POST /kylin/api/models

Request Body

* modelDescData - required string modelDescData to create
* modelName - required string modelName to create
* projectName - required string projectName to which model belongs

Request Sample

{

"modelDescData": "{\"uuid\": \"0928468a-9fab-4185-9a14-6f2e7c74823f\",\"last\_modified\": 0,\"version\": \"3.0.0.20500\",\"name\": \"kylin\_test\_model\",\"owner\": null,\"is\_draft\": false,\"description\": \"\",\"fact\_table\": \"DEFAULT.KYLIN\_SALES\",\"lookups\": [{\"table\": \"DEFAULT.KYLIN\_CAL\_DT\",\"kind\": \"LOOKUP\",\"alias\": \"KYLIN\_CAL\_DT\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"KYLIN\_CAL\_DT.CAL\_DT\"],\"foreign\_key\": [\"KYLIN\_SALES.PART\_DT\"]}},{\"table\": \"DEFAULT.KYLIN\_CATEGORY\_GROUPINGS\",\"kind\": \"LOOKUP\",\"alias\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"KYLIN\_CATEGORY\_GROUPINGS.LEAF\_CATEG\_ID\",\"KYLIN\_CATEGORY\_GROUPINGS.SITE\_ID\"],\"foreign\_key\": [\"KYLIN\_SALES.LEAF\_CATEG\_ID\",\"KYLIN\_SALES.LSTG\_SITE\_ID\"]}},{\"table\": \"DEFAULT.KYLIN\_ACCOUNT\",\"kind\": \"LOOKUP\",\"alias\": \"BUYER\_ACCOUNT\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"BUYER\_ACCOUNT.ACCOUNT\_ID\"],\"foreign\_key\": [\"KYLIN\_SALES.BUYER\_ID\"]}},{\"table\": \"DEFAULT.KYLIN\_ACCOUNT\",\"kind\": \"LOOKUP\",\"alias\": \"SELLER\_ACCOUNT\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"SELLER\_ACCOUNT.ACCOUNT\_ID\"],\"foreign\_key\": [\"KYLIN\_SALES.SELLER\_ID\"]}},{\"table\": \"DEFAULT.KYLIN\_COUNTRY\",\"kind\": \"LOOKUP\",\"alias\": \"BUYER\_COUNTRY\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"BUYER\_COUNTRY.COUNTRY\"],\"foreign\_key\": [\"BUYER\_ACCOUNT.ACCOUNT\_COUNTRY\"]}},{\"table\": \"DEFAULT.KYLIN\_COUNTRY\",\"kind\": \"LOOKUP\",\"alias\": \"SELLER\_COUNTRY\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"SELLER\_COUNTRY.COUNTRY\"],\"foreign\_key\": [\"SELLER\_ACCOUNT.ACCOUNT\_COUNTRY\"]}}],\"dimensions\": [{\"table\": \"KYLIN\_SALES\",\"columns\": [\"TRANS\_ID\",\"SELLER\_ID\",\"BUYER\_ID\",\"PART\_DT\",\"LEAF\_CATEG\_ID\",\"LSTG\_FORMAT\_NAME\",\"LSTG\_SITE\_ID\",\"OPS\_USER\_ID\",\"OPS\_REGION\"]},{\"table\": \"KYLIN\_CAL\_DT\",\"columns\": [\"CAL\_DT\",\"WEEK\_BEG\_DT\",\"MONTH\_BEG\_DT\",\"YEAR\_BEG\_DT\"]},{\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"columns\": [\"USER\_DEFINED\_FIELD1\",\"USER\_DEFINED\_FIELD3\",\"META\_CATEG\_NAME\",\"CATEG\_LVL2\_NAME\",\"CATEG\_LVL3\_NAME\",\"LEAF\_CATEG\_ID\",\"SITE\_ID\"]},{\"table\": \"BUYER\_ACCOUNT\",\"columns\": [\"ACCOUNT\_ID\",\"ACCOUNT\_BUYER\_LEVEL\",\"ACCOUNT\_SELLER\_LEVEL\",\"ACCOUNT\_COUNTRY\",\"ACCOUNT\_CONTACT\"]},{\"table\": \"SELLER\_ACCOUNT\",\"columns\": [\"ACCOUNT\_ID\",\"ACCOUNT\_BUYER\_LEVEL\",\"ACCOUNT\_SELLER\_LEVEL\",\"ACCOUNT\_COUNTRY\",\"ACCOUNT\_CONTACT\"]},{\"table\": \"BUYER\_COUNTRY\",\"columns\": [\"COUNTRY\",\"NAME\"]},{\"table\": \"SELLER\_COUNTRY\",\"columns\": [\"COUNTRY\",\"NAME\"]}],\"metrics\": [\"KYLIN\_SALES.PRICE\",\"KYLIN\_SALES.ITEM\_COUNT\"],\"filter\_condition\": \"\",\"partition\_desc\": {\"partition\_date\_column\": \"KYLIN\_SALES.PART\_DT\",\"partition\_time\_column\": null,\"partition\_date\_start\": 1325376000000,\"partition\_date\_format\": \"yyyy-MM-dd\",\"partition\_time\_format\": \"HH:mm:ss\",\"partition\_type\": \"APPEND\",\"partition\_condition\_builder\": \"org.apache.kylin.metadata.model.PartitionDesc$DefaultPartitionConditionBuilder\"},\"capacity\": \"MEDIUM\"}",

"modelName": "kylin\_test\_model",

"project": "learn\_kylin"

}

Response Sample

{

"uuid": "2613d739-14c1-38ac-2e37-f36e46fd9976",

"modelName": "kylin\_test\_model",

"modelDescData": "{\"uuid\": \"0928468a-9fab-4185-9a14-6f2e7c74823f\",\"last\_modified\": 0,\"version\": \"3.0.0.20500\",\"name\": \"kylin\_test\_model\",\"owner\": null,\"is\_draft\": false,\"description\": \"\",\"fact\_table\": \"DEFAULT.KYLIN\_SALES\",\"lookups\": [{\"table\": \"DEFAULT.KYLIN\_CAL\_DT\",\"kind\": \"LOOKUP\",\"alias\": \"KYLIN\_CAL\_DT\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"KYLIN\_CAL\_DT.CAL\_DT\"],\"foreign\_key\": [\"KYLIN\_SALES.PART\_DT\"]}},{\"table\": \"DEFAULT.KYLIN\_CATEGORY\_GROUPINGS\",\"kind\": \"LOOKUP\",\"alias\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"KYLIN\_CATEGORY\_GROUPINGS.LEAF\_CATEG\_ID\",\"KYLIN\_CATEGORY\_GROUPINGS.SITE\_ID\"],\"foreign\_key\": [\"KYLIN\_SALES.LEAF\_CATEG\_ID\",\"KYLIN\_SALES.LSTG\_SITE\_ID\"]}},{\"table\": \"DEFAULT.KYLIN\_ACCOUNT\",\"kind\": \"LOOKUP\",\"alias\": \"BUYER\_ACCOUNT\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"BUYER\_ACCOUNT.ACCOUNT\_ID\"],\"foreign\_key\": [\"KYLIN\_SALES.BUYER\_ID\"]}},{\"table\": \"DEFAULT.KYLIN\_ACCOUNT\",\"kind\": \"LOOKUP\",\"alias\": \"SELLER\_ACCOUNT\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"SELLER\_ACCOUNT.ACCOUNT\_ID\"],\"foreign\_key\": [\"KYLIN\_SALES.SELLER\_ID\"]}},{\"table\": \"DEFAULT.KYLIN\_COUNTRY\",\"kind\": \"LOOKUP\",\"alias\": \"BUYER\_COUNTRY\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"BUYER\_COUNTRY.COUNTRY\"],\"foreign\_key\": [\"BUYER\_ACCOUNT.ACCOUNT\_COUNTRY\"]}},{\"table\": \"DEFAULT.KYLIN\_COUNTRY\",\"kind\": \"LOOKUP\",\"alias\": \"SELLER\_COUNTRY\",\"join\": {\"type\": \"inner\",\"primary\_key\": [\"SELLER\_COUNTRY.COUNTRY\"],\"foreign\_key\": [\"SELLER\_ACCOUNT.ACCOUNT\_COUNTRY\"]}}],\"dimensions\": [{\"table\": \"KYLIN\_SALES\",\"columns\": [\"TRANS\_ID\",\"SELLER\_ID\",\"BUYER\_ID\",\"PART\_DT\",\"LEAF\_CATEG\_ID\",\"LSTG\_FORMAT\_NAME\",\"LSTG\_SITE\_ID\",\"OPS\_USER\_ID\",\"OPS\_REGION\"]},{\"table\": \"KYLIN\_CAL\_DT\",\"columns\": [\"CAL\_DT\",\"WEEK\_BEG\_DT\",\"MONTH\_BEG\_DT\",\"YEAR\_BEG\_DT\"]},{\"table\": \"KYLIN\_CATEGORY\_GROUPINGS\",\"columns\": [\"USER\_DEFINED\_FIELD1\",\"USER\_DEFINED\_FIELD3\",\"META\_CATEG\_NAME\",\"CATEG\_LVL2\_NAME\",\"CATEG\_LVL3\_NAME\",\"LEAF\_CATEG\_ID\",\"SITE\_ID\"]},{\"table\": \"BUYER\_ACCOUNT\",\"columns\": [\"ACCOUNT\_ID\",\"ACCOUNT\_BUYER\_LEVEL\",\"ACCOUNT\_SELLER\_LEVEL\",\"ACCOUNT\_COUNTRY\",\"ACCOUNT\_CONTACT\"]},{\"table\": \"SELLER\_ACCOUNT\",\"columns\": [\"ACCOUNT\_ID\",\"ACCOUNT\_BUYER\_LEVEL\",\"ACCOUNT\_SELLER\_LEVEL\",\"ACCOUNT\_COUNTRY\",\"ACCOUNT\_CONTACT\"]},{\"table\": \"BUYER\_COUNTRY\",\"columns\": [\"COUNTRY\",\"NAME\"]},{\"table\": \"SELLER\_COUNTRY\",\"columns\": [\"COUNTRY\",\"NAME\"]}],\"metrics\": [\"KYLIN\_SALES.PRICE\",\"KYLIN\_SALES.ITEM\_COUNT\"],\"filter\_condition\": \"\",\"partition\_desc\": {\"partition\_date\_column\": \"KYLIN\_SALES.PART\_DT\",\"partition\_time\_column\": null,\"partition\_date\_start\": 1325376000000,\"partition\_date\_format\": \"yyyy-MM-dd\",\"partition\_time\_format\": \"HH:mm:ss\",\"partition\_type\": \"APPEND\",\"partition\_condition\_builder\": \"org.apache.kylin.metadata.model.PartitionDesc$DefaultPartitionConditionBuilder\"},\"capacity\": \"MEDIUM\"}",

"successful": true,

"message": null,

"project": "learn\_kylin",

"ccInCheck": null,

"seekingExprAdvice": false

}

Get ModelDescData

GET /kylin/api/models

Request Parameters

* modelName - optional string Model name.
* projectName - optional string Project Name.
* limit - optional integer Offset used by pagination
* offset - optional integer Models per page

Response Sample

[

{

"uuid": "0928468a-9fab-4185-9a14-6f2e7c74823f",

"last\_modified": 1568862496000,

"version": "3.0.0.20500",

"name": "kylin\_sales\_model",

"owner": null,

"is\_draft": false,

"description": "",

"fact\_table": "DEFAULT.KYLIN\_SALES",

"lookups": [

{

"table": "DEFAULT.KYLIN\_CAL\_DT",

"kind": "LOOKUP",

"alias": "KYLIN\_CAL\_DT",

"join": {

"type": "inner",

"primary\_key": [

"KYLIN\_CAL\_DT.CAL\_DT"

],

"foreign\_key": [

"KYLIN\_SALES.PART\_DT"

]

}

},

{

"table": "DEFAULT.KYLIN\_CATEGORY\_GROUPINGS",

"kind": "LOOKUP",

"alias": "KYLIN\_CATEGORY\_GROUPINGS",

"join": {

"type": "inner",

"primary\_key": [

"KYLIN\_CATEGORY\_GROUPINGS.LEAF\_CATEG\_ID",

"KYLIN\_CATEGORY\_GROUPINGS.SITE\_ID"

],

"foreign\_key": [

"KYLIN\_SALES.LEAF\_CATEG\_ID",

"KYLIN\_SALES.LSTG\_SITE\_ID"

]

}

},

{

"table": "DEFAULT.KYLIN\_ACCOUNT",

"kind": "LOOKUP",

"alias": "BUYER\_ACCOUNT",

"join": {

"type": "inner",

"primary\_key": [

"BUYER\_ACCOUNT.ACCOUNT\_ID"

],

"foreign\_key": [

"KYLIN\_SALES.BUYER\_ID"

]

}

},

{

"table": "DEFAULT.KYLIN\_ACCOUNT",

"kind": "LOOKUP",

"alias": "SELLER\_ACCOUNT",

"join": {

"type": "inner",

"primary\_key": [

"SELLER\_ACCOUNT.ACCOUNT\_ID"

],

"foreign\_key": [

"KYLIN\_SALES.SELLER\_ID"

]

}

},

{

"table": "DEFAULT.KYLIN\_COUNTRY",

"kind": "LOOKUP",

"alias": "BUYER\_COUNTRY",

"join": {

"type": "inner",

"primary\_key": [

"BUYER\_COUNTRY.COUNTRY"

],

"foreign\_key": [

"BUYER\_ACCOUNT.ACCOUNT\_COUNTRY"

]

}

},

{

"table": "DEFAULT.KYLIN\_COUNTRY",

"kind": "LOOKUP",

"alias": "SELLER\_COUNTRY",

"join": {

"type": "inner",

"primary\_key": [

"SELLER\_COUNTRY.COUNTRY"

],

"foreign\_key": [

"SELLER\_ACCOUNT.ACCOUNT\_COUNTRY"

]

}

}

],

"dimensions": [

{

"table": "KYLIN\_SALES",

"columns": [

"TRANS\_ID",

"SELLER\_ID",

"BUYER\_ID",

"PART\_DT",

"LEAF\_CATEG\_ID",

"LSTG\_FORMAT\_NAME",

"LSTG\_SITE\_ID",

"OPS\_USER\_ID",

"OPS\_REGION"

]

},

{

"table": "KYLIN\_CAL\_DT",

"columns": [

"CAL\_DT",

"WEEK\_BEG\_DT",

"MONTH\_BEG\_DT",

"YEAR\_BEG\_DT"

]

},

{

"table": "KYLIN\_CATEGORY\_GROUPINGS",

"columns": [

"USER\_DEFINED\_FIELD1",

"USER\_DEFINED\_FIELD3",

"META\_CATEG\_NAME",

"CATEG\_LVL2\_NAME",

"CATEG\_LVL3\_NAME",

"LEAF\_CATEG\_ID",

"SITE\_ID"

]

},

{

"table": "BUYER\_ACCOUNT",

"columns": [

"ACCOUNT\_ID",

"ACCOUNT\_BUYER\_LEVEL",

"ACCOUNT\_SELLER\_LEVEL",

"ACCOUNT\_COUNTRY",

"ACCOUNT\_CONTACT"

]

},

{

"table": "SELLER\_ACCOUNT",

"columns": [

"ACCOUNT\_ID",

"ACCOUNT\_BUYER\_LEVEL",

"ACCOUNT\_SELLER\_LEVEL",

"ACCOUNT\_COUNTRY",

"ACCOUNT\_CONTACT"

]

},

{

"table": "BUYER\_COUNTRY",

"columns": [

"COUNTRY",

"NAME"

]

},

{

"table": "SELLER\_COUNTRY",

"columns": [

"COUNTRY",

"NAME"

]

}

],

"metrics": [

"KYLIN\_SALES.PRICE",

"KYLIN\_SALES.ITEM\_COUNT"

],

"filter\_condition": "",

"partition\_desc": {

"partition\_date\_column": "KYLIN\_SALES.PART\_DT",

"partition\_time\_column": null,

"partition\_date\_start": 1325376000000,

"partition\_date\_format": "yyyy-MM-dd",

"partition\_time\_format": "HH:mm:ss",

"partition\_type": "APPEND",

"partition\_condition\_builder": "org.apache.kylin.metadata.model.PartitionDesc$DefaultPartitionConditionBuilder"

},

"capacity": "MEDIUM"

}

]

Delete Model

DELETE /kylin/api/models/{modelName}

Path variable

* modelName - required string Model name.

Resume Job

PUT /kylin/api/jobs/{jobId}/resume

Path variable

* jobId - required string Job id.

Response Sample

{

"uuid":"c143e0e4-ac5f-434d-acf3-46b0d15e3dc6",

"last\_modified":1407908916705,

"name":"test\_kylin\_cube\_with\_slr\_empty - 19700101000000\_20140731160000 - BUILD - PDT 2014-08-12 22:48:36",

"type":"BUILD",

"duration":0,

"related\_cube":"test\_kylin\_cube\_with\_slr\_empty",

"related\_segment":"19700101000000\_20140731160000",

"exec\_start\_time":0,

"exec\_end\_time":0,

"mr\_waiting":0,

"steps":[

{

"interruptCmd":null,

"name":"Create Intermediate Flat Hive Table",

"sequence\_id":0,

"exec\_cmd":"hive -e \"DROP TABLE IF EXISTS kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6;\nCREATE EXTERNAL TABLE IF NOT EXISTS kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6\n(\nCAL\_DT date\n,LEAF\_CATEG\_ID int\n,LSTG\_SITE\_ID int\n,META\_CATEG\_NAME string\n,CATEG\_LVL2\_NAME string\n,CATEG\_LVL3\_NAME string\n,LSTG\_FORMAT\_NAME string\n,SLR\_SEGMENT\_CD smallint\n,SELLER\_ID bigint\n,PRICE decimal\n)\nROW FORMAT DELIMITED FIELDS TERMINATED BY '\\177'\nSTORED AS SEQUENCEFILE\nLOCATION '/tmp/kylin-c143e0e4-ac5f-434d-acf3-46b0d15e3dc6/kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6';\nSET mapreduce.job.split.metainfo.maxsize=-1;\nSET mapred.compress.map.output=true;\nSET mapred.map.output.compression.codec=com.hadoop.compression.lzo.LzoCodec;\nSET mapred.output.compress=true;\nSET mapred.output.compression.codec=com.hadoop.compression.lzo.LzoCodec;\nSET mapred.output.compression.type=BLOCK;\nSET mapreduce.job.max.split.locations=2000;\nSET hive.exec.compress.output=true;\nSET hive.auto.convert.join.noconditionaltask = true;\nSET hive.auto.convert.join.noconditionaltask.size = 300000000;\nINSERT OVERWRITE TABLE kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6\nSELECT\nTEST\_KYLIN\_FACT.CAL\_DT\n,TEST\_KYLIN\_FACT.LEAF\_CATEG\_ID\n,TEST\_KYLIN\_FACT.LSTG\_SITE\_ID\n,TEST\_CATEGORY\_GROUPINGS.META\_CATEG\_NAME\n,TEST\_CATEGORY\_GROUPINGS.CATEG\_LVL2\_NAME\n,TEST\_CATEGORY\_GROUPINGS.CATEG\_LVL3\_NAME\n,TEST\_KYLIN\_FACT.LSTG\_FORMAT\_NAME\n,TEST\_KYLIN\_FACT.SLR\_SEGMENT\_CD\n,TEST\_KYLIN\_FACT.SELLER\_ID\n,TEST\_KYLIN\_FACT.PRICE\nFROM TEST\_KYLIN\_FACT\nINNER JOIN TEST\_CAL\_DT\nON TEST\_KYLIN\_FACT.CAL\_DT = TEST\_CAL\_DT.CAL\_DT\nINNER JOIN TEST\_CATEGORY\_GROUPINGS\nON TEST\_KYLIN\_FACT.LEAF\_CATEG\_ID = TEST\_CATEGORY\_GROUPINGS.LEAF\_CATEG\_ID AND TEST\_KYLIN\_FACT.LSTG\_SITE\_ID = TEST\_CATEGORY\_GROUPINGS.SITE\_ID\nINNER JOIN TEST\_SITES\nON TEST\_KYLIN\_FACT.LSTG\_SITE\_ID = TEST\_SITES.SITE\_ID\nINNER JOIN TEST\_SELLER\_TYPE\_DIM\nON TEST\_KYLIN\_FACT.SLR\_SEGMENT\_CD = TEST\_SELLER\_TYPE\_DIM.SELLER\_TYPE\_CD\nWHERE (test\_kylin\_fact.cal\_dt < '2014-07-31 16:00:00')\n;\n\"",

"interrupt\_cmd":null,

"exec\_start\_time":0,

"exec\_end\_time":0,

"exec\_wait\_time":0,

"step\_status":"PENDING",

"cmd\_type":"SHELL\_CMD\_HADOOP",

"info":null,

"run\_async":false

},

{

"interruptCmd":null,

"name":"Extract Fact Table Distinct Columns",

"sequence\_id":1,

"exec\_cmd":" -conf C:/kylin/Kylin/server/src/main/resources/hadoop\_job\_conf\_medium.xml -cubename test\_kylin\_cube\_with\_slr\_empty -input /tmp/kylin-c143e0e4-ac5f-434d-acf3-46b0d15e3dc6/kylin\_intermediate\_test\_kylin\_cube\_with\_slr\_desc\_19700101000000\_20140731160000\_c143e0e4\_ac5f\_434d\_acf3\_46b0d15e3dc6 -output /tmp/kylin-c143e0e4-ac5f-434d-acf3-46b0d15e3dc6/test\_kylin\_cube\_with\_slr\_empty/fact\_distinct\_columns -jobname Kylin\_Fact\_Distinct\_Columns\_test\_kylin\_cube\_with\_slr\_empty\_Step\_1",

"interrupt\_cmd":null,

"exec\_start\_time":0,

"exec\_end\_time":0,

"exec\_wait\_time":0,

"step\_status":"PENDING",

"cmd\_type":"JAVA\_CMD\_HADOOP\_FACTDISTINCT",

"info":null,

"run\_async":true

},

{

"interruptCmd":null,

"name":"Load HFile to HBase Table",

"sequence\_id":12,

"exec\_cmd":" -input /tmp/kylin-c143e0e4-ac5f-434d-acf3-46b0d15e3dc6/test\_kylin\_cube\_with\_slr\_empty/hfile/ -htablename KYLIN-CUBE-TEST\_KYLIN\_CUBE\_WITH\_SLR\_EMPTY-19700101000000\_20140731160000\_11BB4326-5975-4358-804C-70D53642E03A -cubename test\_kylin\_cube\_with\_slr\_empty",

"interrupt\_cmd":null,

"exec\_start\_time":0,

"exec\_end\_time":0,

"exec\_wait\_time":0,

"step\_status":"PENDING",

"cmd\_type":"JAVA\_CMD\_HADOOP\_NO\_MR\_BULKLOAD",

"info":null,

"run\_async":false

}

],

"job\_status":"PENDING",

"progress":0.0

}

## Pause Job  
PUT /kylin/api/jobs/{jobId}/pause

Path variable

* jobId - required string Job id.

Discard Job

PUT /kylin/api/jobs/{jobId}/cancel

Path variable

* jobId - required string Job id.

Drop Job

DELETE /kylin/api/jobs/{jobId}/drop

Path variable

* jobId - required string Job id.

Get Job Status

GET /kylin/api/jobs/{jobId}

Path variable

* jobId - required string Job id.

Response Sample

(Same as “Resume Job”)

Get job step output

GET /kylin/api/jobs/{jobId}/steps/{stepId}/output

Path Variable

* jobId - required string Job id.
* stepId - required string Step id; the step id is composed by jobId with step sequence id; for example, the jobId is “fb479e54-837f-49a2-b457-651fc50be110”, its 3rd step id is “fb479e54-837f-49a2-b457-651fc50be110-3”,

Response Sample

{

"cmd\_output":"log string"

}

Get job list

GET /kylin/api/jobs

Request Variables

* cubeName - optional string Cube name.
* projectName - required string Project name.
* status - optional int Job status, e.g. (NEW: 0, PENDING: 1, RUNNING: 2, STOPPED: 32, FINISHED: 4, ERROR: 8, DISCARDED: 16)
* offset - required int Offset used by pagination.
* limit - required int Jobs per page.
* timeFilter - required int, e.g. (LAST ONE DAY: 0, LAST ONE WEEK: 1, LAST ONE MONTH: 2, LAST ONE YEAR: 3, ALL: 4)

For example, to get the job list in project ‘learn\_kylin’ for cube ‘kylin\_sales\_cube’ in lastone week:

GET: /kylin/api/jobs?cubeName=kylin\_sales\_cube&limit=15&offset=0&projectName=learn\_kylin&timeFilter=1

Response Sample

[

{

"uuid": "9eb7bccf-4448-4578-9c29-552658b5a2ca",

"last\_modified": 1490957579843,

"version": "2.0.0",

"name": "Sample\_Cube - 19700101000000\_20150101000000 - BUILD - GMT+08:00 2017-03-31 18:36:08",

"type": "BUILD",

"duration": 936,

"related\_cube": "Sample\_Cube",

"related\_segment": "53a5d7f7-7e06-4ea1-b3ee-b7f30343c723",

"exec\_start\_time": 1490956581743,

"exec\_end\_time": 1490957518131,

"mr\_waiting": 0,

"steps": [

{

"interruptCmd": null,

"id": "9eb7bccf-4448-4578-9c29-552658b5a2ca-00",

"name": "Create Intermediate Flat Hive Table",

"sequence\_id": 0,

"exec\_cmd": null,

"interrupt\_cmd": null,

"exec\_start\_time": 1490957508721,

"exec\_end\_time": 1490957518102,

"exec\_wait\_time": 0,

"step\_status": "DISCARDED",

"cmd\_type": "SHELL\_CMD\_HADOOP",

"info": { "endTime": "1490957518102", "startTime": "1490957508721" },

"run\_async": false

},

{

"interruptCmd": null,

"id": "9eb7bccf-4448-4578-9c29-552658b5a2ca-01",

"name": "Redistribute Flat Hive Table",

"sequence\_id": 1,

"exec\_cmd": null,

"interrupt\_cmd": null,

"exec\_start\_time": 0,

"exec\_end\_time": 0,

"exec\_wait\_time": 0,

"step\_status": "DISCARDED",

"cmd\_type": "SHELL\_CMD\_HADOOP",

"info": {},

"run\_async": false

}

],

"submitter": "ADMIN",

"job\_status": "FINISHED",

"progress": 100.0

}

]

Get Hive Table

GET /kylin/api/tables/{project}/{tableName}

Path Parameters

* project - required string project name
* tableName - required string table name to find.

Response Sample

{

uuid: "69cc92c0-fc42-4bb9-893f-bd1141c91dbe",

name: "SAMPLE\_07",

columns: [{

id: "1",

name: "CODE",

datatype: "string"

}, {

id: "2",

name: "DESCRIPTION",

datatype: "string"

}, {

id: "3",

name: "TOTAL\_EMP",

datatype: "int"

}, {

id: "4",

name: "SALARY",

datatype: "int"

}],

database: "DEFAULT",

last\_modified: 1419330476755

}

Get Hive Tables

GET /kylin/api/tables

Request Parameters

* project- required string will list all tables in the project.
* ext- optional boolean set true to get extend info of table.

Response Sample

[

{

uuid: "53856c96-fe4d-459e-a9dc-c339b1bc3310",

name: "SAMPLE\_08",

columns: [{

id: "1",

name: "CODE",

datatype: "string"

}, {

id: "2",

name: "DESCRIPTION",

datatype: "string"

}, {

id: "3",

name: "TOTAL\_EMP",

datatype: "int"

}, {

id: "4",

name: "SALARY",

datatype: "int"

}],

database: "DEFAULT",

cardinality: {},

last\_modified: 0,

exd: {

minFileSize: "46069",

totalNumberFiles: "1",

location: "hdfs://sandbox.hortonworks.com:8020/apps/hive/warehouse/sample\_08",

lastAccessTime: "1398176495945",

lastUpdateTime: "1398176495981",

columns: "struct columns { string code, string description, i32 total\_emp, i32 salary}",

partitionColumns: "",

EXD\_STATUS: "true",

maxFileSize: "46069",

inputformat: "org.apache.hadoop.mapred.TextInputFormat",

partitioned: "false",

tableName: "sample\_08",

owner: "hue",

totalFileSize: "46069",

outputformat: "org.apache.hadoop.hive.ql.io.HiveIgnoreKeyTextOutputFormat"

}

}

]

Load Hive Tables

POST /kylin/api/tables/{tables}/{project}

Request Parameters

* tables - required string table names you want to load from hive, separated with comma.
* project - required String the project which the tables will be loaded into.

Request Body

* calculate - optional boolean

Response Sample

{

"result.loaded": ["DEFAULT.SAMPLE\_07"],

"result.unloaded": ["sapmle\_08"]

}

Wipe cache

PUT /kylin/api/cache/{type}/{name}/{action}

Path variable

* type - required string ‘METADATA’ or ‘CUBE’
* name - required string Cache key, e.g the cube name.
* action - required string ‘create’, ‘update’ or ‘drop’

Initiate cube start position

Set the stream cube’s start position to the current latest offsets; This can avoid building from the earlist position of Kafka topic (if you have set a long retension time);

PUT /kylin/api/cubes/{cubeName}/init\_start\_offsets

Path variable

* cubeName - required string Cube name

Response Sample

{

"result": "success",

"offsets": "{0=246059529, 1=253547684, 2=253023895, 3=172996803, 4=165503476, 5=173513896, 6=19200473, 7=26691891, 8=26699895, 9=26694021, 10=19204164, 11=26694597}"

}

Build stream cube

PUT /kylin/api/cubes/{cubeName}/build2

This API is specific for stream cube’s building;

Path variable

* cubeName - required string Cube name

Request Body

* sourceOffsetStart - required long The start offset, 0 represents from previous position;
* sourceOffsetEnd - required long The end offset, 9223372036854775807 represents to the end position of current stream data
* buildType - required Build type, “BUILD”, “MERGE” or “REFRESH”

Request Sample

{

"sourceOffsetStart": 0,

"sourceOffsetEnd": 9223372036854775807,

"buildType": "BUILD"

}

Response Sample

{

"uuid": "3afd6e75-f921-41e1-8c68-cb60bc72a601",

"last\_modified": 1480402541240,

"version": "1.6.0",

"name": "embedded\_cube\_clone - 1409830324\_1409849348 - BUILD - PST 2016-11-28 22:55:41",

"type": "BUILD",

"duration": 0,

"related\_cube": "embedded\_cube\_clone",

"related\_segment": "42ebcdea-cbe9-4905-84db-31cb25f11515",

"exec\_start\_time": 0,

"exec\_end\_time": 0,

"mr\_waiting": 0,

...

}

Check segment holes

GET /kylin/api/cubes/{cubeName}/holes

Path variable

* cubeName - required string Cube name

Fill segment holes

PUT /kylin/api/cubes/{cubeName}/holes

Path variable

* cubeName - required string Cube name

Use RESTful API in Javascript

Keypoints of call Kylin RESTful API in web page are:

1. Add basic access authorization info in http headers.
2. Use proper request type and data synax.

Kylin security is based on basic access authorization, if you want to use API in your javascript, you need to add authorization info in http headers; for example:

$.ajaxSetup({

headers: { 'Authorization': "Basic eWFu\*\*\*\*\*\*\*\*\*\*X\*\*\*ZA==", 'Content-Type': 'application/json;charset=utf-8' } // use your own authorization code here

});

var request = $.ajax({

url: "http://hostname/kylin/api/query",

type: "POST",

data: '{"sql":"select count(\*) from SUMMARY;","offset":0,"limit":50000,"acceptPartial":true,"project":"test"}',

dataType: "json"

});

request.done(function( msg ) {

alert(msg);

});

request.fail(function( jqXHR, textStatus ) {

alert( "Request failed: " + textStatus );

});

To generate your authorization code, download and import “jquery.base64.js” from <https://github.com/yckart/jquery.base64.js>).

var authorizationCode = $.base64('encode', 'NT\_USERNAME' + ":" + 'NT\_PASSWORD');

$.ajaxSetup({

headers: {

'Authorization': "Basic " + authorizationCode,

'Content-Type': 'application/json;charset=utf-8'

}

});