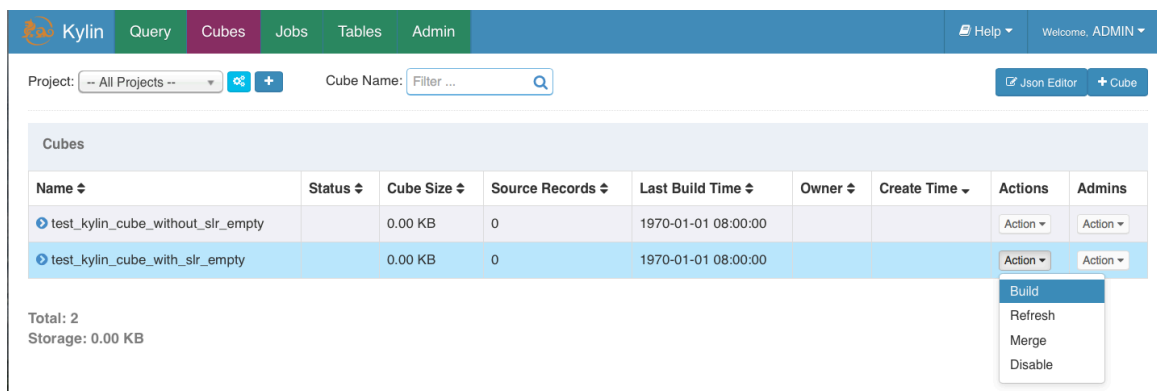


Kylin Cube Build and Job Monitoring Tutorial

Cube Build

First of all, make sure that you have authority of the cube you want to build.

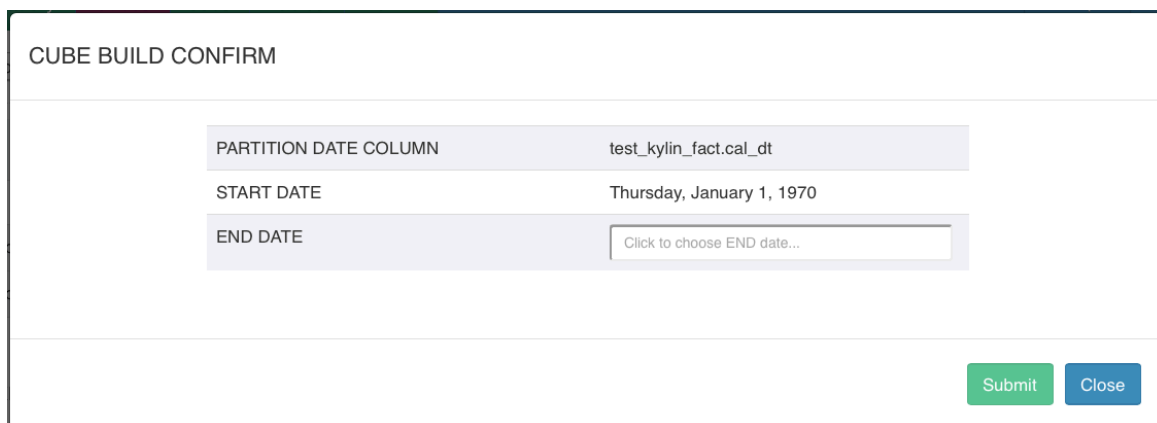
1. In **Cubes** page, click the **Action** drop down button in the right of a cube column and select operation **Build**.



The screenshot shows the Kylin web interface. The top navigation bar includes 'Kylin', 'Query', 'Cubes', 'Jobs', 'Tables', and 'Admin'. The 'Cubes' tab is active. Below the navigation bar, there's a 'Project' dropdown set to 'All Projects' and a 'Cube Name' search bar. A table titled 'Cubes' lists two cubes: 'test_kylin_cube_without_slr_empty' and 'test_kylin_cube_with_slr_empty'. The 'test_kylin_cube_with_slr_empty' row is highlighted in blue. An 'Action' dropdown menu is open for this row, showing options: 'Build', 'Refresh', 'Merge', and 'Disable'. The 'Build' option is selected. Below the table, it says 'Total: 2' and 'Storage: 0.00 KB'.

Name	Status	Cube Size	Source Records	Last Build Time	Owner	Create Time	Actions	Admins
test_kylin_cube_without_slr_empty		0.00 KB	0	1970-01-01 08:00:00			Action	Action
test_kylin_cube_with_slr_empty		0.00 KB	0	1970-01-01 08:00:00			Action	Action

2. There is a pop-up window after the selection.



The screenshot shows a 'CUBE BUILD CONFIRM' pop-up window. It contains three input fields: 'PARTITION DATE COLUMN' with the value 'test_kylin_fact.cal_dt', 'START DATE' with the value 'Thursday, January 1, 1970', and 'END DATE' with a placeholder 'Click to choose END date...'. At the bottom right, there are two buttons: 'Submit' and 'Close'.

PARTITION DATE COLUMN	test_kylin_fact.cal_dt
START DATE	Thursday, January 1, 1970
END DATE	Click to choose END date...

3. Click **END DATE** input box to choose end date of this incremental cube build.

CUBE BUILD CONFIRM

PARTITION DATE COLUMN

test_kylin_fact.cal_dt

START DATE

Thursday, January 1, 1970

END DATE

Click to choose END date...

<

January 1971

>

#	Sun	Mon	Tue	Wed	Thu	Fri	Sat
52	27	28	29	30	31	01	02
53	03	04	05	06	07	08	09
1	10	11	12	13	14	15	16
2	17	18	19	20	21	22	23
3	24	25	26	27	28	29	30
4	31	01	02	03	04	05	06

Today

Weeks

Clear

Done

Submit

Close

4. Click **Submit** to send request.

CUBE BUILD CONFIRM

PARTITION DATE COLUMN

test_kylin_fact.cal_dt

START DATE

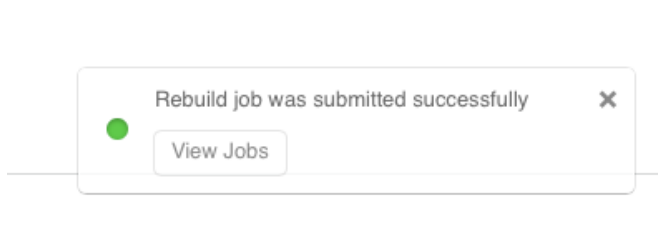
Thursday, January 1, 1970

END DATE

1971-01-01

Submit

Close



After submit the request successfully, you will see the job just be created in the **Jobs** page.

Duration	Actions	
0.00 mins	Action ▾	
24.07 mins	Action ▾	



Detail Information

Job Name	test_kylin_cube_without_slr_empty - FULL_BUILD - BUILD - PST 2014-11-05 01:28:57
Job ID	d8a3a78a-0b31-4a77-b984-a94a785eb2a2
Status	RUNNING
Duration	24.07 mins
MapReduce Waiting	4.83 mins

SequenceID: 0
 Status: FINISHED
 Duration: 5.44 mins
 Waiting: 0 seconds
 Start At: 2014-11-05 17:29:08
 End At: 2014-11-05 17:34:34
 Data Size: 446.61 KB
 MR Job:
 job_1415168056392_0001

Start 2014-11-05 17:29:08



⌚ 17:29:08

#1 Step Name: Create Intermediate Flat Hive Table
 Data Size: 446.61 KB
 Duration: 5.44 mins



Click the icon button show in each step to see the details: Parameters, Log, MRJob, EagleMonitoring.

- Parameters

Start 2014-11-05 17:29:08



17:29:08

#1 Step Name: Create Intermediate Flat Hive Table

Data Size: 446.61 KB

Duration: 5.44 mins

Parameters



17:34:35

#2 Step Name: Extract Fact Table Distinct Columns

Data Size: 0.12 KB

Duration: 1.87 mins



Query Cubes Jobs Tables Admin Help

Parameters

```
hive -e "DROP TABLE IF EXISTS kylin_intermediate_test_kylin_cube_without_slr_desc_FULL_BUILD_d8a3a78a_0b31_4a77_b984_a94a785eb2a2;  
CREATE EXTERNAL TABLE IF NOT EXISTS kylin_intermediate_test_kylin_cube_without_slr_desc_FULL_BUILD_d8a3a78a_0b31_4a77_b984_a94a785eb2a2  
(  
  CAL_DT date  
  ,LEAF_CATEG_ID int  
  ,LSTG_SITE_ID int  
  ,META_CATEG_NAME string  
  ,CATEG_LVL2_NAME string  
  ,CATEG_LVL3_NAME string  
  ,LSTG_FORMAT_NAME string  
  ,SLR_SEGMENT_CD smallint  
  ,PRICE decimal(38,16)  
  ,SELLER_ID bigint  
)  
ROW FORMAT DELIMITED FIELDS TERMINATED BY '\177'  
STORED AS SEQUENCEFILE  
LOCATION '/tmp/kylin-d8a3a78a-0b31-4a77-b984-a94a785eb2a2/kylin_intermediate_test_kylin_cube_without_slr_desc_FULL_BUILD_d8a3a78a_0b31_4a77_b984_a94a785eb2a2'  
SET mapreduce.job.split.metainfo.maxsize=-1;  
SET mapred.compress.map.output=true;
```

Close

- Log

Start 2014-11-05 17:29:08



🕒 17:29:08

#1 Step Name: Create Intermediate Flat Hive Table

Data Size: 446.61 KB

Duration: 5.44 mins

Log



🕒 17:34:35

#2 Step Name: Extract Fact Table Distinct Columns

Data Size: 0.12 KB

Duration: 1.87 mins



Output

Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties

OK

Time taken: 7.782 seconds

OK

Time taken: 3.618 seconds

Query ID = root_20141105012929_23a1dace-ba6b-4afe-9aee-e7cdfba74c3

Total jobs = 1

14/11/05 01:31:13 WARN conf.Configuration: file:/tmp/root/hive_2014-11-05_01-29-54_208_5635300399289684344-1/-local-10008/jobconf.xml:an d

14/11/05 01:31:13 WARN conf.Configuration: file:/tmp/root/hive_2014-11-05_01-29-54_208_5635300399289684344-1/-local-10008/jobconf.xml:an d

Execution log at: /tmp/root/root_20141105012929_23a1dace-ba6b-4afe-9aee-e7cdfba74c3.log

2014-11-05 01:31:18 Starting to launch local task to process map join; maximum memory = 260177920

Close

- MRJob(MapReduce Job)

Start 2014-11-05 17:29:08



🕒 17:29:08

#1 Step Name: Create Intermediate Flat Hive Table

Data Size: 446.61 KB

Duration: 5.44 mins

MRJob




🕒 17:34:35

#2 Step Name: Extract Fact Table Distinct Columns

Data Size: 0.12 KB

Duration: 1.87 mins





MapReduce Job job_1415168056392_0001

127.0.0.1

MapReduce Job job_1415168056392_0001

Logged in as: dr.who

Application

Job

Overview

Counters

Configuration

Map_tasks

Reduce_tasks

Tools

Job Overview

Job Name: INSERT OVERWRITE TABL...E_DIM.SELLER_TYPE_CD(Stage-10)

User Name: root

Queue: default

State: SUCCEEDED

Uberized: false

Submitted: Wed Nov 05 01:31:34 PST 2014

Started: Wed Nov 05 01:32:19 PST 2014

Finished: Wed Nov 05 01:34:16 PST 2014

Elapsed: 1mins, 57sec

Diagnostics:

Average Map Time: 1mins, 51sec

ApplicationMaster		Start Time	Node	Logs
Attempt Number	1	Wed Nov 05 01:32:01 PST 2014	sandbox.hortonworks.com:8042	logs

Task Type	1	Total	1	Complete
Map	1	1	1	Complete
Reduce	0	0	0	0
Attempt Type	0	Failed	0	Killed
Maps	0	0	0	1
Reduces	0	0	0	0

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