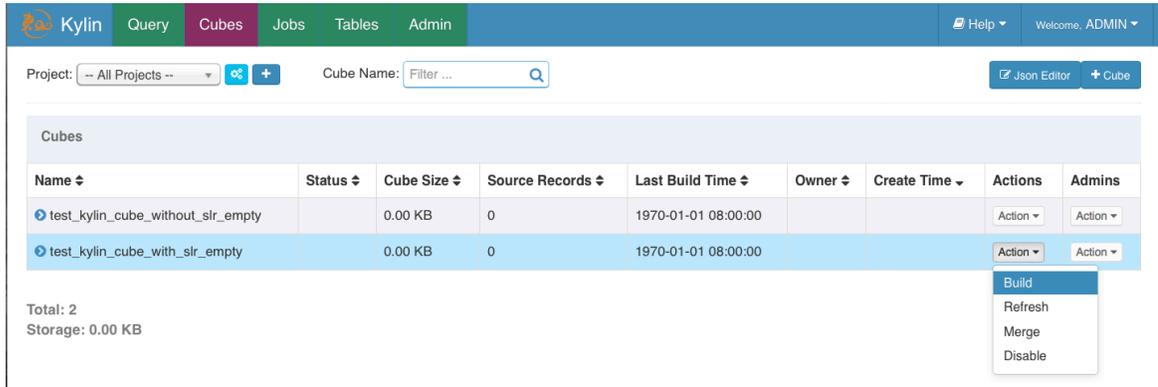


Kylin Cube Build and Job Monitoring Tutorial

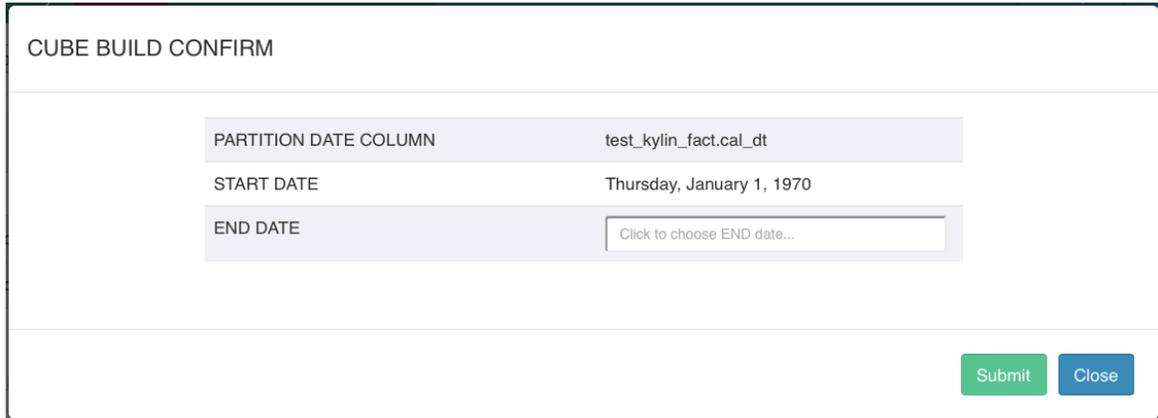
Cube Build

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**.



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



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:

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

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:

●

Rebuild job was submitted successfully ✕

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

Kylin Query Cubes **Jobs** Tables Admin Help Welcome, ADMIN

Project: -- All Projects -- Cube Name: Filter ... Job Status: new x pending x running x finished x error x discarded x

Job Name	Cube	Progress	Last Modified Time	Duration	Actions
test_kylin_cube_with_slr_empty - 19700101000000_19710101000000 - BUILD - PST 2014-11-05 03:01:20	test_kylin_cube_with_slr_empty	PENDING	2014-11-05 19:01:20	0.00 mins	Action
test_kylin_cube_without_slr_empty - FULL_BUILD - BUILD - PST 2014-11-05 01:28:57	test_kylin_cube_without_slr_empty	73.33%	2014-11-05 17:57:46	24.07 mins	Action

Total: 2

5. To discard this job, just click the **Discard** button.

Job Name	Cube	Progress	Last Modified Time	Duration	Actions
test_kylin_cube_with_slr_empty - 19700101000000_19710101000000 - BUILD - PST 2014-11-05 03:01:20	test_kylin_cube_with_slr_empty	PENDING	2014-11-05 19:01:20	0.00 mins	Action Discard
test_kylin_cube_without_slr_empty - FULL_BUILD - BUILD - PST 2014-11-05 01:28:57	test_kylin_cube_without_slr_empty	73.33%	2014-11-05 17:57:46	24.07 mins	Action

Job Monitoring

In the **Jobs** page, click the job detail button to see detail information show in the right side.

Kylin Query Cubes **Jobs** Tables Admin Help Welcome, ADMIN

Project: -- All Projects -- Cube Name: Filter ... Job Status: new x pending x running x finished x error x discarded x

Job Name	Cube	Progress	Last Modified Time	Duration	Actions
test_kylin_cube_with_slr_empty - 19700101000000_19710101000000 - BUILD - PST 2014-11-05 03:01:20	test_kylin_cube_with_slr_empty	PENDING	2014-11-05 19:01:20	0.00 mins	Action
test_kylin_cube_without_slr_empty - FULL_BUILD - BUILD - PST 2014-11-05 01:28:57	test_kylin_cube_without_slr_empty	73.33%	2014-11-05 17:57:46	24.07 mins	Action

Total: 2

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

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
- 17:34:35

Home Page | Google Group

The detail information of a job provides a step-by-step record to trace a job. You can hover a step status icon to see the basic status and information.

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



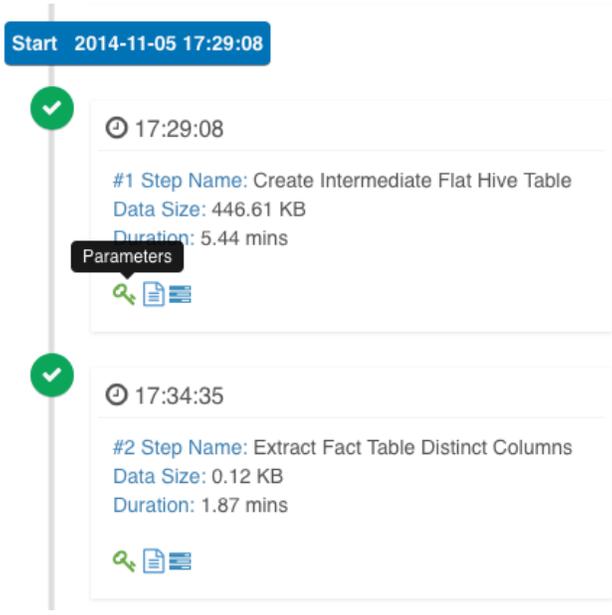
🕒 17:29:08

#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



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

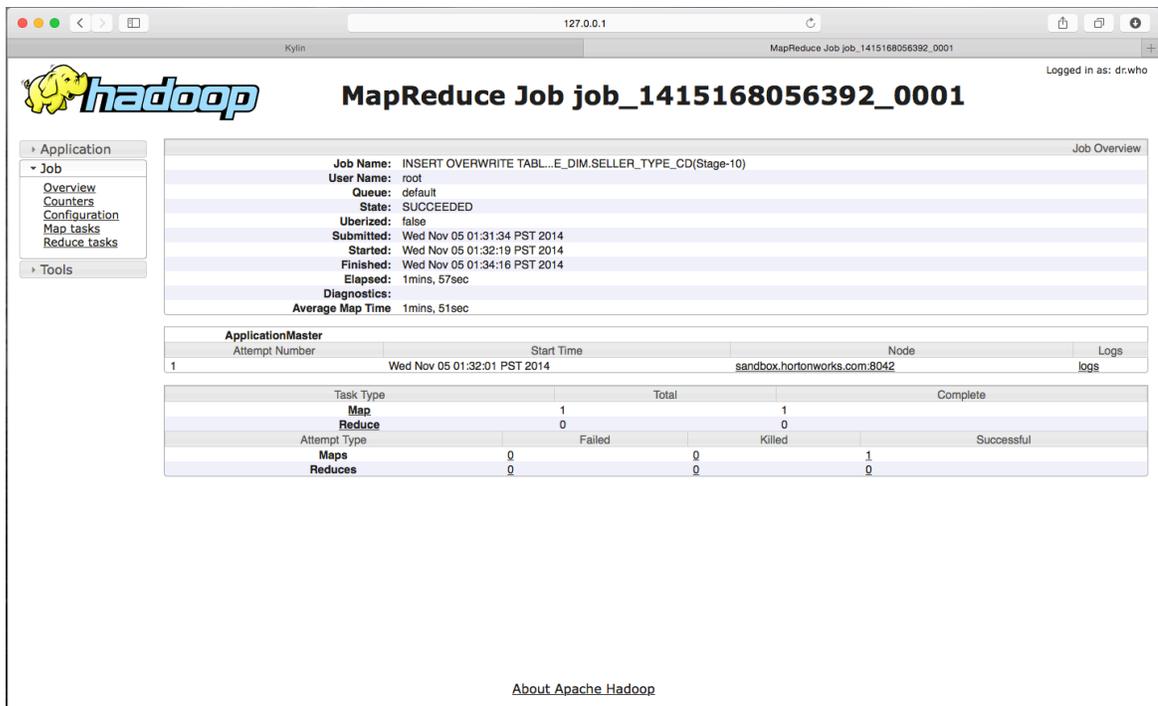
#1 Step Name: Create Intermediate Flat Hive Table
Data Size: 446.61 KB
Duration: 5.44 mins

MRJob



🕒 17:34:35

#2 Step Name: Extract Fact Table Distinct Columns
Data Size: 0.12 KB
Duration: 1.87 mins



The screenshot shows the Hadoop MapReduce Job Overview page for job `job_1415168056392_0001`. The page includes a navigation sidebar, a job overview section with key details, an application master table, and a task summary table.

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

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

Task Summary

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

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