

APACHE KYLIN – SALES BATCH CUBE

Bin Jiang

03/18/2017

root@san xroot@san xApache K xApache K xKylin xAmbari - xroot@san xNiFi Flow xUntitled xapaceh c x

localhost:7070/kylin/projects

Kylin

streaming_stocks

Insight

Model

Monitor











System

Help

Welcome, ADMIN

+Project

Projects

Name ^	Owner	Description	Create Time	Actions
streaming_stocks	ADMIN		2017-03-16 10:17:16 GMT+8	 
streaming_sales	ADMIN		2017-03-16 08:58:48 GMT+8	 
sales	ADMIN		2017-03-14 09:49:40 GMT+8	 
learn_kylin				 
DEMO	ADMIN		2017-03-12 00:51:51 GMT+8	 

Total: 5

Apache Kylin | Apache Kylin Community

KylinODBCDriver-1.....zip ^

Apache Kylin Diag....png ^

Apache Kylin Diag....xml ^










Show all x

Windows Taskbar

12:36 AM 2017-03-18

+Project

Projects

Name ^	Owner ↕	Description ↕	Create Time ↕	Actions
 streaming_stocks	ADMIN		2017-03-16 10:17:16 GMT+8	 
 streaming_sales	ADMIN		2017-03-16 08:58:48 GMT+8	 
 sales	ADMIN		2017-03-14 09:49:40 GMT+8	 

Cubes




Access

Cube Name

actions

sales_cube

Detail

 learn_kylin				 
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Models Data Source

+ New

Models

sales_model



Cubes

Search by name

Name	Status	Cube Size	Source Records	Last Build Time	Owner	Create Time	Actions	Admins	Streaming
sales_cube	READY	2.49 MB	164,558	2017-03-16 08:50:15 GMT+8	ADMIN	2017-03-14 12:10:16 GMT+8	Action	Action	false

Total: 1
Storage: 2.49 MB



Models

Data Source

Tables



KYLIN_SALES

CUSTOMER

INVENTORY

PRODUCT

SALES

PRODUCT_ID(integer)

TIME_ID(integer)

CUSTOMER_ID(integer)

PROMOTION_ID(integer)

STORE_ID(integer)

STORE_SALES(decimal(10,4))

STORE_COST(decimal(10,4))

UNIT_SALES(decimal(10,4))

Table Schema:SALES

Columns

Extend Information

Columns

Filter ...

ID ^	Name ⇅	Data Type ⇅	Cardinality ⇅	Comment ⇅
1	PRODUCT_ID	integer		
2	TIME_ID	integer		
3	CUSTOMER_ID	integer		
4	PROMOTION_ID	integer		
5	STORE_ID	integer		
6	STORE_SALES	decimal(10,4)		
7	STORE_COST	decimal(10,4)		

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localhost:7070/kylin/models

Kylin

sales

Insight

Model

Monitor

System

Help

Welcome, ADMIN

Models

Data Source

Tables

SALES

STORE

STORE_ID(integer)

STORE_TYPE(varchar(30))

REGION_ID(integer)

STORE_NAME(varchar(30))

STORE_NUMBER(integer)

STORE_STREET_ADDRESS(va(30))

STORE_CITY(varchar(30))

STORE_STATE(varchar(30))

STORE_POSTAL_CODE(varchar(30))

STORE_COUNTRY(varchar(30))

Table Schema:STORE

Columns

Extend Information

Columns

Filter ...

ID ^	Name	Data Type	Cardinality	Comment
1	STORE_ID	integer		
2	STORE_TYPE	varchar(30)		
3	REGION_ID	integer		
4	STORE_NAME	varchar(30)		
5	STORE_NUMBER	integer		
6	STORE_STREET_ADDRESS	varchar(30)		
7	STORE_CITY	varchar(30)		

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KylinODBCDriver-1.....zip

Apache Kylin Diag....png

Apache Kylin Diag....xml

Show all

Ask me anything

12:39 AM 2017-03-18



Models Data Source

Tables



CUSTOMER

INVENTORY

PRODUCT

PRODUCT_CLASS_ID(integer)

PRODUCT_ID(integer)

BRAND_NAME(varchar(60))

PRODUCT_NAME(varchar(60))

SKU(bigint)

SRP(decimal(10,4))

GROSS_WEIGHT(double)

NET_WEIGHT(double)

RECYCLABLE_PACKAGE(boole

LOW_FAT(boole

Table Schema:PRODUCT

Columns

Extend Information

Columns

Filter ...

ID ^	Name ^	Data Type ^	Cardinality ^	Comment ^
1	PRODUCT_CLASS_ID	integer		
2	PRODUCT_ID	integer		
3	BRAND_NAME	varchar(60)		
4	PRODUCT_NAME	varchar(60)		
5	SKU	bigint		
6	SRP	decimal(10,4)		
7	GROSS_WEIGHT	double		



Models Data Source

Tables



KYLIN_SALES

CUSTOMER

- CUSTOMER_ID(integer)
- ACCOUNT_NUM(bigint)
- LNAME(varchar(30))
- FNAME(varchar(30))
- MI(varchar(30))
- ADDRESS1(varchar(30))
- ADDRESS2(varchar(30))
- ADDRESS3(varchar(30))
- ADDRESS4(varchar(30))
- CITY(varchar(30))
- STATE_PROVINCE(varchar(20))

Table Schema: CUSTOMER

Columns Extend Information

Columns

Filter ...

ID ^	Name ^	Data Type ^	Cardinality ^	Comment ^
1	CUSTOMER_ID	integer		
2	ACCOUNT_NUM	bigint		
3	LNAME	varchar(30)		
4	FNAME	varchar(30)		
5	MI	varchar(30)		
6	ADDRESS1	varchar(30)		
7	ADDRESS2	varchar(30)		

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KylinODBCDriver-1.....zip Apache Kylin Diag....png Apache Kylin Diag....xml

Show all X

Tables

KYLIN_SALES

Model Designer



Model Name ⓘ *

sales_model

Description

Next →

Tables

KYLIN_SALES

Model Designer



Fact Table *

KYLIN_SALES.SALES

+ Add Lookup Table

Filter ...

ID	Table Name	Join Type	Join Condition	Actions
1	KYLIN_SALES.STORE	inner	KYLIN_SALES.SALES.STORE_ID = KYLIN_SALES.STORE.STORE_ID	
2	KYLIN_SALES.PRODUCT	inner	KYLIN_SALES.SALES.PRODUCT_ID = KYLIN_SALES.PRODUCT.PRODUCT_ID	

Prev Next

Tables

KYLIN_SALES

Model Designer



Select dimension columns

ID	Table Name	Columns
1	KYLIN_SALES.SALES	STORE_ID x PRODUCT_ID x CUSTOMER_ID x
2	KYLIN_SALES.STORE	STORE_CITY x
3	KYLIN_SALES.PRODUCT	BRAND_NAME x

Prev Next

Tables



KYLIN_SALES

Model Designer



Model Info



Data Model



Dimensions



Measures



Settings

Select measure columns

STORE_SALES x

← Prev

Next →

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KylinODBCDriver-1.....zip ^ Apache Kylin Diag.....png ^ Apache Kylin Diag.....xml ^

Show all x

root@san X root@san X Apache K X Apache K X Kylin X Ambari - X root@san X NiFi Flow X Untitled X apache c X

localhost:7070/kylin/cubes/edit/sales_cube

Kylin sales Insight Model Monitor System Help Welcome, ADMIN

Models

sales_model

1

2

3

4

5

6

7

Cube Info

Dimensions

Measures

Refresh Setting

Advanced Setting

Configuration Overwrites

Overview

Model Name *

sales_model

Cube Name *

sales_cube

Notification Email List

Comma Separated

Notification Events

ERROR X DISCARDED X SUCCEED X

Description

Next

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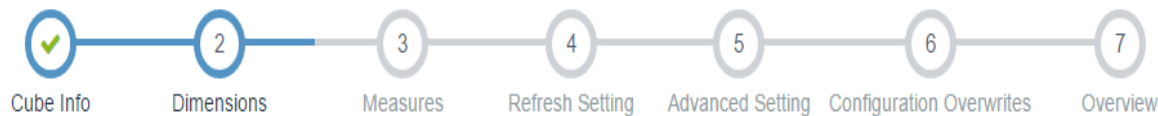
KylinODBCDriver-1.....zip Apache Kylin Diag....png Apache Kylin Diag....xml Show all X

Ask me anything

12:44 AM 2017-03-18

Models

sales_model











+ Add Dimension

Auto Generator

Filter ...

ID	Name	Table Name	Type		Actions
1	STORE_ID	KYLIN_SALES.SALES	normal	Column	STORE_ID
2	STORE_CITY	KYLIN_SALES.STORE	derived	Derived	["STORE_CITY"]
3	PRODUCT_ID	KYLIN_SALES.SALES	normal	Column	PRODUCT_ID
4	BRAND_NAME	KYLIN_SALES.PRODUCT	derived	Derived	["BRAND_NAME"]

Prev Next

Name	Expression	Parameters	Return Type	Actions
COUNT	COUNT	Value:1, Type:constant	bigint	 
TOTAL_STORE_SALES	SUM	Value:STORE_SALES, Type:column	decimal(10,4)	 
MAX_STORE_SALES	MAX	Value:STORE_SALES, Type:column	decimal(10,4)	 
TOP10CUSTOMERSALES	TOP_N	SUM ORDER BY:STORE_SALES Group By:CUSTOMER_ID	topn(10)	 

+ Measure

Prev Next

Aggregation Groups

Visit [aggregation group](#) for more about aggregation group.

ID Aggregation Groups

1	Includes	STORE_ID x PRODUCT_ID x	-
	Mandatory Dimensions	Select Column...	
	Hierarchy Dimensions	New Hierarchy+	
	Joint Dimensions	New Joint+	

New Aggregation Group+

Rowkeys

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New Aggregation Group+

Rowkeys ⓘ

ID	Column	Encoding	Length	Shard By	
1	STORE_ID	dict	0	false	-
2	PRODUCT_ID	dict	0	false	-

New Rowkey Column+

Advanced Dictionaries ⓘ

Column	Builder Class	Reuse	Actions
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+ New

Models

sales_model

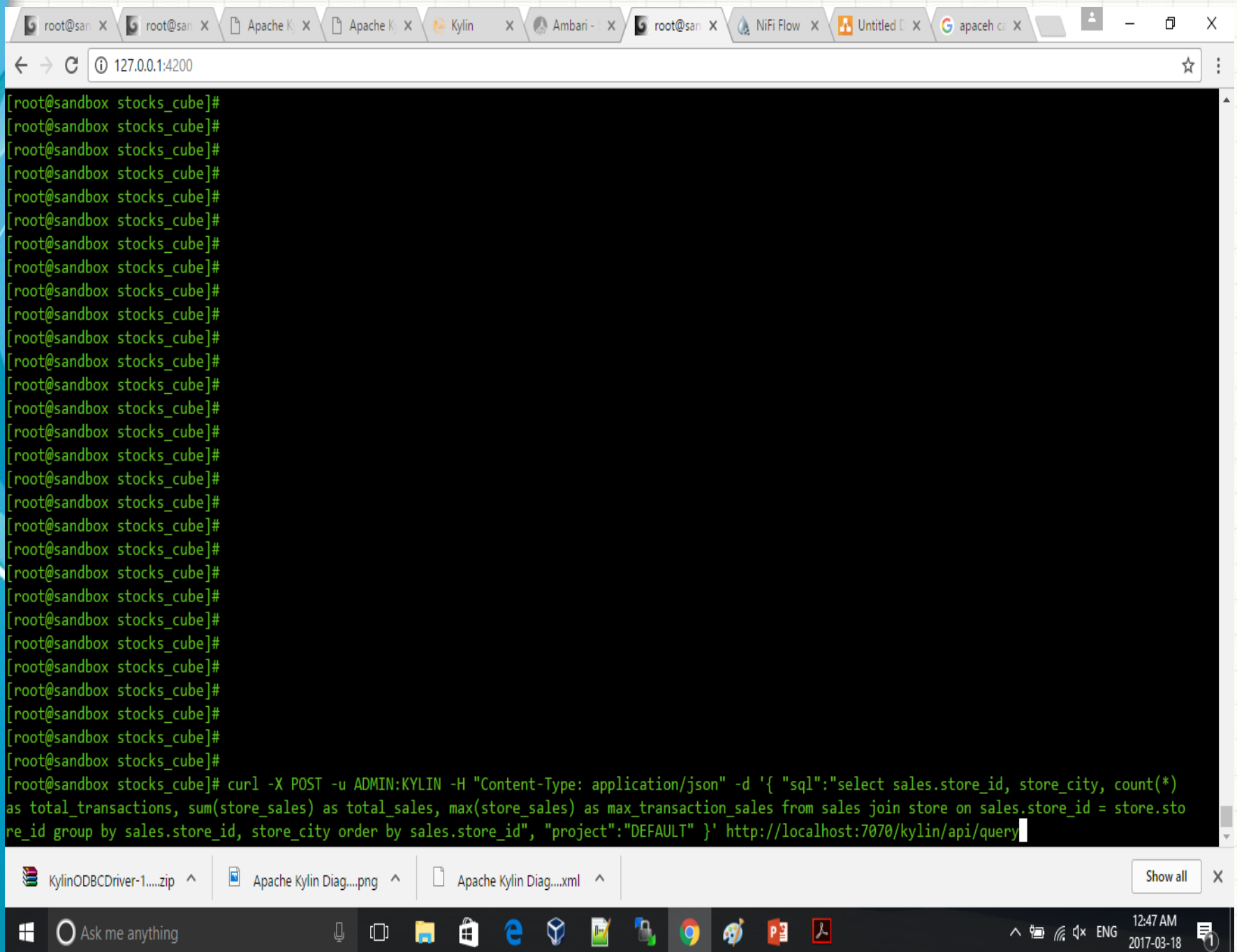
Cube Designer



Model Name	sales_model
Cube Name	sales_cube
Fact Table	KYLIN_SALES.SALES
Lookup Table	2
Dimensions	4
Measures	4

Description

Prev Save



No Result.

New Query Saved Queries Query History

```
1 select brand_name, store_city, count(*) as total_transactions, sum(store_sales) as total_sales, max(store_sales) as max_transaction_sales
2 from sales join product on sales.product_id = product.product_id join store on sales.store_id = store.store_id
3 group by brand_name, store_city
4 order by brand_name, store_city
```

Tips: Ctrl+Shift+Space or Alt+Space(Windows), Command+Option+Space(Mac) to list tables/columns in query box.

Project: sales

LIMIT 50000

Submit

Results

No Query Result.

Results

1 ✓ x |

Status: All

Query String

Start Time: 2017-03-18 13:33:37 GMT+8 Duration: 2.68s Rerun Save

Status: Success

Project: sales

Cubes: sales_cube

Results (2516)

Visualization Export

	BRAND_NAME	STORE_CITY	TOTAL_TRAN...	TOTAL_SALES	MAX_TRANSA...
	ADJ	Acapulco	7	60.72	11.04
	ADJ	Bellingham	1	5.52	5.52
	ADJ	Beverly Hills	8	74.52	11.04
	ADJ	Bremerton	6	55.20	11.04
	ADJ	Camacho	6	52.44	11.04
	ADJ	Guadalajara	1	2.76	2.76
	ADJ	Hidalgo	10	80.04	11.04
	ADJ	Los Angeles	8	69.00	11.04