

# Project Kylin

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# Project Description

Create a Visual of Total Price with  
Buyer Country

# Steps 1

## Set Up Docker Desktop and Kylin

### Set Up Image in Docker Desktop

```
docker pull apachekylin/apache-kylin-standalone:3.0.1
```

### Build the Container for Kylin

```
docker run -d --name kylin --hostname kylin -m 8G -p 7070:7070 -p 8088:8088 -p  
50070:50070 -p 8032:8032 -p 8042:8042 -p 16010:16010 apachekylin/apache-kylin-  
standalone:3.0.1
```

# Steps 1

## Set Up Docker Desktop and Kylin

To prevent the Kylin from exiting early do these steps,

### **Step 1 : Create a file named .wslconfig in your user directory**

Ex:- C://users/[your user name]/.wslconfig

### **Step 2 : Add following line to the .wslconfig file**

[wsl2]

kernelCommandLine = vsyscall=emulate

### **Step 3 : Restart Your PC**

# Steps 2

## Create New Project

Add new project name

New Project

Project Name  
You can use letters, numbers, and underscore characters '\_'

Project Description  
Project Description...

Project Config  
+ Property

**Close** **Submit**



Kylin

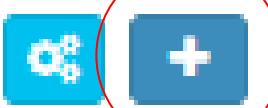
F1F

Insight

Model

Monitor

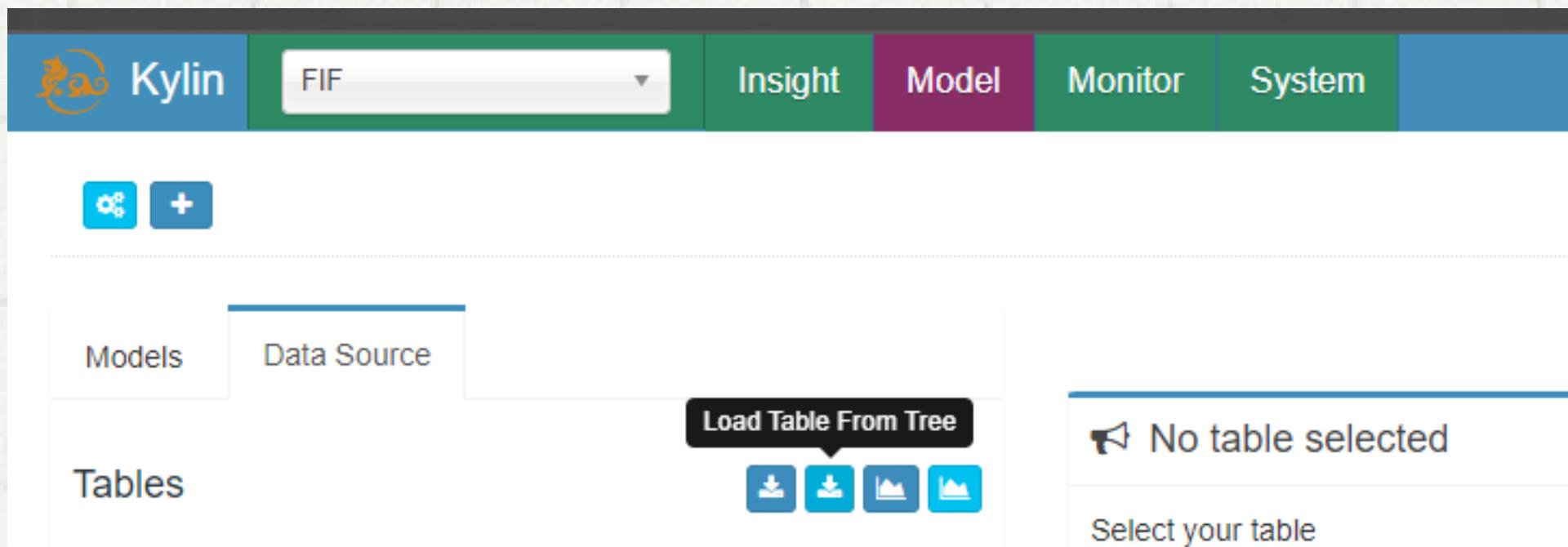
System



# Steps 3

## Load Hive Table

Click Model -> the Data Source -> the Load the From the Table Tree. Kylin reads the Hive data source table and displays it in a tree. You can choose the tables you would like to add to models and then click Sync. The selected tables will then be loaded into Kylin.



# Steps 4

## Create The Model

Click Model → New → New Model

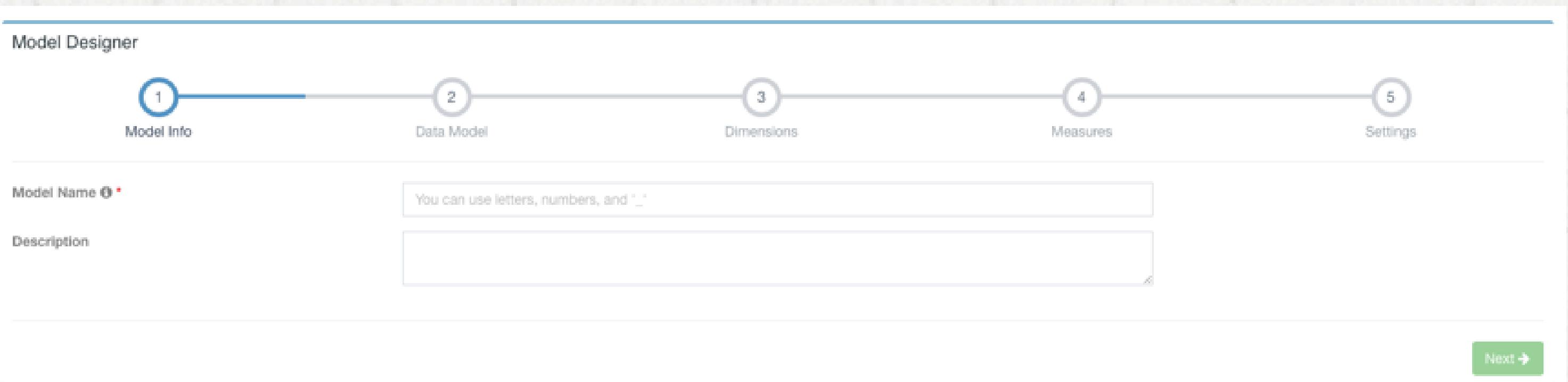
Model Designer

1 Model Info      2 Data Model      3 Dimensions      4 Measures      5 Settings

Model Name \*:

Description:

Next ➔



# Steps 4

## Create The Model

Set the fact table and looked up table

Model Designer

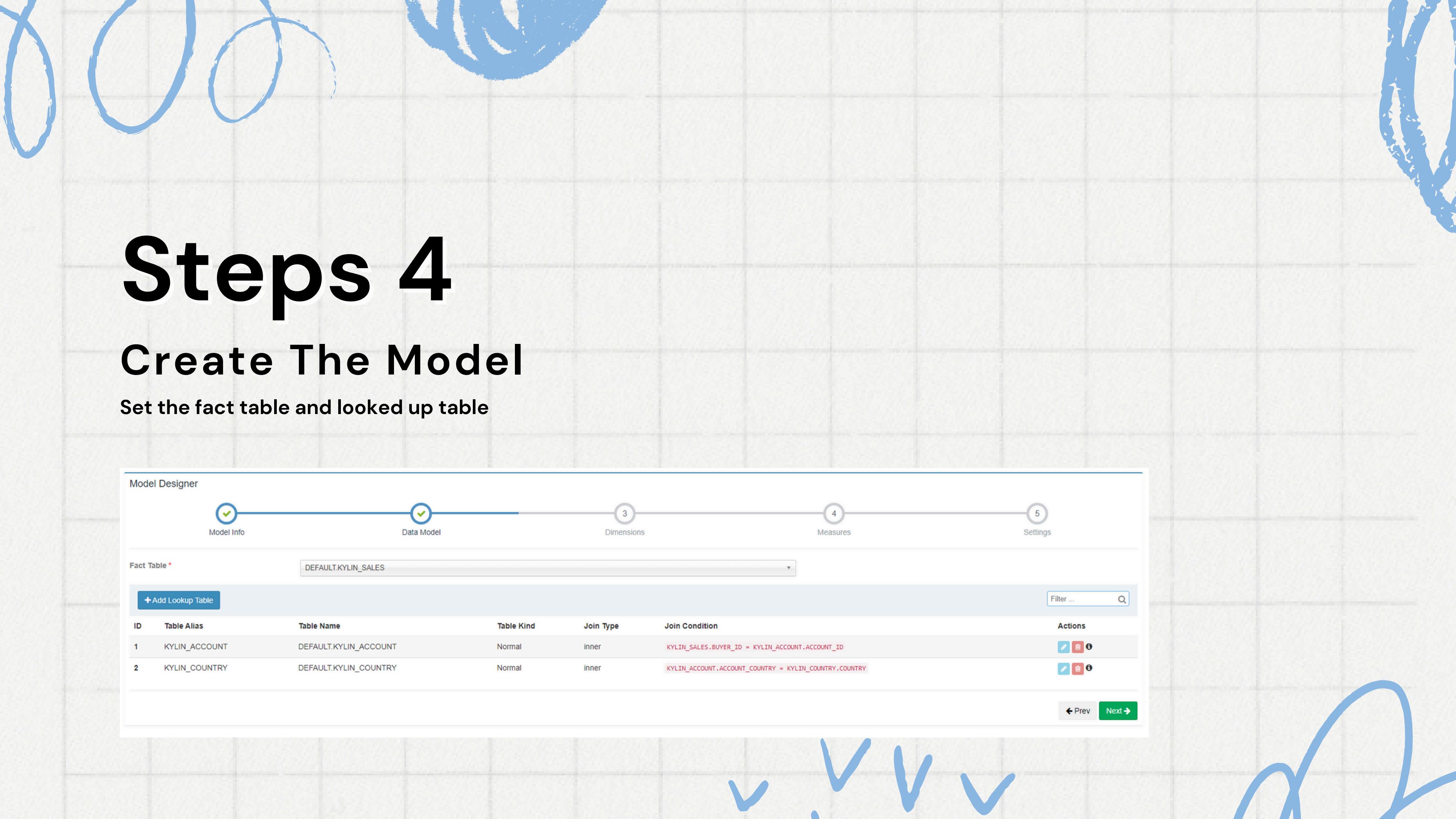
Model Info ✓ Data Model ✓ Dimensions 3 Measures 4 Settings 5

Fact Table \* DEFAULT.KYLIN\_SALES

+ Add Lookup Table Filter ...

ID	Table Alias	Table Name	Table Kind	Join Type	Join Condition	Actions
1	KYLIN_ACCOUNT	DEFAULT.KYLIN_ACCOUNT	Normal	inner	KYLIN_SALES.BUYER_ID = KYLIN_ACCOUNT.ACOUNT_ID	
2	KYLIN_COUNTRY	DEFAULT.KYLIN_COUNTRY	Normal	inner	KYLIN_ACCOUNT.ACOUNT_COUNTRY = KYLIN_COUNTRY.COUNTRY	

← Prev Next →



# Steps 4

## Create The Model

Set the dimension

Model Info

Data Model

Dimensions

Measures

Settings

Select dimension columns

ID	Table Alias	Columns
1	KYLIN_SALES	BUYER_ID
2	KYLIN_ACCOUNT	ACCOUNT_ID ACCOUNT_COUNTRY
3	KYLIN_COUNTRY	COUNTRY

← Prev

Next →

# Steps 4

## Create The Model

Set the measures

Select measure columns

ID	Table Alias	Columns
1	KYLIN_SALES	PRICE <input type="text"/>

5

Model Info Data Model Dimensions Measures Settings

← Prev Next →

# Steps 4

## Create The Model

Set the settings and the partition table to the same table as the fact. Then add filter condition

Model Designer

Model Info      Data Model      Dimensions      Measures      Settings

Partition

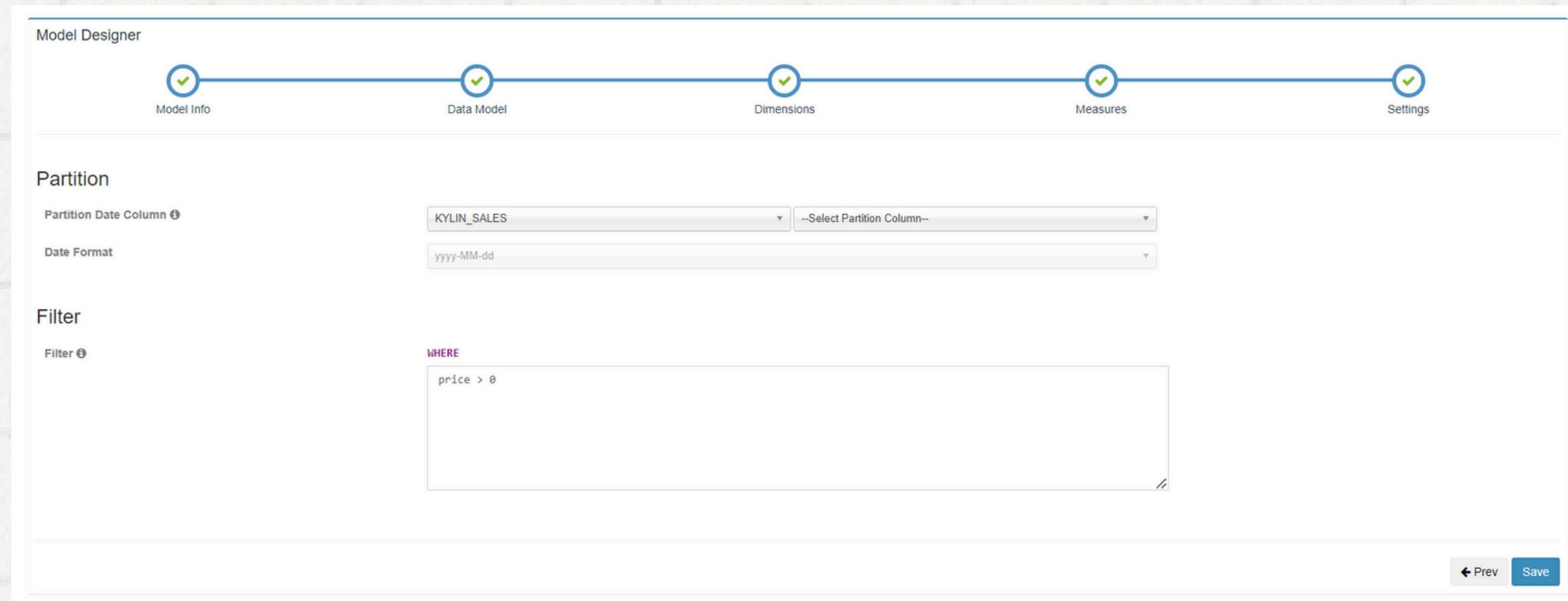
Partition Date Column: KYLIN\_SALES      Select Partition Column:

Date Format: yyyy-MM-dd

Filter

Filter WHERE: price > 0

Prev Save



# Steps 5

## Create Cube – add cube name

Click Next to add Dimension. The dimensions of the Lookup Table can be set to Normal or Derived. The default setting is derived dimension. Derived dimension means that the column can be derived from the primary key of the dimension table. In fact, only the primary key column will be calculated by the cube.

Cube Designer

1      2      3      4      5      6      7

Cube Info      Dimensions      Measures      Refresh Setting      Advanced Setting      Configuration Overwrites      Overview

**Model Name \***

**Cube Name \***

**Notification Email List**

**Notification Events**

**Description**

**Next →**

# Steps 5

## Add cube dimension

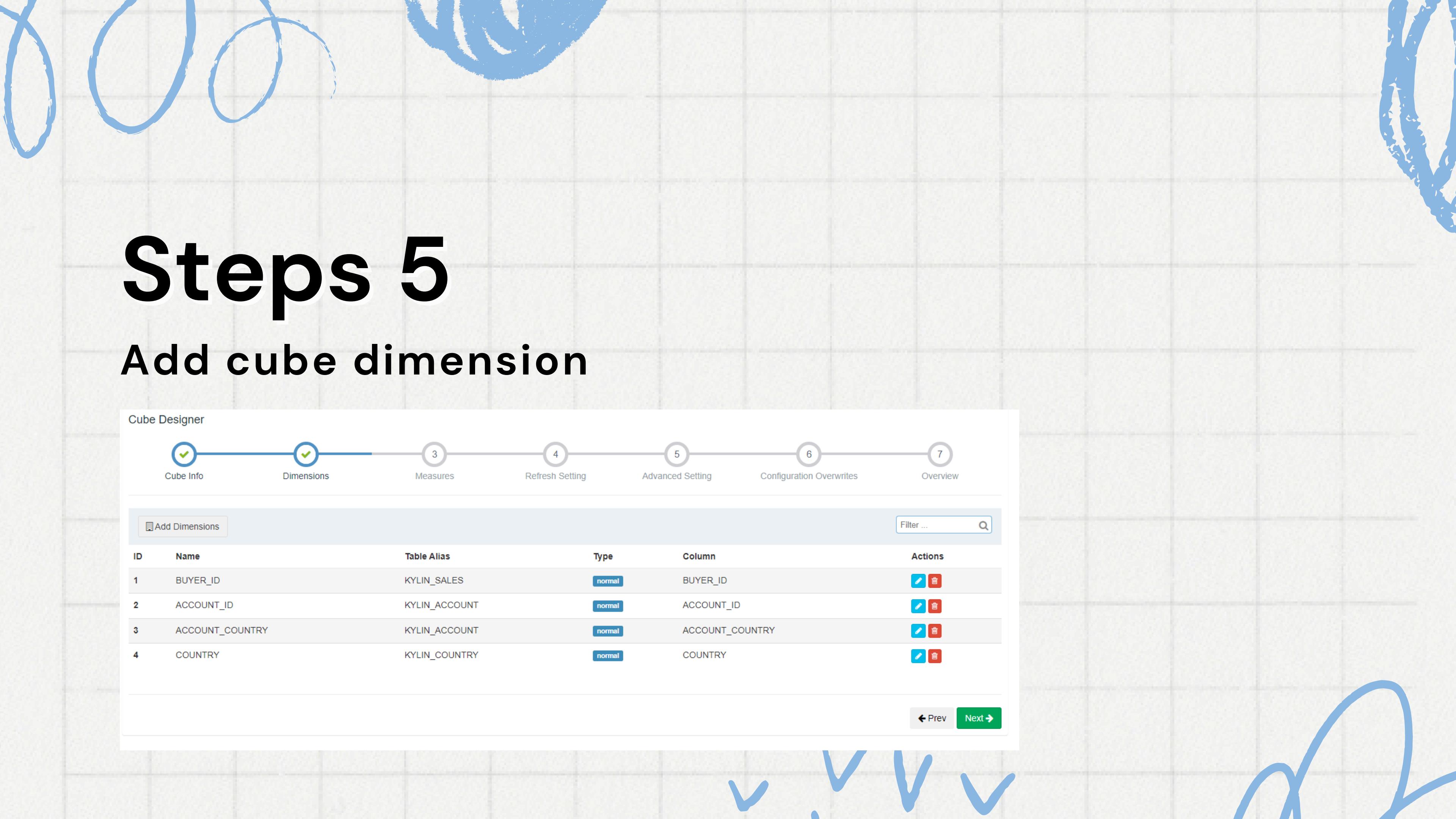
Cube Designer

1 Cube Info    2 Dimensions    3 Measures    4 Refresh Setting    5 Advanced Setting    6 Configuration Overwrites    7 Overview

Add Dimensions    Filter ...

ID	Name	Table Alias	Type	Column	Actions
1	BUYER_ID	KYLIN_SALES	normal	BUYER_ID	
2	ACCOUNT_ID	KYLIN_ACCOUNT	normal	ACCOUNT_ID	
3	ACCOUNT_COUNTRY	KYLIN_ACCOUNT	normal	ACCOUNT_COUNTRY	
4	COUNTRY	KYLIN_COUNTRY	normal	COUNTRY	

← Prev    Next →



# Steps 5

Add new measure and next all settings

Cube Designer

1 2 3 4 5 6 7

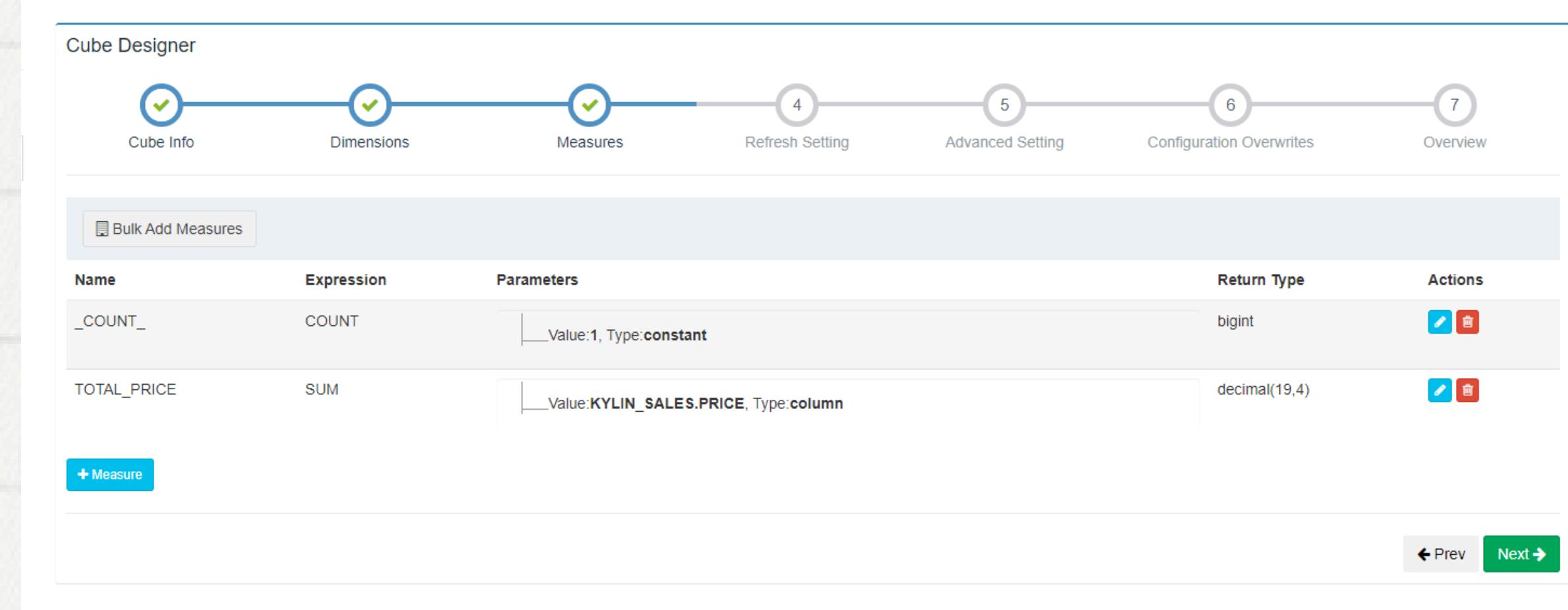
Cube Info Dimensions Measures Refresh Setting Advanced Setting Configuration Overwrites Overview

Bulk Add Measures

Name	Expression	Parameters	Return Type	Actions
_COUNT_	COUNT	Value:1, Type:constant	bigint	
TOTAL_PRICE	SUM	Value:KYLIN_SALES.PRICE, Type:column	decimal(19,4)	

+ Measure

← Prev Next →



# Steps 6

## Cube Construction

The screenshot shows a user interface for managing cubes. At the top, there's a search bar labeled "Search by name" with a magnifying glass icon. Below it is a table titled "Cubes" with columns: Name, Status, Project, Cube Size, Source Records, Last Build Time, Owner, Create Time, Actions, and Admins. A single row is selected for the cube named "fif\_cube", which has a status of "DISABLED", is part of the "FIF" project, has a size of "0 KB", and 0 source records. The "Actions" column contains a dropdown menu with options: Drop, Edit, Build, Refresh, Merge, Lookup Refresh, Enable, Delete Segment, Purge, and Clone. The "Build" option is highlighted with a red oval.

Name	Status	Project	Cube Size	Source Records	Last Build Time	Owner	Create Time	Actions	Admins
fif_cube	DISABLED	FIF	0 KB	0		ADMIN	2024-10-14 03:35:46 UTC	Action	Action

Total: 1  
Storage: 0 KB

# Steps 6

## Query Cube

The screenshot shows the Kylin Query interface. The top navigation bar includes tabs for Kylin, FIF, Insight, Model, Monitor, System, Help, and a user account. The main area has tabs for Tables, New Query, Saved Queries, and Query History. A table titled 'DEFAULT' is listed under 'Tables'. The 'New Query' tab contains a SQL query:

```
1 SELECT KYLIN_COUNTRY.COUNTRY, SUM(KYLIN_SALES.PRICE) AS TOTAL_PRICE  
2 FROM KYLIN_SALES  
3 JOIN KYLIN_ACCOUNT ON KYLIN_SALES.BUYER_ID = KYLIN_ACCOUNT.ACCOUNT_ID  
4 JOIN KYLIN_COUNTRY ON KYLIN_ACCOUNT.COUNTRY = KYLIN_COUNTRY.COUNTRY  
5 GROUP BY KYLIN_COUNTRY.COUNTRY  
6 ORDER BY TOTAL_PRICE DESC;
```

Below the query editor, a tip states: "Tips: Ctrl+Shift+Space or Alt+Space(Windows), Command+Option+Space(Mac) to list keywords in query box." At the bottom, there is a 'Project' dropdown set to 'FIF', a 'LIMIT' input field with the value '50000', and a 'Submit' button.

# Result

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

Project: **FIF**  LIMIT 50000 **Submit**

**Results**   Status: All

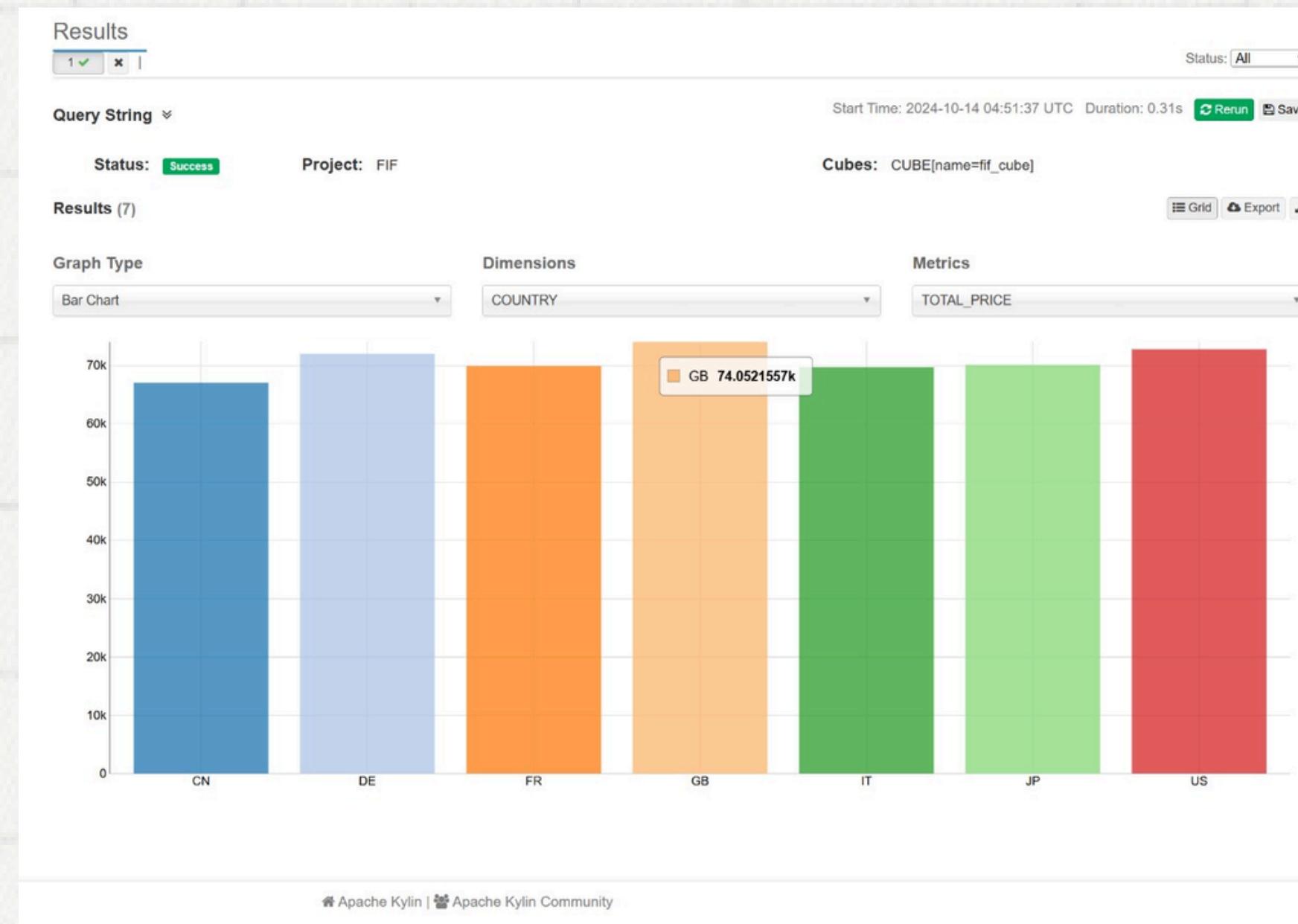
Query String **▼** Start Time: 2024-10-14 04:51:37 UTC Duration: 0.31s **Rerun** **Save**

Status: **Success** Project: FIF Cubes: CUBE[name=fif\_cube]

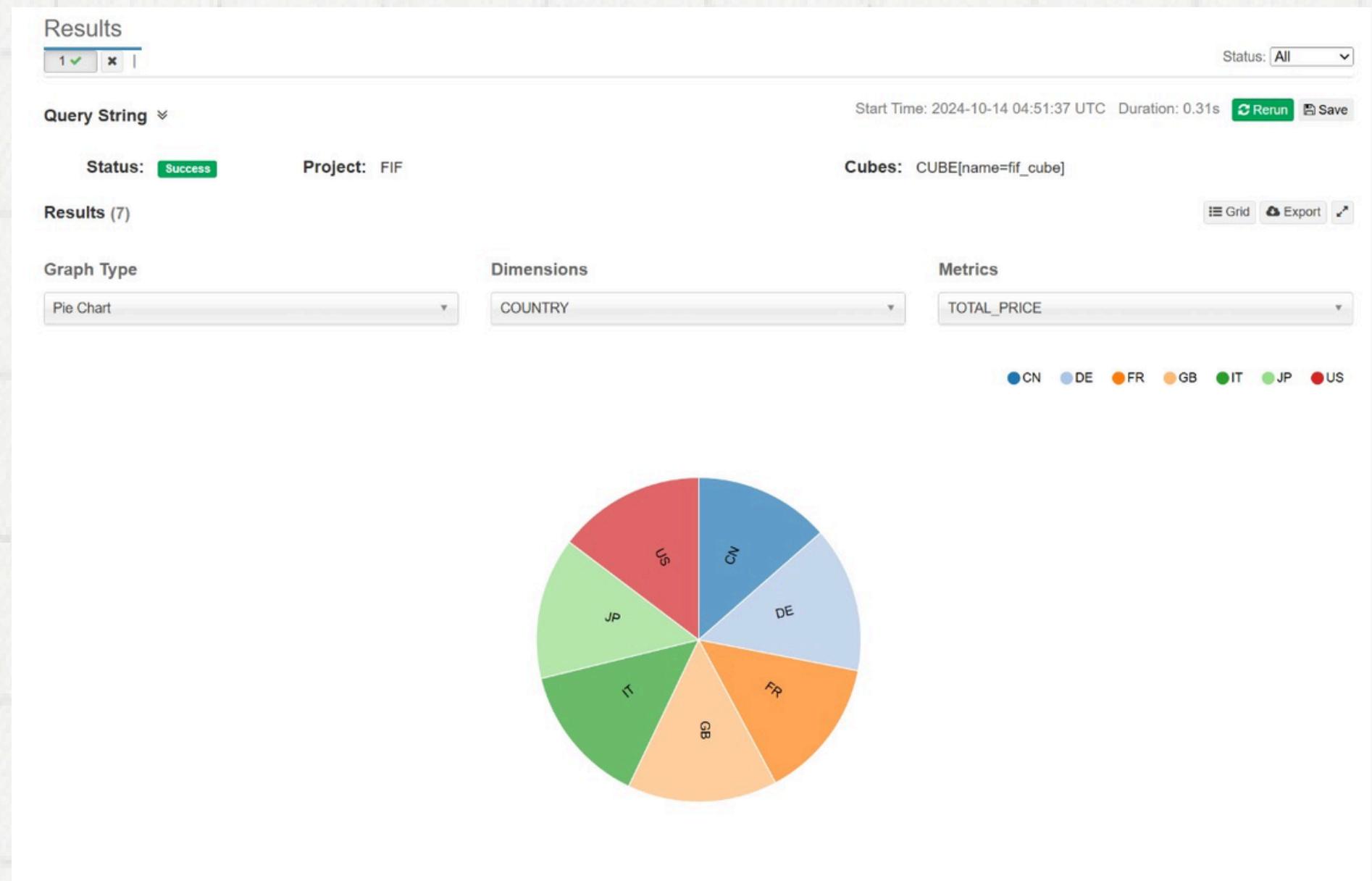
**Results (7)** **Visualization** **Export**

COUNTRY	TOTAL_PRICE...
GB	74052.1557
US	72807.8659
DE	72034.5262
JP	70119.6708
FR	69939.0301
IT	69723.7780
CN	67048.9349

# Result - Bar Chart



# Result - Pie Chart



**Thank you  
very much!**