number_of_new_users_per_month()

Data

Table	Columns
Users	'signupTime', 'userId'

Properties

dropped 'Nan' and 'None' values from 'signupTime' in Users

Actions

performing count() operation on 'userId', grouped by year and month in 'signupTime' sorting 'signupTime' by year and month

Axes

x: year and month of registration

y: number of registrations

number_of_conversions_per_month()

Data

Table	Columns
Conversions	'timestamp'

Properties

dropped 'Nan' and 'None' values from 'timestamp' in Conversions

Actions

performing count() operation on rows grouped by year and month sorting 'timestamp' by year and month

Axes

x: year and month of conversion

y: number of conversions

number_of_items_purchased_per_month()

Data

Table	Columns
Conversions	'timestamp', 'quantity'

Properties

dropped 'Nan' and 'None' values from 'timestamp' and 'quantity' in Conversions

Actions

performing sum() operation on 'quantity', grouped by year and month of conversion sorting 'timestamp' by year and month

Axes

x: year and month of conversion

y: number of purchased items

income_per_month()

Data

Table	Columns
Conversions	'timestamp', 'price'

Properties

dropped 'Nan' and 'None' values from 'timestamp' and 'price' in Conversions

Actions

performing sum() operation on 'price', grouped by year and month of conversion sorting 'timestamp' by year and month

Axes

x: year and month of conversion

y: income

number_of_items_purchased_per_user_in_the_first_week_after_sign_in()

Data

Table	Columns
Conversions	'timestamp', 'userId', 'quantity'
Users	'signupTime', 'userId'

Properties

dropped 'Nan' and 'None' values from 'timestamp', 'userId', 'quantity' in Conversions dropped 'Nan' and 'None' values from 'signupTime', 'userId' in Users

Actions

joining Conversions and Users on 'userId'

adding additional column to joined structure: 'week_after' - date week after signing in

filtering 'timestamp' - rows only with 'timestamp' <= 'week_after' preserved

performing sum() operation on 'quantity', grouped by 'userId'

Axes

x: user id

y: quantity of purchased products

number_of_items_purchased_from_particular_category_grouped_by_count ry(category)

Data

Table	Columns
Conversions	'itemId', 'userId', 'quantity'
Items	'itemId', 'category'
Users	'userId', 'registerCountry'

Properties

dropped 'Nan' and 'None' values from 'category' in Items

dropped 'Nan' and 'None' values from 'quantity' in Conversions

dropped 'Nan' and 'None' values from 'registerCountry' in Users	
Actions	
joining Items and Conversions on 'itemId' and futher with Users on 'userId'	
filtering joined data on 'category' property	
performing sum on 'quantity' in rows grouped by 'registerCountry'	
Axes	
x: country	
y: number of purchased items	

number_of_items_purchased_in_particular_country_grouped_by_category(
	Data	
Table	Columns	
Conversions	'itemId', 'userId', 'quantity'	
Items	'itemId', 'category'	
Users	'userId', 'registerCountry'	
Properties		
dropped 'Nan' and 'None' values from 'category' in Items		
dropped 'Nan' and 'None' values from 'quantity' in Conversions		
dropped 'Nan' and 'None' values from 'registerCountry' in Users		
A	ctions	
joining Items and Conversions on 'itemId' and futher with Users on 'userId'		
filtering joined data on 'country' property		
performing sum on 'quantity' in rows grouped by 'category'		
Axes		
x: category		

y: quantity

number_of_purchased_items_grouped_by_categories_in_all_countries()

Data

יט	ıta
	Columns
	'itemId', 'userId', 'quantity'

Conversions	'itemId', 'userId', 'quantity'
Items	'itemId', 'category'
Users	'userId', 'registerCountry'

Properties

dropped 'Nan' and 'None' values from 'category' in Items

Table

dropped 'Nan' and 'None' values from 'quantity' in Conversions

dropped 'Nan' and 'None' values from 'registerCountry' in Users

Actions

TODO

Axes

x: category

y: country

Data

Table	Columns
Conversions	'itemId', 'userId', 'quantity'
Users_Ads	'itemId', 'category'
Users	'userId', 'registerCountry'
Items	

Properties

dropped 'Nan' and 'None' values from 'timestamp' in Conversions

dropped 'Nan' and 'None' values from 'signupTime' in Users

dropped 'Nan' and 'None' values from 'utmCampaign' in Users_Ads	
dropped 'Nan' and 'None' values from 'category' in Items	
Actions	
TODO	
Axes	
x: category	
y: utmCampaign	

average_number_of_purchased_items_during_the_first_month_after_signin g_in() Data	
Conversions	'userId', 'timestamp', 'quantity'
Users	'userId', 'signupTime'
P	Properties
dropped 'Nan' and 'None' values from 'timestar	mp' and 'quantity' in Conversions
dropped 'Nan' and 'None' values from 'signupT	Time' in Users
Actions	
TODO	
Axes	
x: day after signing in	
y: average quantity	