

Project Development Phase

Sprint - 1

Team ID	PNT2022TMD42088
Project Name	Project - Retail Store Stock Inventory Analytics

SPRINT-1

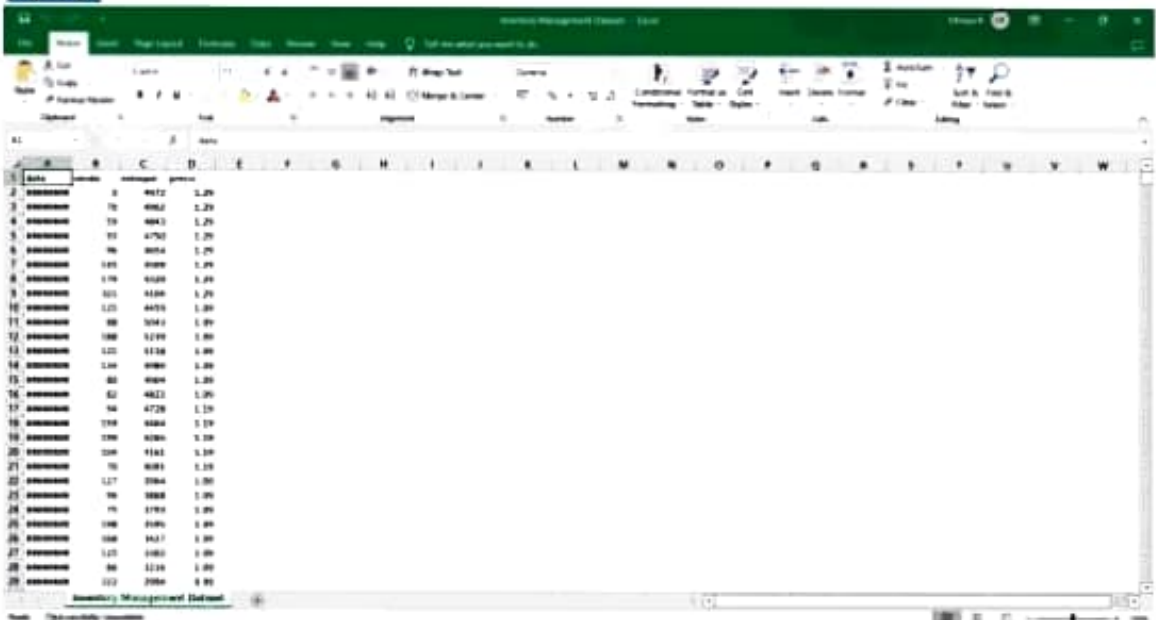
- Data Collection
- Data Preparation

Data Collection:

1. Download the Dataset

Dataset link -

<https://drive.google.com/file/d/1awFIKJ9LIldnNHwGLcsqNDbbwshFHR-w/view>



date	item	quantity	price
2020-01-01	apple	10	4012
2020-01-01	banana	10	4062
2020-01-01	orange	10	4043
2020-01-01	grape	10	4750
2020-01-01	pear	10	4054
2020-01-01	cherry	10	4000
2020-01-01	plum	10	4020
2020-01-01	peach	10	4100
2020-01-01	apricot	10	4070
2020-01-01	lemon	10	3044
2020-01-01	lime	10	3200
2020-01-01	kiwi	10	3130
2020-01-01	coconut	10	4080
2020-01-01	avocado	10	4004
2020-01-01	strawberry	10	4612
2020-01-01	raspberry	10	4720
2020-01-01	blueberry	10	4004
2020-01-01	blackberry	10	4004
2020-01-01	elderberry	10	4100
2020-01-01	honeydew	10	4004
2020-01-01	cantaloupe	10	4100
2020-01-01	watermelon	10	4004
2020-01-01	melon	10	4100
2020-01-01	pepper	10	4004
2020-01-01	onion	10	4004
2020-01-01	garlic	10	4004
2020-01-01	potato	10	4004
2020-01-01	tomato	10	4004
2020-01-01	eggplant	10	4004
2020-01-01	zucchini	10	4004
2020-01-01	broccoli	10	4004
2020-01-01	cauliflower	10	4004
2020-01-01	spinach	10	4004
2020-01-01	kale	10	4004
2020-01-01	lettuce	10	4004
2020-01-01	cucumber	10	4004
2020-01-01	egg	10	4004
2020-01-01	chicken	10	4004
2020-01-01	beef	10	4004
2020-01-01	pork	10	4004
2020-01-01	fish	10	4004
2020-01-01	seafood	10	4004
2020-01-01	dairy	10	4004
2020-01-01	meat	10	4004
2020-01-01	vegetables	10	4004
2020-01-01	fruits	10	4004
2020-01-01	grains	10	4004
2020-01-01	legumes	10	4004
2020-01-01	nuts	10	4004
2020-01-01	seeds	10	4004
2020-01-01	herbs	10	4004
2020-01-01	spices	10	4004
2020-01-01	condiments	10	4004
2020-01-01	alcohol	10	4004
2020-01-01	beverages	10	4004
2020-01-01	snacks	10	4004
2020-01-01	desserts	10	4004
2020-01-01	sauces	10	4004
2020-01-01	oils	10	4004
2020-01-01	vinegars	10	4004
2020-01-01	flours	10	4004
2020-01-01	sugars	10	4004
2020-01-01	yeasts	10	4004
2020-01-01	additives	10	4004
2020-01-01	preservatives	10	4004
2020-01-01	colorings	10	4004
2020-01-01	flavors	10	4004
2020-01-01	fragrances	10	4004
2020-01-01	perfumes	10	4004
2020-01-01	cosmetics	10	4004
2020-01-01	clothing	10	4004
2020-01-01	shoes	10	4004
2020-01-01	accessories	10	4004
2020-01-01	electronics	10	4004
2020-01-01	home appliances	10	4004
2020-01-01	furniture	10	4004
2020-01-01	decor	10	4004
2020-01-01	garden	10	4004
2020-01-01	tools	10	4004
2020-01-01	hardware	10	4004
2020-01-01	software	10	4004
2020-01-01	books	10	4004
2020-01-01	magazines	10	4004
2020-01-01	comics	10	4004
2020-01-01	games	10	4004
2020-01-01	toys	10	4004
2020-01-01	hobbies	10	4004
2020-01-01	pets	10	4004
2020-01-01	plants	10	4004
2020-01-01	flowers	10	4004
2020-01-01	seeds	10	4004
2020-01-01	soil	10	4004
2020-01-01	fertilizers	10	4004
2020-01-01	pesticides	10	4004
2020-01-01	herbicides	10	4004
2020-01-01	fungicides	10	4004
2020-01-01	insecticides	10	4004
2020-01-01	rodenticides	10	4004
2020-01-01	acaricides	10	4004
2020-01-01	nematicides	10	4004
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2020-01-01	nematicides	10	4004
2020-01-01	miticides	10	4004
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2020-01-01	acaricides	10	4004
2020-01-01	nematicides	10	4004
2020-01-01	miticides	10	4004
2020-01-01	fungicides	10	4004
2020-01-01	insecticides	10	4004
2020-01-01	rodenticides	10	4004
2020-01-01	acaricides	10	4004
2020-01-01	nematicides	10	400

Qlik Sense Analytics with Microsoft | New data module

Home module | Grid | Relationships | Custom tables

Search

New data module

- Navigation paths
- Inventory H...about line
- Revenue
- PI Data
- Year
- Value
- Stock
- Price

Revenue	PI_Ratio	Row ID	Year	Value	Stock	Price
0	1	1	1/1/14	0	4972	1
90.3	1	2	1/1/14	70	4900	1
76.11	1	4	1/1/14	34	4843	1
124.97	1	4	1/4/14	91	4790	1
123.84	1	5	1/5/14	96	4654	1
187.06	1	6	1/6/14	245	4609	1
230.91	1	7	1/7/14	279	4329	1
424.07000000000001	1	8	1/8/14	323	4104	1
136.25	1	9	1/9/14	325	4091	1
91.92	1	10	1/10/14	98	4043	1
264.92000000000002	1	11	1/11/14	188	5239	1
7.180000000000001	1	12	1/12/14	120	5110	1

Sales Format Data:

Qlik Sense Analytics with Microsoft | New data module

Home module | Grid | Relationships | Custom tables

Search

New data module

- Navigation paths
- Inventory H...about line
- Revenue
- PI Data
- Year
- Value
- Stock
- Price

Data format

Category: Value

Format type: Number

Number of decimal places: 0

Thousands separator: No

Thousands separator position: Default

Missing value placeholder: empty

Advanced options

Reset properties

Cancel OK

Qlik Sense Analytics with Microsoft | New data module

Home module | Grid | Relationships | Custom tables

Search

New data module

- Navigation paths
- Inventory H...about line
- Revenue
- PI Data
- Year
- Value
- Stock
- Price

Revenue	PI_Ratio	Row ID	Year	Value	Stock	Price
0	1	1	1/1/14	0	4972	1
90.3	1	2	1/1/14	70	4900	1
76.11	1	4	1/1/14	34	4843	1
124.97	1	4	1/4/14	91	4790	1
123.84	1	5	1/5/14	96	4654	1
187.06	1	6	1/6/14	245	4609	1
230.91	1	7	1/7/14	279	4329	1
424.07000000000001	1	8	1/8/14	323	4104	1
136.25	1	9	1/9/14	325	4091	1
91.92	1	10	1/10/14	98	4043	1
264.92000000000002	1	11	1/11/14	188	5239	1
7.180000000000001	1	12	1/12/14	120	5110	1

M_Data Properties:

Id	Revenue	M_Data	Row Id	Year	Sales
1	1	1	1	1/1/14	1
2	2	2	2	1/2/14	2
3	3	3	3	1/3/14	3
4	4	4	4	1/4/14	4
5	5	5	5	1/5/14	5
6	6	6	6	1/6/14	6
7	7	7	7	1/7/14	7
8	8	8	8	1/8/14	8
9	9	9	9	1/9/14	9
10	10	10	10	1/10/14	10
11	11	11	11	1/11/14	11
12	12	12	12	1/12/14	12

Properties

General	Navigation paths
Label	M_Data
Make Visible	<input checked="" type="checkbox"/>
Expression	Value is null
Image	Attribute
Aggregate	Count (distinct)
Data type	Integer
Representations	
Type	
Hierarchy	
Description	

Prepared Data link:

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2Finventory%2BModule

SQL Engine Analytics with Watson

Inventory Module

Search

- Inventory Module
 - Navigation paths
 - Inventory M - latest view
 - Revenue
 - M Data
 - Year
 - Label
 - Stock
 - Price

Grid > Relationships > Custom tables

Ts	Revenue	M_Data	Row ID	Year	Label	Stock	Price
0	0	0	0	1/1/14	0	4977	0
40	0	0	0	1/2/14	70	4940	0
76	0	0	0	1/3/14	58	4853	0
120	0	0	0	1/4/14	41	4790	0
124	0	0	0	1/5/14	46	4808	0
187	0	0	0	1/6/14	140	4939	0
235	0	0	0	1/7/14	179	4824	0
404	0	0	0	1/8/14	321	4804	0
136	0	0	0	1/9/14	121	4804	0
96	0	0	10	1/10/14	88	4840	0
200	0	0	11	1/11/14	188	5234	0
137	0	0	12	1/12/14	121	5118	0
146	0	0	13	1/13/14	140	4904	0
407	0	0	14	1/14/14	340	4904	0
460	0	0	15	1/15/14	401	4872	0

Year Properties:

SQL Engine Analytics with Watson

Inventory Module

Search

- Inventory Module
 - Navigation paths
 - Inventory M - latest view
 - Revenue
 - M Data
 - Year
 - Label
 - Stock
 - Price

Grid > Relationships > Custom tables

Ts	Revenue	M_Data	Row ID	Year	Label	Stock	Price
0	0	0	0	1/1/14	0		
40	0	0	0	1/2/14	70		
76	0	0	0	1/3/14	58		
120	0	0	0	1/4/14	41		
124	0	0	0	1/5/14	46		
187	0	0	0	1/6/14	140		
235	0	0	0	1/7/14	179		
404	0	0	0	1/8/14	321		
136	0	0	0	1/9/14	121		
96	0	0	10	1/10/14	88		
200	0	0	11	1/11/14	188		
137	0	0	12	1/12/14	121		
146	0	0	13	1/13/14	140		
407	0	0	14	1/14/14	340		
460	0	0	15	1/15/14	401		

Properties

General

Navigation paths

Year

Label

Make from users

Expression

Image

Aggregate

Date type

Representative

Form

View

Lookup reference

None

Sales Properties:

SQL Engine Analytics with Watson

Inventory Module

Search

- Inventory Module
 - Navigation paths
 - Inventory M - latest view
 - Revenue
 - M Data
 - Year
 - Label
 - Stock
 - Price

Grid > Relationships > Custom tables

Ts	M_Data	Row ID	Year	Label	Stock	Price
0	0	0	1/1/14	0		
1	0	0	1/2/14	70		
1	0	0	1/3/14	58		
1	0	0	1/4/14	41		
1	0	0	1/5/14	46		
1	0	0	1/6/14	140		
1	0	0	1/7/14	179		
1	0	0	1/8/14	321		
1	0	0	1/9/14	121		
1	0	10	1/10/14	88		
1	0	11	1/11/14	188		
1	0	12	1/12/14	121		
1	0	13	1/13/14	140		
1	0	14	1/14/14	340		
1	0	15	1/15/14	401		

Properties

General

Label

Make from users

Expression

Image

Aggregate

Date type

Representative

Form

View

Lookup reference

None

Description

Stock Properties:

SQL Copilot Analytics with Watson

Inventory Module

Search

Properties

General

Label: Stock

Hide from users: ☒

Expression:

Usage:

Aggregate:

Data type: Integer

Representative:

Default:

Linkup reference:

Role:

Description:

Item	Year	Stock
1	1/1/14	4972
2	1/1/14	4962
3	1/1/14	4941
4	1/4/14	4750
5	1/5/14	4654
6	1/6/14	4509
7	1/7/14	4329
8	1/8/14	4104
9	1/9/14	4459
10	1/10/14	5043
11	1/11/14	5239
12	1/12/14	5110

Price Properties:

SQL Copilot Analytics with Watson

Inventory Module

Search

Properties

General

Label: Price

Hide from users: ☒

Expression:

Usage:

Aggregate:

Data type: Decimal

Representative:

Default:

Linkup reference:

Role:

Description:

Item	Year	Price
1	1/1/14	\$
2	1/1/14	\$
3	1/1/14	\$
4	1/4/14	\$
5	1/5/14	\$
6	1/6/14	\$
7	1/7/14	\$
8	1/8/14	\$
9	1/9/14	\$
10	1/10/14	\$
11	1/11/14	\$
12	1/12/14	\$

Revenue Properties:

SQL Copilot Analytics with Watson

Inventory Module

Search

Properties

General

Label: Revenue

Hide from users: ☒

Expression:

Usage: Calculate after aggregate

Aggregate:

Data type: Decimal

Representative:

Default:

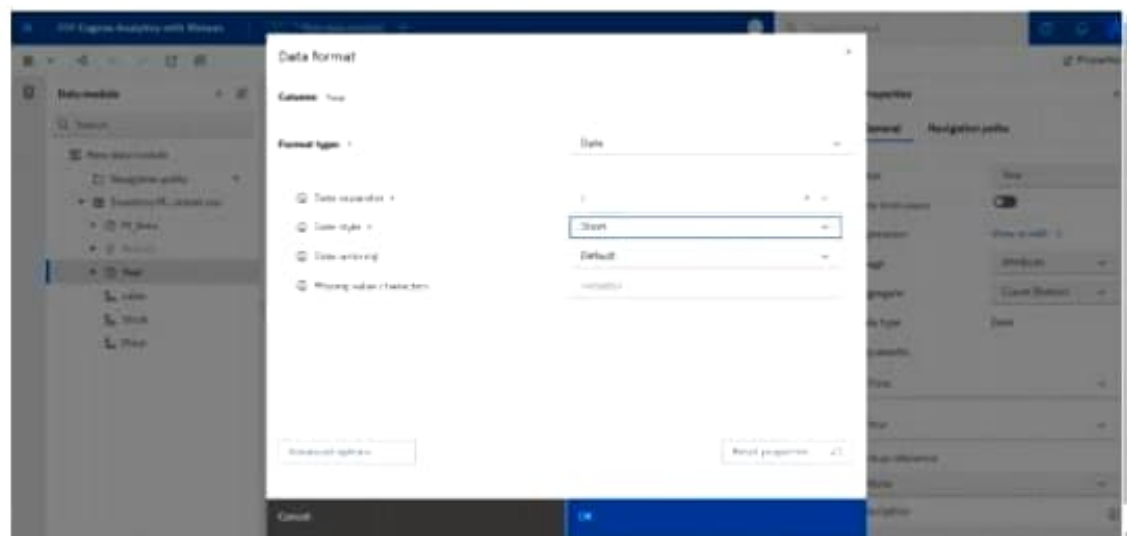
Linkup reference:

Role:

Description:

Item	Year	Revenue
1	1/1/14	1
2	1/2/14	70
3	1/3/14	99
4	1/4/14	90
5	1/5/14	96
6	1/6/14	140
7	1/7/14	179
8	1/8/14	123
9	1/9/14	125
10	1/10/14	88
11	1/11/14	188
12	1/12/14	170

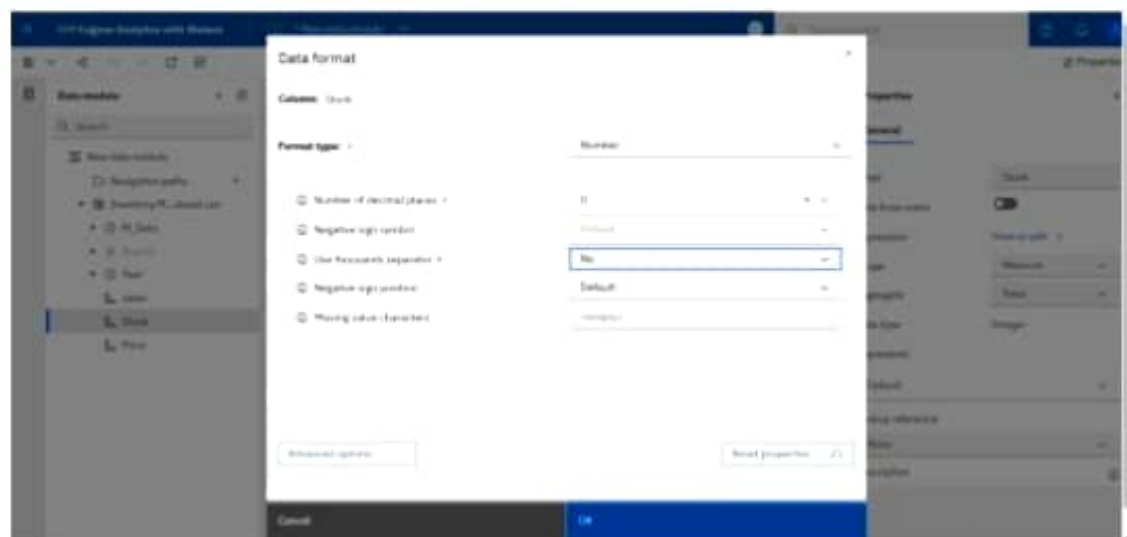
Year Format Data:



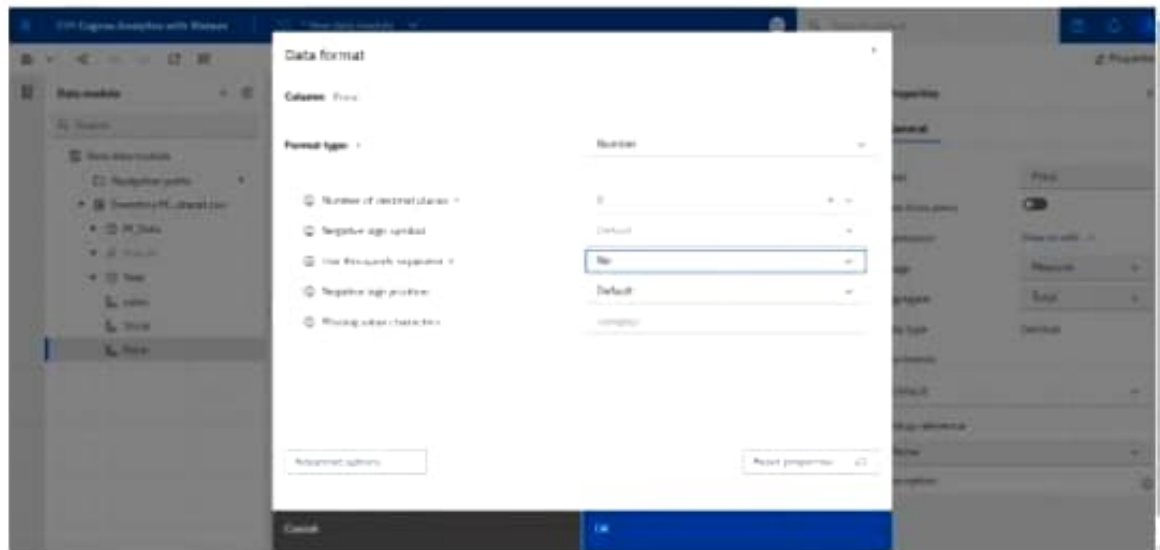
The screenshot shows the Qlik Sense data table with the following columns: **Revenue**, **Year**, **Stock**, and **Price**. The 'Year' column is highlighted, showing dates from 1/1/54 to 1/1/55. The 'Revenue' column shows values ranging from 10.1 to 10.2. The 'Stock' column shows values ranging from 10.1 to 10.2. The 'Price' column shows values ranging from 10.1 to 10.2.

Revenue	Year	Stock	Price
10.1	1/1/54	10.1	10.1
10.1	1/2/54	10.1	10.1
10.1	1/3/54	10.1	10.1
10.1	1/4/54	10.1	10.1
10.1	1/5/54	10.1	10.1
10.1	1/6/54	10.1	10.1
10.1	1/7/54	10.1	10.1
10.1	1/8/54	10.1	10.1
10.1	1/9/54	10.1	10.1
10.1	1/10/54	10.1	10.1
10.1	1/11/54	10.1	10.1
10.1	1/12/54	10.1	10.1
10.1	1/1/55	10.1	10.1

Stock Format Data:



Price Format Data:



TL	M_Data	Row ID	Year	Value	Stock	Price
		1	1/1/14	11	1072	1
		2	1/1/14	10	4901	1
		3	1/1/14	56	4841	1
		4	1/4/14	67	4791	1
		5	1/5/14	96	4634	1
		6	1/6/14	140	4329	1
		7	1/7/14	179	4329	1
		8	1/8/14	321	4104	1
		9	1/9/14	125	4409	1
		10	1/10/14	88	5041	1
		11	1/11/14	188	5279	1
		12	1/12/14	110	5100	1

Revenue Format Data:

Data format

Column: Revenue

Format type: Number

Number of decimal places: 0

Negative sign symbol: No

Use thousands separator: Default

Negative sign position: Default

Showing value characters: Comma

Apply format

Stock Data:

DPM Cognate Analytics with Watson								
New data module								
Data module								
Grid Relationships Custom tables								
Item	Revenue	W_Rate	Row ID	Year	Sales	Stock	Price	
0	0	1	1	2014-01-01	0	4972	1.78	
40.1	1	2	2014-01-02	70	4903	1.78		
76.11	1	3	2014-01-03	10	4845	1.78		
119.87	1	4	2014-01-04	80	4790	1.78		
121.84	1	5	2014-01-05	76	4654	1.78		
187.05	1	6	2014-01-06	140	4509	1.78		
230.91	1	7	2014-01-07	219	4371	1.78		
424.7999999999999	1	8	2014-01-08	323	4164	1.78		
136.29	1	9	2014-01-09	125	4009	1.80		
95.92	1	10	2014-01-10	80	3843	1.80		
206.9299999999999	1	11	2014-01-11	100	3735	1.80		
115.8999999999999	1	12	2014-01-12	123	3518	1.80		
146.06	1	13	2014-01-13	134	3364	1.80		
87.2	1	14	2014-01-14	80	3204	1.80		
89.1899999999999	1	15	2014-01-15	80	3071	1.80		

Sales Data:

DPM Cognate Analytics with Watson								
New data module								
Data module								
Grid Relationships Custom tables								
Item	Revenue	W_Rate	Row ID	Year	Sales	Stock	Price	
0	0	1	1	2014-01-01	0	4972	1.78	
40.1	1	2	2014-01-02	70	4903	1.78		
76.11	1	3	2014-01-03	10	4845	1.78		
119.87	1	4	2014-01-04	80	4790	1.78		
121.84	1	5	2014-01-05	76	4654	1.78		
187.05	1	6	2014-01-06	140	4509	1.78		
230.91	1	7	2014-01-07	219	4371	1.78		
424.7999999999999	1	8	2014-01-08	323	4164	1.78		
136.29	1	9	2014-01-09	125	4009	1.80		
95.92	1	10	2014-01-10	80	3843	1.80		
206.9299999999999	1	11	2014-01-11	100	3735	1.80		
115.8999999999999	1	12	2014-01-12	123	3518	1.80		
146.06	1	13	2014-01-13	134	3364	1.80		
87.2	1	14	2014-01-14	80	3204	1.80		
89.1899999999999	1	15	2014-01-15	80	3072	1.80		

Price Data:

Revenue Data:

Create calculation

Name:

Components

- Inventory M. Dataset view
 - M_Data
 - Year
 - Year
 - Year
 - Year
 - Year
 - Year

Expression

`sum(m_data[price])`

Validation Results

The expression is valid.

☐ Calculate after aggregation

Cancel OK

SQL Engine Analytics with Watson

New data module

Search

Data module

Navigation paths

- Inventory M. Dataset view
 - Revenue
 - M_Data
 - Year
 - Year
 - Year
 - Year
 - Year

Revenue	M_Data	Year	Sales	Stock	Price
0	1	2014-01-01	0	4972	1.29
90.5	2	2014-01-02	76	4902	1.29
76.11	3	2014-01-03	79	4841	1.29
129.07	4	2014-01-04	81	4756	1.29
121.88	5	2014-01-05	86	4654	1.29
187.26	6	2014-01-06	145	4609	1.29
226.91	7	2014-01-07	179	4329	1.29
424.00000000000001	8	2014-01-08	225	4106	1.29
138.25	9	2014-01-09	175	4419	1.08
95.62	10	2014-01-10	88	5042	1.08
304.90000000000001	11	2014-01-11	188	5229	1.08
121.00000000000001	12	2014-01-12	171	5118	1.08
146.06	13	2014-01-13	138	4984	1.08
87.2	14	2014-01-14	80	4964	1.08
86.00000000000001	15	2014-01-15	82	4822	1.08

Year Data:

SQL Engine Analytics with Watson

New data module

Search

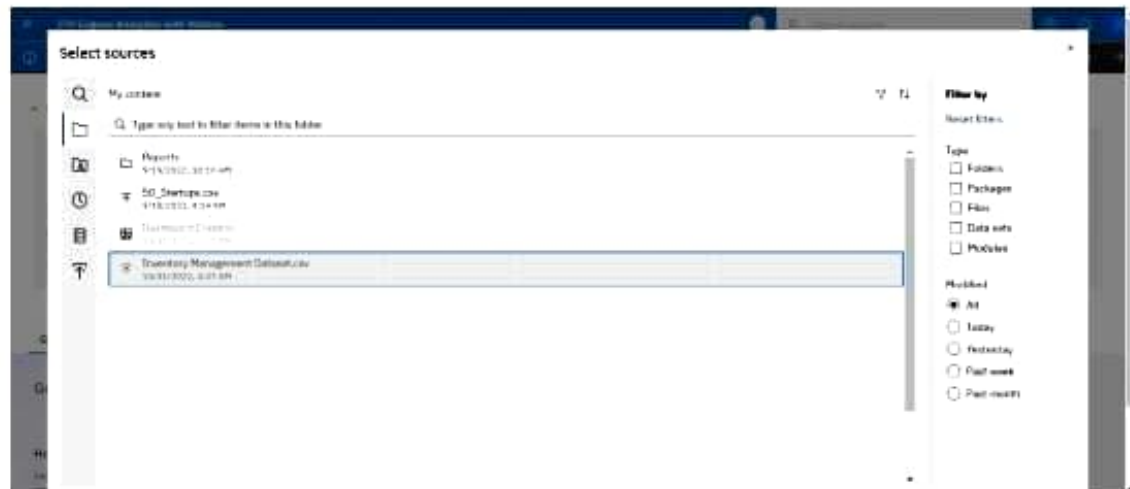
Data module

Navigation paths

- Inventory M. Dataset view
 - Revenue
 - M_Data
 - Year
 - Year
 - Year
 - Year
 - Year

Revenue	M_Data	Year	Sales	Stock	Price
0	1	2014-01-01	0	4972	1.29
90.5	2	2014-01-02	76	4902	1.29
76.11	3	2014-01-03	79	4841	1.29
129.07	4	2014-01-04	81	4756	1.29
121.88	5	2014-01-05	86	4654	1.29
187.26	6	2014-01-06	145	4609	1.29
226.91	7	2014-01-07	179	4329	1.29
424.00000000000001	8	2014-01-08	225	4106	1.29
138.25	9	2014-01-09	175	4419	1.08
95.62	10	2014-01-10	88	5042	1.08
304.90000000000001	11	2014-01-11	188	5229	1.08
121.00000000000001	12	2014-01-12	171	5118	1.08
146.06	13	2014-01-13	138	4984	1.08
87.2	14	2014-01-14	80	4964	1.08
86.00000000000001	15	2014-01-15	82	4822	1.08

Data Preparation:



Month Data(M_Data):



Qlik Sense Analytics with Watson

New data include

Properties

Data module

Search

New data include

Navigation pane

Inventory M_data

Year

Month

Price

Relationships

Custom tables

Id	M_Data	Year	Sales	Stock	Price
1	1	2014-01-01	11	2952	1.29
1	2	2014-01-02	70	2952	1.29
1	3	2014-01-03	109	2952	1.29
1	4	2014-01-04	89	2952	1.29
1	5	2014-01-05	96	2952	1.29
1	6	2014-01-06	115	2952	1.29
1	7	2014-01-07	115	2952	1.29
1	8	2014-01-08	171	2952	1.29
1	9	2014-01-09	115	2952	1.29
1	10	2014-01-10	88	2952	1.29
1	11	2014-01-11	108	2952	1.29
1	12	2014-01-12	121	2952	1.29
1	13	2014-01-13	114	2952	1.29
1	14	2014-01-14	80	2952	1.29
1	15	2014-01-15	83	2952	1.29