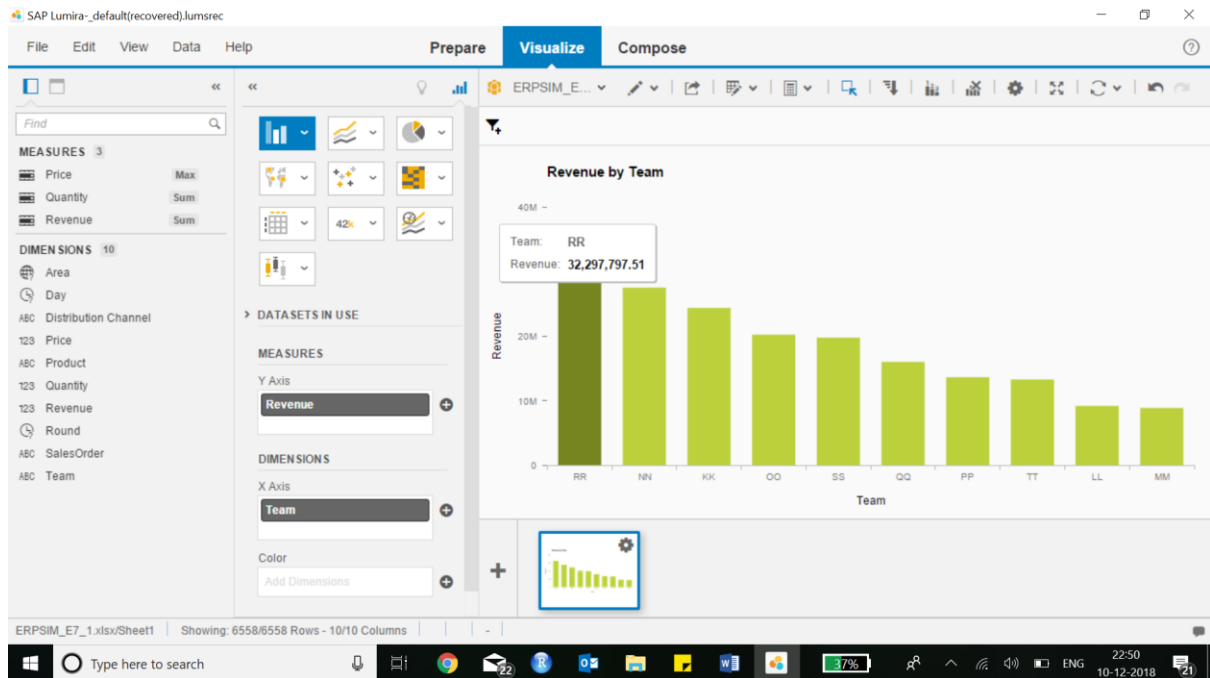


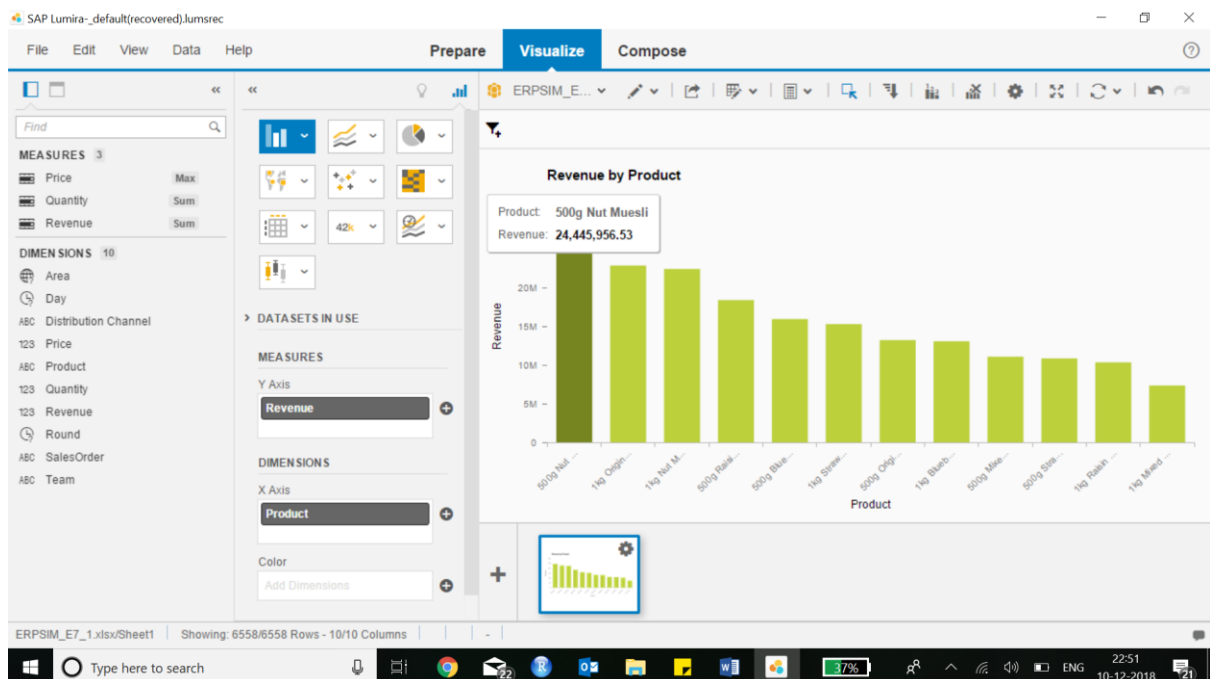
Global Biking Initiative Analysis

Analysis using SAP Lumera

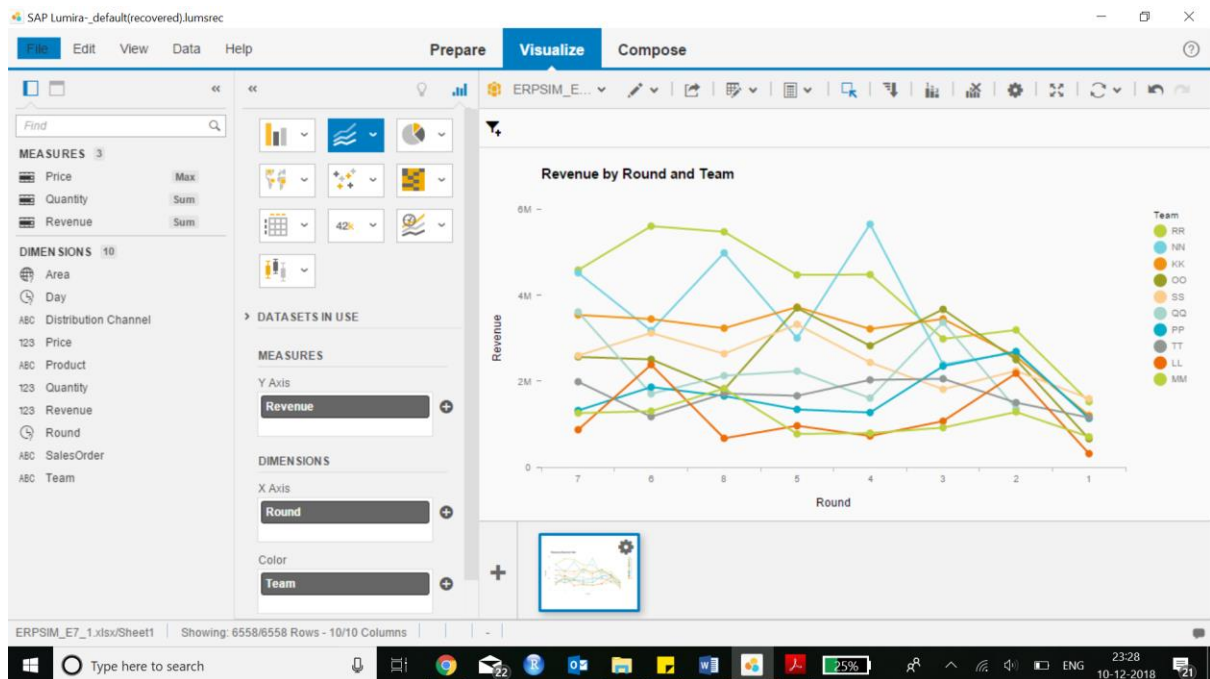
Answer 1: The team RR has the highest revenue of \$32,297,797.51.



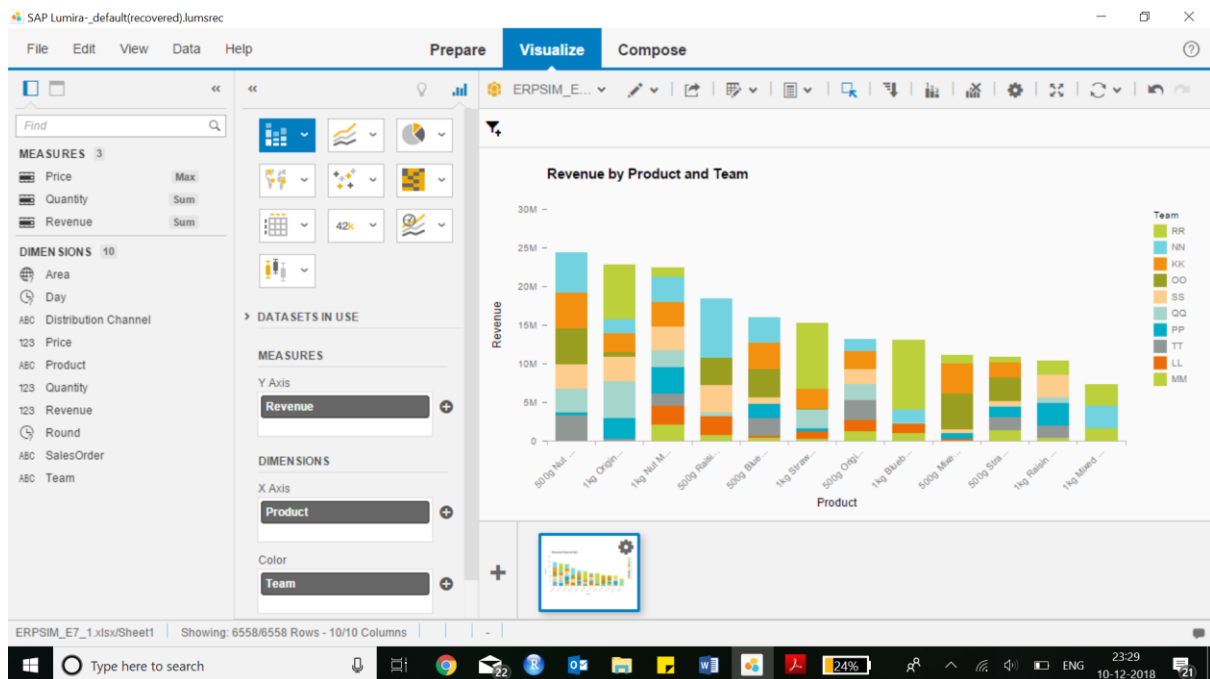
Answer 2: 500g Nut Muesli has the highest revenue of \$24,445,956.53.



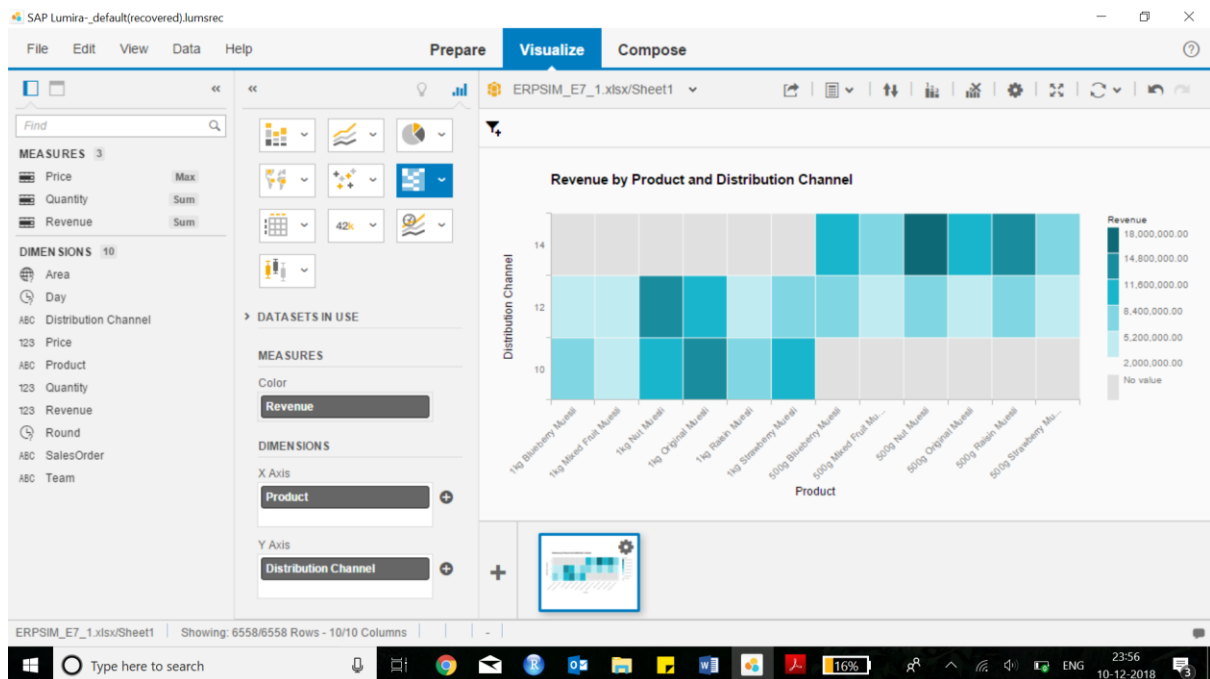
Answer 3:



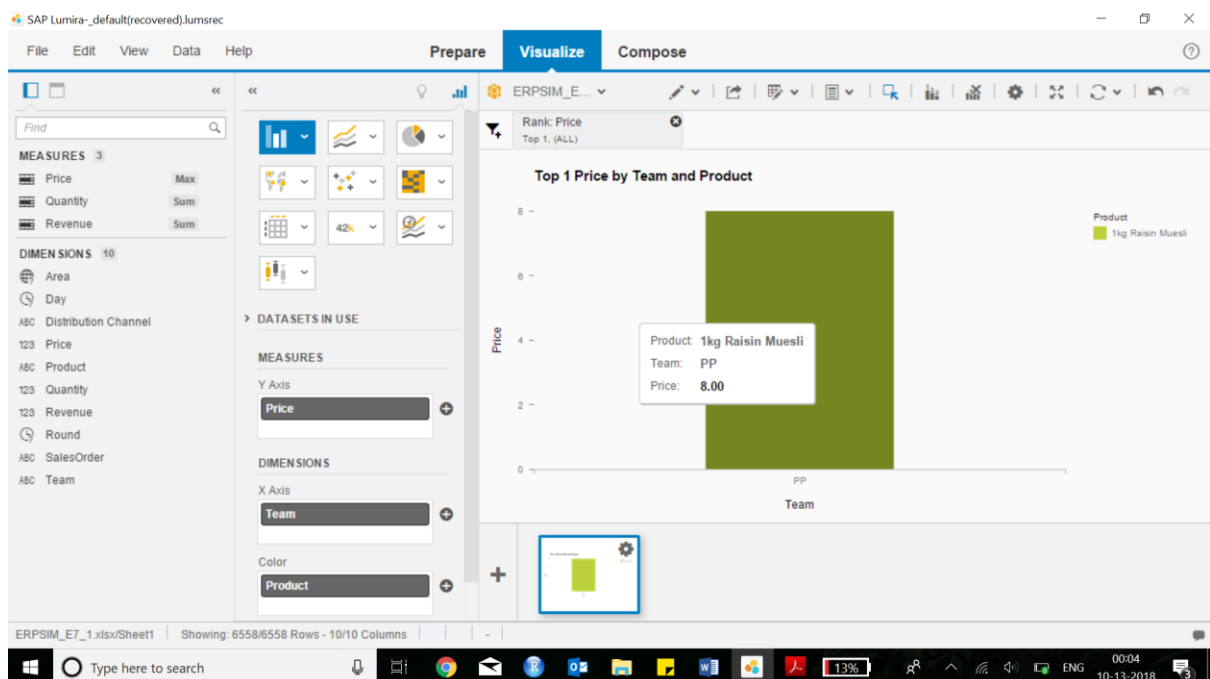
Answer 4:



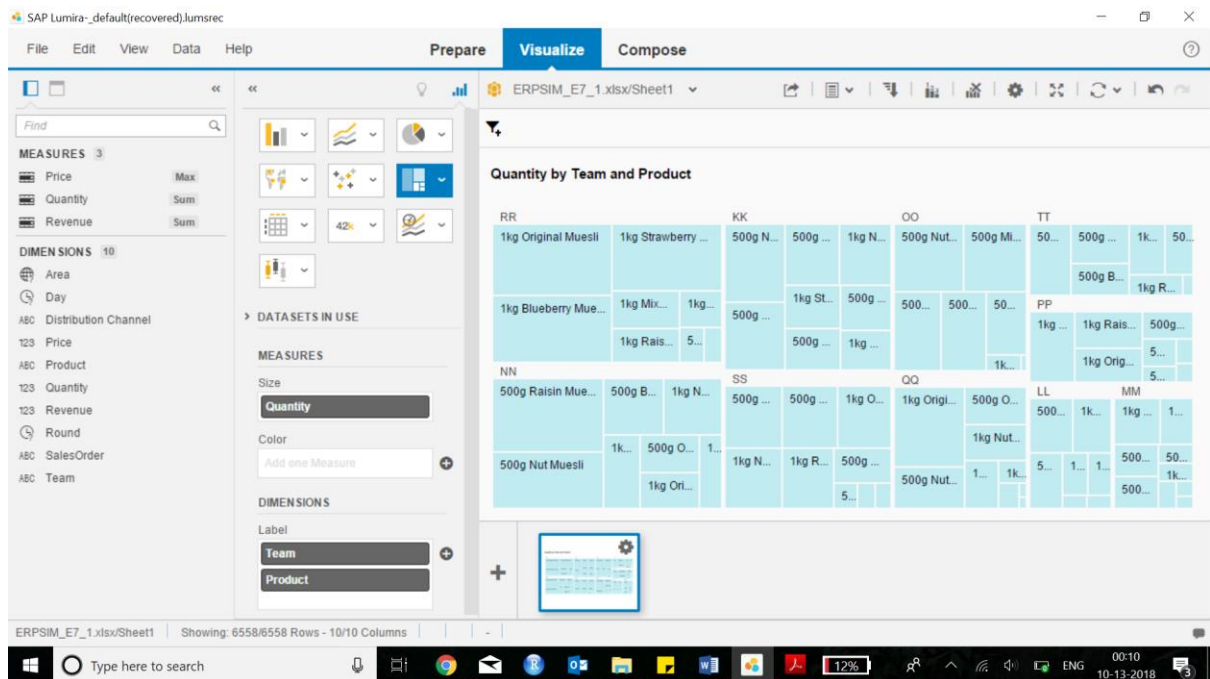
Answer 5: Yes, there are many products that don't sell in specific distribution channels.



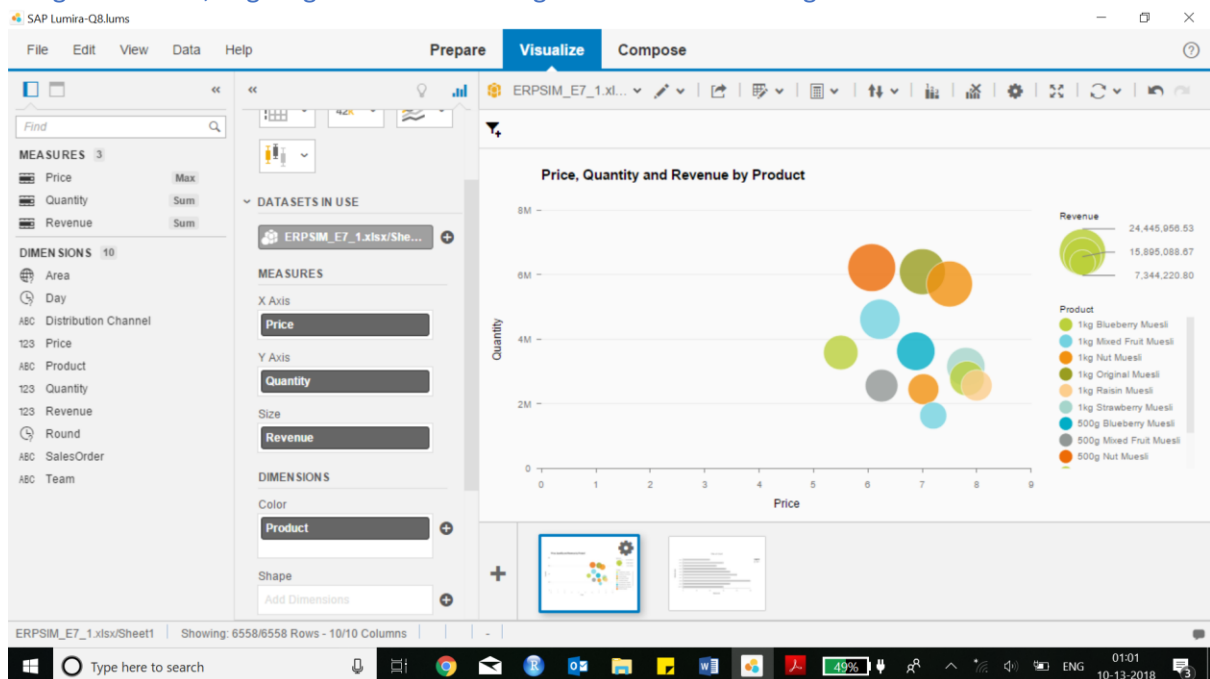
Answer 6: Team PP sold the most expensive 1kg Raisin Muesli of price 8.



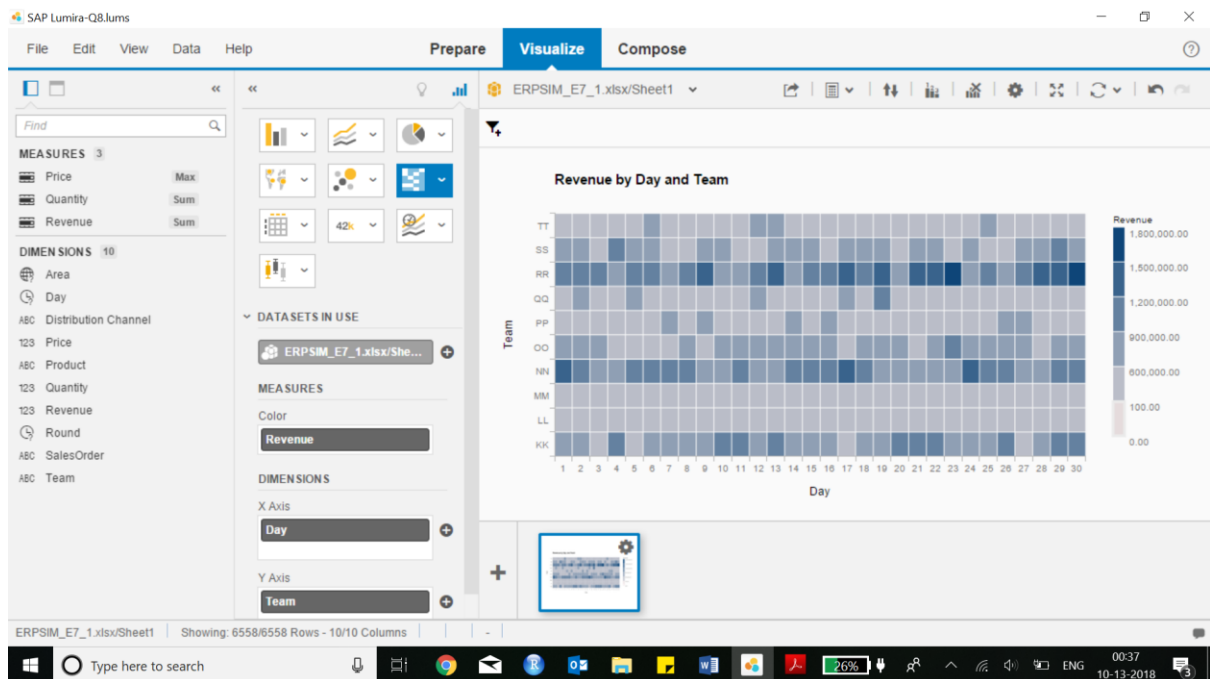
Answer 7: Team RR sold the most quantity of muesli and 1kg Raisin Muesli was most sold by the team.



Answer 8: 1kg Raisin Muesli, 1kg Blueberry Muesli and 1kg Strawberry has the highest price but 500g Nut Muesli, 1kg Original Muesli and 1kg net Muesli has the highest revenue.

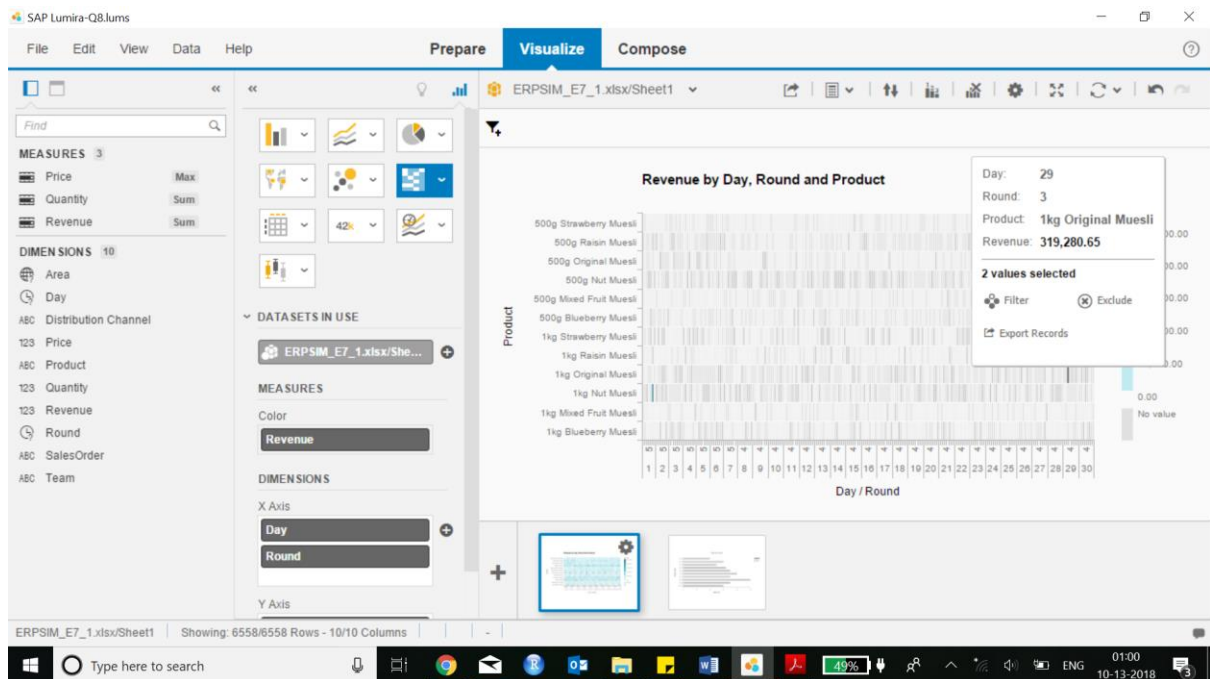


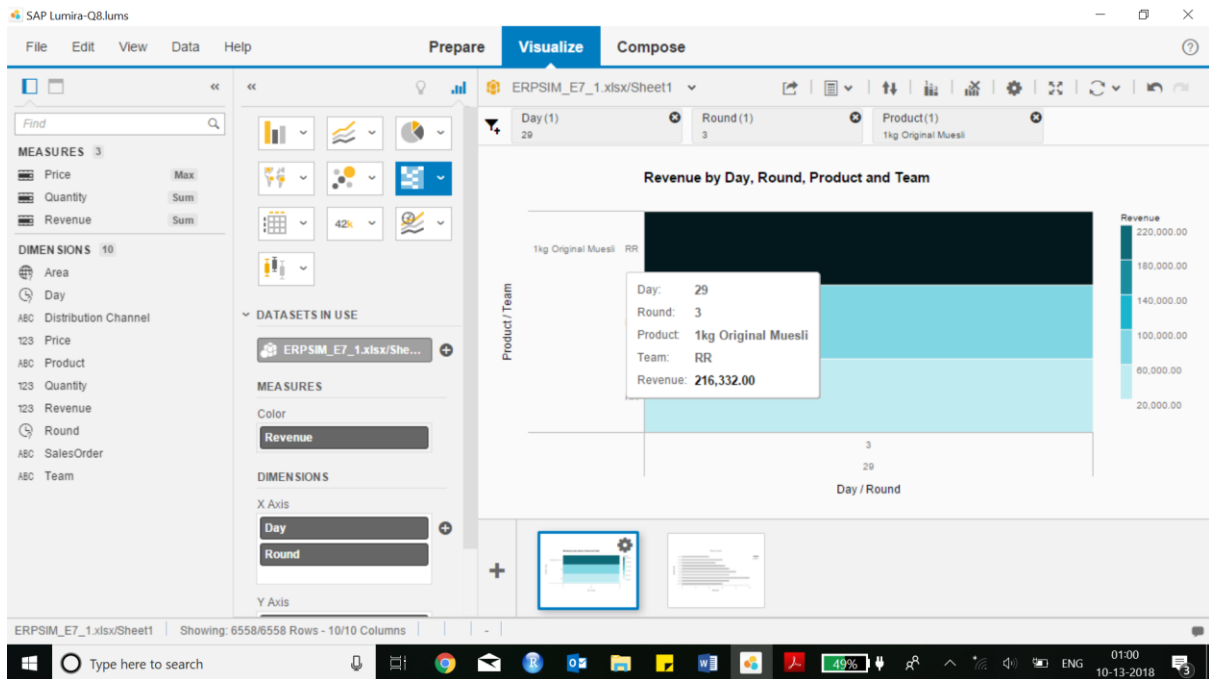
Answer 9: There is no day on which individual teams did not have any revenue.



Team NN made the highest revenue of \$496,639.90 on Day 19 and round 4.

Answer 10: product 1kg Original Muesli has the highest revenue of \$319,280.65 on Day 29 and Round 3 with Team RR provides the highest revenue of \$216,332.





Exercise 10

Create an external Hierarchy for Material

The screenshot shows the SAP Hierarchy Editor interface. The hierarchy is titled "Hierarchy 'YA1128 Components' Change: 'Modified Version'". The hierarchy structure is as follows:

- YA1128 Components
 - Others / None
 - Bicycles
 - City Bike Max
 - E-Bike Tailwind
 - Fixed Gear Bike Plus
 - Accessories
 - T-shirt
 - Water Bottle
 - Water Bottle cage
 - Elbow Pads
 - First Aid Kit
 - Knee Pads
 - Air Pump
 - Road Helmet
 - Repair Kit
 - Sram
 - Deluxe Road Bike (SRAM)
 - Men's Off Road Bike Hard Tail (SRAM)
 - Men's Off Road Bike Fully
 - Women's Off Road Bike Fully
 - Professional Road Bike (SRAM)
 - Campagnolo
 - Professional Road Bike (Campagnolo)
 - Shimano
 - Deluxe Road Bike (Shimano)
 - Deluxe Touring Bike (black)

The table below shows the details of the hierarchy nodes:

InfoObject	Node Na	L.
OHIER_NODE OTHER		
OHIER_NODE BI		
YA1MA128	CITY1000	
YA1MA128	ELBK1000	
YA1MA128	FXGR1000	
OHIER_NODE AS		
YA1MA128	SHRT1000	
YA1MA128	BOTL1000	
YA1MA128	CAGE1000	
YA1MA128	EPAD1000	
YA1MA128	FAID1000	
YA1MA128	KPAD1000	
YA1MA128	PUMP1000	
YA1MA128	RHMT1000	
YA1MA128	RKIT1000	
OHIER_NODE SRAM		
YA1MA128	DXRD2000	
YA1MA128	ORHT2000	
YA1MA128	ORMN1000	
YA1MA128	ORWN1000	
YA1MA128	PRRD2000	
OHIER_NODE CAMPA		
YA1MA128	PRRD3000	
OHIER_NODE SHIMANO		
YA1MA128	DXRD1000	
YA1MA128	DXTR1000	

Create a Query to analyse components

http://bw8.ucc.uwm.edu:50000/rij/servlet/prt/portal/prtroot/pcdl3aportal_content!2fcom.sap.pct!2fplatform_add_ons!2fcom.sap.ip.bi!2fViews!2fcom.sap.ip.bi.bex? Search...

YA1_R1Q7_128 Component View Last Data Update: 10/15/2018 19:43:09

New Analysis | Open | Save As... | Display As: Table | Info | Send | Print Version | Export to Microsoft Excel | Notes | Filter Settings

Columns	YA1128 Material	Components	Revenue% ⁸⁼	YA1128 Revenue ⁸⁼	Sales Price USD ⁸⁼	Transfer Price USD ⁸⁼
• Key Figures					\$	\$
• Rows						
• YA1128 Material						
• Free characteristics						
	• Overall Result		X	0.00	468.55	4,279.90
	• Others / None		X	0.00	375.70	1,435.50
	• Shimano		X	0.00	25.90	911.90
	• Sram		X	0.00	12.45	1,904.80
	• Campagnolo		X	0.00	4.50	2.70
	• Not Assigned YA1128 Material (s)		X	0.00	50.00	25.00

Type here to search

http://bw8.ucc.uwm.edu:50000/rij/servlet/prt/portal/prtroot/pcdl3aportal_content!2fcom.sap.pct!2fplatform_add_ons!2fcom.sap.ip.bi!2fViews!2fcom.sap.ip.bi.bex? Search...

YA1_R1Q7_128 Component View Last Data Update: 10/15/2018 19:43:09

New Analysis | Open | Save As... | Display As: Table | Info | Send | Print Version | Export to Microsoft Excel | Notes | Filter Settings

Columns	YA1128 Material	Components	Revenue% ⁸⁼	YA1128 Revenue ⁸⁼	Sales Price USD ⁸⁼	Transfer Price USD ⁸⁼
• Key Figures					\$	\$
• Rows						
• YA1128 Material						
• Free characteristics						
	• Overall Result		X	0.00	468.55	4,279.90
	• Others / None		X	0.00	375.70	1,435.50
	• Bicycles		X	0.00	6.70	1,252.50
	• Accessories		X	0.00	369.00	183.00
	• Shimano		X	0.00	25.90	911.90
	• Deluxe Road Bike (Shimano)	Shimano Ultegra	X	0.00	1.70	1.00
	• Deluxe Touring Bike (black)	Shimano Road	X	0.00	3.00	1.40
	• Deluxe Touring Bike (silver)	Shimano Road	X	0.00	3.00	1.40
	• Deluxe Touring Bike (Red)	Shimano Road	X	0.00	3.00	1.40
	• Men's Off Road Bike Hard Tail (Shimano)	Shimano XT	X	0.00	1.60	900.00
	• Professional Road Bike (Shimano)	Shimano Dura Ace	X	0.00	4.00	2.20
	• Professional Touring Bike (black)	Shimano XT	X	0.00	3.20	1.50
	• Professional Touring Bike (silver)	Shimano XT	X	0.00	3.20	1.50
	• Professional Touring Bike (red)	Shimano XT	X	0.00	3.20	1.50
	• Sram		X	0.00	12.45	1,904.80
	• Deluxe Road Bike (SRAM)	SRAM Force	X	0.00	1.65	950.00
	• Professional Road Bike (SRAM)	SRAM Red	X	0.00	4.20	2.35

Page 1 of 2

Created a Query for Current View

YA1_R1Q5_128 SCD Current View

Columns: Key Figures, Calendar year

Rows: Sales Organisation, Customer, Free characteristics

		Calendar year		Revenue		Overall Result
		2010	2011			
Sales Organisation	Customer	Location	\$	\$	\$	\$
US East	Beantown Bikes	Boston	3,486,673	3,922,744	7,409,417	
	Big Apple Bikes	New York City	1,864,509	2,371,440	4,235,949	
	DC Bikes	Washington DC	1,480,469	1,813,882	3,294,352	
	Furniture City Bikes	Grand Rapids	670,377	742,830	1,413,207	
	Motown Bikes	Detroit	1,615,603	1,789,923	3,405,526	
	Peachtree Bikes	Atlanta	1,359,690	1,746,020	3,105,710	
	Philly Bikes	Philadelphia	1,507,449	1,798,689	3,306,138	
	Result		11,984,772	14,185,527	26,170,299	
US West	Northwest Bikes	Seattle	1,499,900	1,843,000	3,342,900	
	Rocky Mountain Bikes	Denver	2,056,063	2,165,340	4,221,403	
	Silicon Valley Bikes	Palo Alto	2,989,108		2,989,108	
	SoCal Bikes	Irvine	1,622,934	1,491,878	3,114,812	
	Windy City Bikes	Chicago	1,509,892	1,793,258	3,303,150	
	Result		9,677,898	7,293,476	16,971,374	
Overall Result			21,662,670	21,479,002	43,141,673	

Created a Query for Historic Structure

YA1_R1Q5_128 Historic Structure

Columns: Calendar year, Key Figures

Rows: Sales Organisation, Customer, Free characteristics

		Calendar year		Revenue		Overall Result
		2010	2011	Revenue	Revenue	Revenue
Sales Organisation	Customer	Location	\$	\$	\$	\$
US East	Beantown Bikes	Boston	3,486,673.19	3,922,743.91	7,409,417.10	
	Big Apple Bikes	New York City	1,864,509.33	2,371,439.60	4,235,948.93	
	DC Bikes	Washington DC	1,480,469.45	1,813,882.13	3,294,351.58	
	Furniture City Bikes	Grand Rapids	670,377.10	742,829.97	1,413,207.07	
	Motown Bikes	Detroit	1,615,603.45	1,789,922.81	3,405,526.26	
	Peachtree Bikes	Atlanta	1,359,690.49	1,746,019.56	3,105,710.05	
	Philly Bikes	Philadelphia	1,507,448.98	1,798,688.84	3,306,137.82	
	Result		13,494,664.42	15,978,784.71	29,473,449.13	
US West	Northwest Bikes	Seattle	1,499,900.13	1,842,999.54	3,342,899.67	
	Rocky Mountain Bikes	Denver	2,056,063.49	2,165,339.75	4,221,403.24	
	Silicon Valley Bikes	Palo Alto	2,989,108.38		2,989,108.38	
	SoCal Bikes	Irvine	1,622,933.67	1,491,878.46	3,114,812.13	
	Result		8,168,005.67	5,500,217.75	13,668,223.42	
Overall Result			21,662,670.09	21,479,002.46	43,141,672.55	

Implemented Transactional View

The screenshot shows the SAP Transformation Designer interface. The 'Create Transformation' dialog is open, displaying the 'Time Dependency Reading Master Data' configuration. The 'Rule Type' is set to 'Read Master Data'. The 'Source Fields of Rule' table is empty. The 'Target Fields of Rule' table is also empty. The 'InfoObject' is set to 'Student 142'. The 'Transformation' pane on the right shows the mapping from 'CUBE YA1R1128' to 'CUBE YA1R3128'.

Transformation Configuration:

- Transformation: CUBE YA1R1128 -> CUBE YA1R3128
- Source: YA1128 GBI Reporting (YA1R1128)
- Target: YA1128 Sales Data SCD (YA1R3128)
- Version: New
- Not saved
- Edited Version

Source Fields of Rule:

Field	Long Description	Data type	Length	Conv.Ro.	IOAssignmt	Long Description
-------	------------------	-----------	--------	----------	------------	------------------

Target Fields of Rule:

InfoObject	Ico	Long Description	Data type	Length	Conv.Ro.
------------	-----	------------------	-----------	--------	----------

Transformation Rules:

Rule Name	Pos	Kd	Info
YA1MA128	1	YA1	
MUOCUST	2	MUC	
MUODISCNT	3	MUC	
YA1QTY128	4	YA1	
YA1REV128	5	YA1	
MUONETSA	6	MUC	
MUOCOGM	7	MUC	
OCALYEAR	10	OCA	
OCALMONTH2	11	OCA	
OCALMONTH	12	OCA	
MUOSALORG	13	MUC	

The screenshot shows the SAP Transformation Designer interface. The 'Display Transformation' dialog is open, displaying the 'CUBE YA1R1128 -> CUBE YA1R2128' configuration. The 'Source' is 'YA1128 GBI Reporting (YA1R1128)' and the 'Target' is 'YA1128 Sales Data SCD (YA1R2128)'. The 'Version' is 'Active' and the 'Active Version' is 'Executable'. The 'Transformation' pane on the right shows the mapping from 'CUBE YA1R1128' to 'CUBE YA1R2128'.

Transformation Configuration:

- Transformation: CUBE YA1R1128 -> CUBE YA1R2128
- Source: YA1128 GBI Reporting (YA1R1128)
- Target: YA1128 Sales Data SCD (YA1R2128)
- Version: Active
- Active Version: Executable
- Edited Version

Transformation Rules:

Pos	Kd	InfoObject	Descr.	Data t	Length
1	YA1MA128	YA1128 Material	CHAR	000018	
2	MUOCUST	Customer	CHAR	000010	
3	OCALYEAR	Calendar year	NUMC	000004	
4	OCALMONTH2	Calendar month	NUMC	000002	
5	OCALMONTH	Calendar Year/Month	NUMC	000006	
6	YA1QTY128	YA1128 Sales Quantity	QUAN	000017	
7	YA1REV128	YA1128 Revenue	CURR	000017	
8	MUODISCNT	Discount	CURR	000017	
9	MUONETSA	Net Sales	CURR	000017	
10	MUOCOGM	Cost of Goods Manufactured USD	CURR	000017	
11	OBASE_UOM	Base Unit of Measure	UNIT	000003	
12	OCURRENCY	Currency key	CUKY	000005	

Transformation Rules:

Rule Name	Pos	Kd	Info
YA1MA128	1	YA1	
MUOCUST	2	MUC	
OCALYEAR	3	OCA	
OCALMONTH2	4	OCA	
OCALMONTH	5	OCA	
YA1QTY128	6	YA1	
YA1REV128	7	YA1	
MUONETSA	9	MUC	
MUOCOGM	10	MUC	
MUOCUST	13	MUC	

BEx Query Designer - Query: YA1_R2Q1_128 Slowly Changing Dimensions

Query Edit View Tools Help

InfoProvider
 YA1128 Sales Data SCD

Key Figures
 Cost of Goods M USD
 Discount
 Net Sales
 YA1128 Revenue
 YA1128 Sales Quantit

Dimensions
 Customer
 Product
 Data Package
 Time
 Unit

Rows/Columns
 Free Characteristics

Columns
 Calendar year
 Key Figures
 YA1128 Revenue

Area for Dimensions

Rows
 Sales Organisation
 Customer
 Location

Preview

	a-Calendar	b-Calendar
YA1128 Re	YA1128 Re	YA1128 Re
a-Sales Org	a-Customer	b-Customer
b-Sales Org	a-Customer	b-Customer

Properties
 Customer (Drilldown Characteristic)

General | Display | Hierarchy | Planning | Extended

Description
 Customer

☒ Use Standard Text

Technical Name
 MU0CUST

1 Messages
 Messages for Current Query
 Local query check: Query 'YA1_R2Q1_128 Slowly Changing Dimensions' is correct

Properties Tasks

Transformation Edit Goto Extras System Help

Create Transformation

Start Routine End Routine

Modeling
 Favorites
 Find
 History
 Data Flows
 InfoProvider
 InfoObjects
 InfoSources
 DataSources
 Source Systems
 Open Hub Destination
 Planning Sequences
 Process Chains

Transformation
 CUBE YA1R1128 -> CUBE YA1R2128
 Source: YA1128 GBI Reporting (YA1R1128)
 Target: YA1128 Sales Data SCD (YA1R2128)
 Version: New

Rule Details

Description: MU0CUST

Target InfoObj.: MU0SALORG Sales Organisation

Rule Type: Read Master Data

Conversion Exit: ALPHA Perform

Referent. Integrity: ☐

Transfer Routine: ☐

From Attr. of: MU0CUST

Source Fields of Rule:

Field	Long Description	Data type	Length	Conv.Ro	IOAssignmt	Long Description
/BIC/MU0CUST	Customer	CHAR	10	ALPHA		
CALMONTH	Calendar Year/Month	NUMC	6	PER16		

Target Fields of Rule:

InfoObject	Ico	Long Description	Data type	Length	Conv.Ro

Check Transfer Values

YA1128 Sales Data SCD (

Rule Name	Pos	Info
YA1MA128	1	YA1
MU0CUST	2	MUC
MU0DISCNT	3	MUC
YA1QTY128	4	YA1
YA1REV128	5	YA1
MU0NETSA	6	MUC
MU0COGM	7	MUC
OCALYEAR	10	OCA
OCALMONTH2	11	OCA
OCALMONTH	12	OCA
MU0CUST	13	MUC

Administration
 Transport Connection
 Documents
 BI Content
 Translation
 Metadata Repository

http://bw8.ucc.uwm.edu:50000/rj/servlet/prt/portal/prtroot/pcdf3aportal_content2fcom.sap.pct2fplatform_add_ons2fcom.sap.ip.bi2fViews2fcom.sap.ip.bi.bex? Search...

YA1_R2Q1_128 Slowly Changing Dimensions

New Analysis Open Save As... Display As Table Info Send Print Version Export to Microsoft Excel Notes Filter Settings

Columns

- Calendar year
- Key Figures

Rows

- Sales Organisation
- Customer
- Free characteristics

No Data Available

Could not find any data to display. This might be due to the current selection of variable or filter values

Type here to search

19%

16:50 10-15-2018

InfoCube Edit Goto Extras Environment System Help

Display InfoCube

Modeling

- Favorites
- Find
- History
- Data Flows
- InfoProvider
- InfoObjects
- InfoSources
- DataSources
- Source Systems
- Open Hub Destination
- Planning Sequences
- Process Chains

Administration

- Transport Connection
- Documents
- BI Content
- Translation
- Metadata Repository

InfoProvider

- Student 123
- Student 124
- Student 125
- Student 126
- Student 127
- Student 128
- Student 129
- Student 130
- Student 131
- Student 132
- Student 133
- Student 134
- Student 135
- Student 136
- Student 137
- Student 138

Tech. Name

- YA1123
- YA1124
- YA1125
- YA1126
- YA1127
- YA1128
- YA1R1128
- YA1R2128
- OGV9PSA1L6K66
- YA1R2128
- YA1MA128
- ATTRIBUTES Y
- HIERARCHIES Y
- TEXTS YA1MA1
- YA1129
- YA1130
- YA1131
- YA1132
- YA1133
- YA1134
- YA1135
- YA1136
- YA1137
- YA1138

Version Comparison

Business Content

InfoCube

Techn. name / value	Func.	O...	Appen...	Data ...	L...	Key Fl...	C...
YA1R2128	In Process						
Object Information							
Version	+						
Save							
Revised Version							
Object Status							
Settings							
Dimensions							
Data Package							
Time							
Unit							
Customer							
Customer							
Sales Organisation							
Product							
YA1128 Material							
Navigation Attributes							
Country Key							
Sales Organisation							
Division							
Product Category							
Key Figures							

BI8 (1) 800 | BI8 | INS | 16:40 10-15-2018

