

SMART INTERNZ GUIDED PROJECT

Bicycle Sales Analytics using IBM Cognos

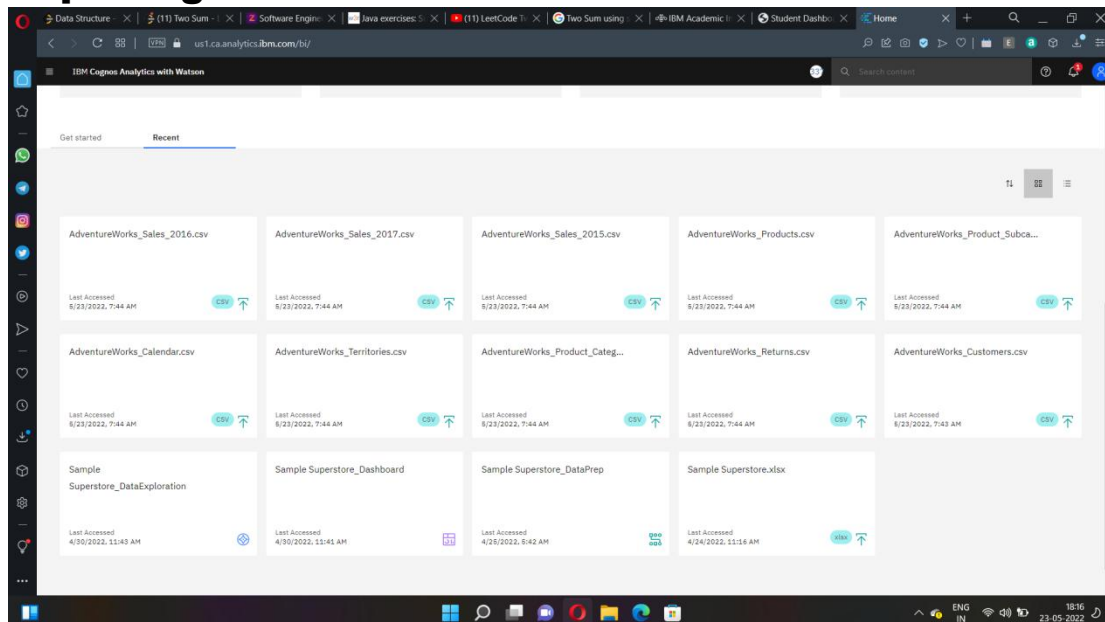
Name-Sumit Kumar

Reg No-19BIT0075

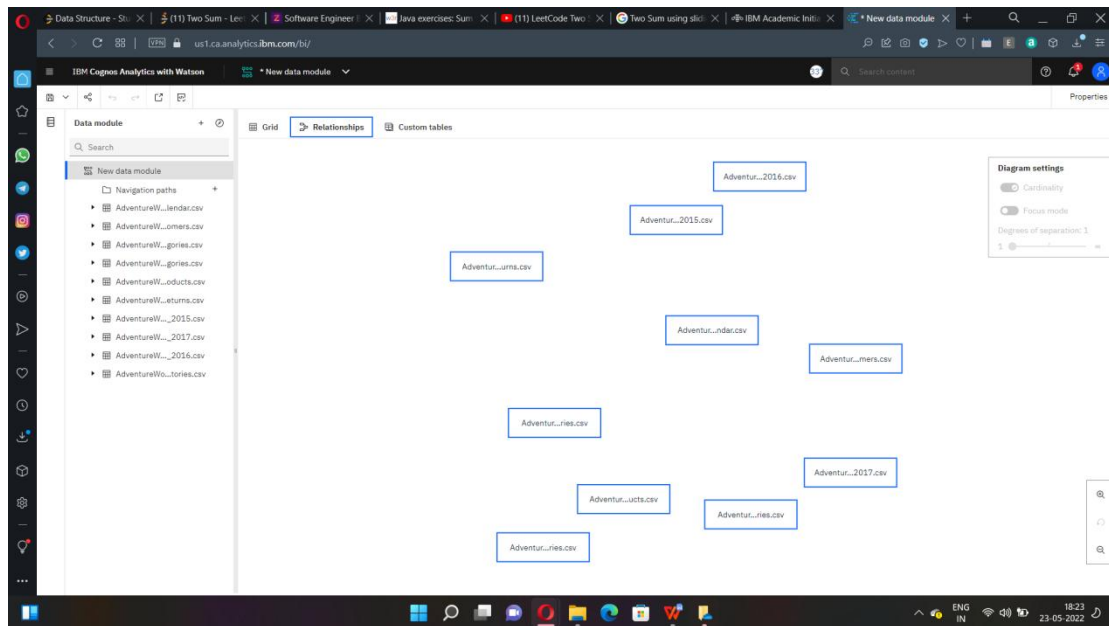
Drive link for the Working Video-

<https://drive.google.com/drive/folders/1HKcR1-tgrf8jcXUeLyqWQdD27hHbEMCN?usp=sharing>

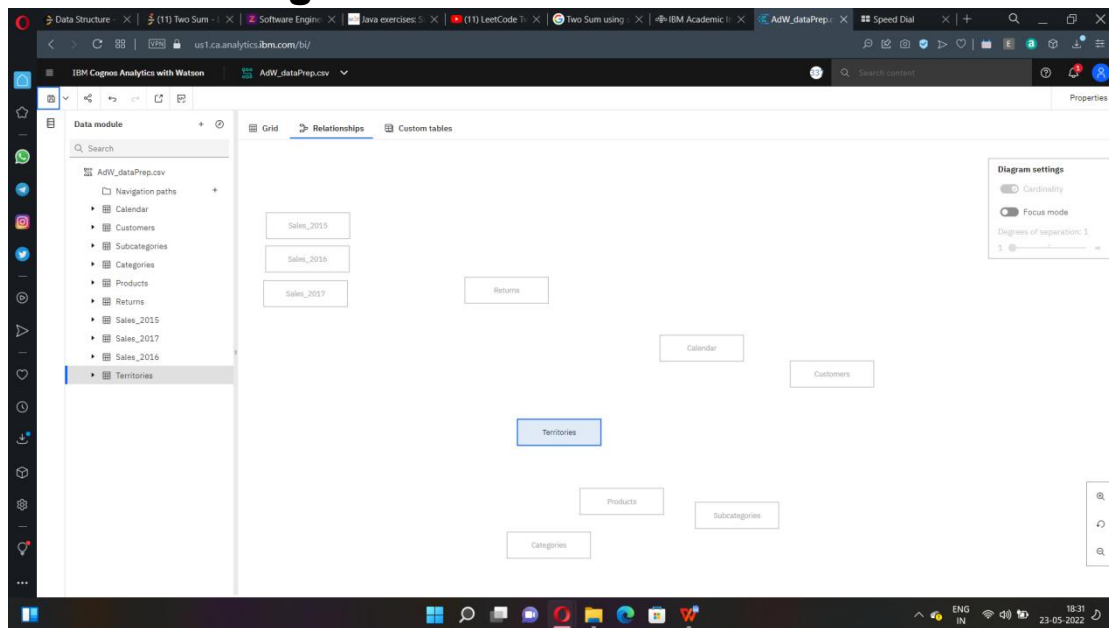
Importing DataSet:



Preparing Data-



After renaming:



Union of the required Fields-

IBM Cognos Analytics with Watson

Create a union of tables

New table name: Sales_2015 - Union (1)

Select Items

Find

Sales_2015

Invert Clear all

Row Id	OrderDate	StockDate	OrderNumber	ProductKey	CustomerKey	Te
1	2015-01-01	2001-09-21	S045080	332	14657	
9	2015-01-03	2001-10-03	S045093	312	18906	
10	2015-01-03	2001-09-29	S045090	310	29170	
21	2015-01-04	2001-12-20	S045099	312	29174	
23	2015-01-05	2001-11-21	S045100	326	19428	
26	2015-01-06	2001-10-01	S045108	310	22975	
31	2015-01-07	2001-11-05	S045109	311	14937	
33	2015-01-07	2001-11-09	S045111	326	25713	
35	2015-01-08	2001-12-14	S045119	314	18740	
37	2015-01-08	2001-11-24	S045116	311	29204	
41	2015-01-08	2001-11-11	S045113	313	29141	
50	2015-01-10	2001-12-26	S045126	311	12480	

Previous Cancel Finish

IBM Cognos Analytics with Watson

Create a union of tables

New table name: Sales_Data

Select Items

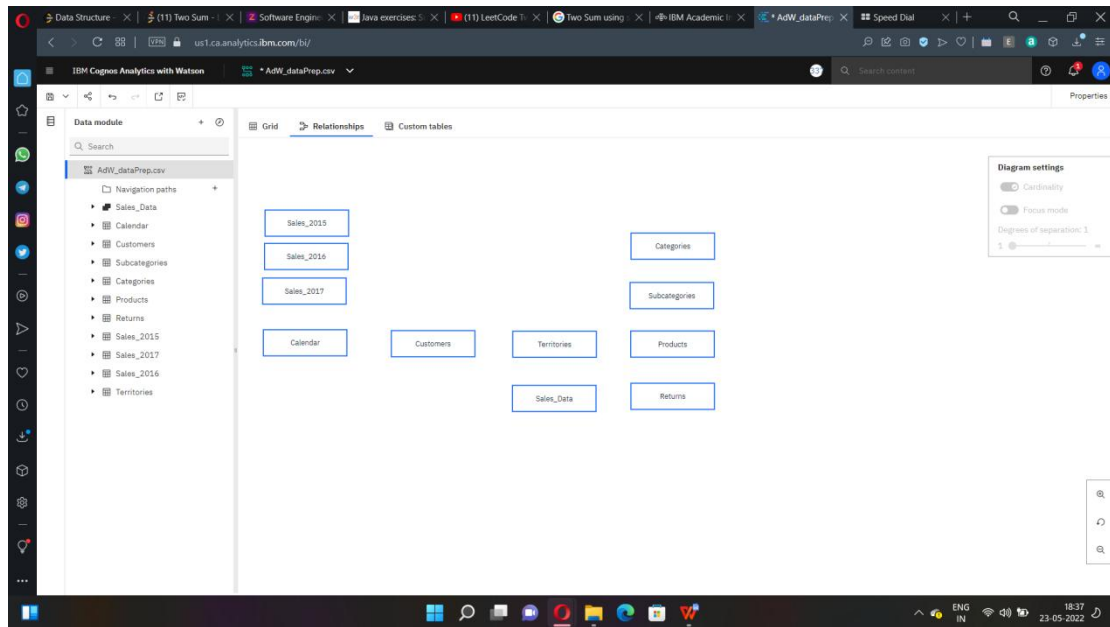
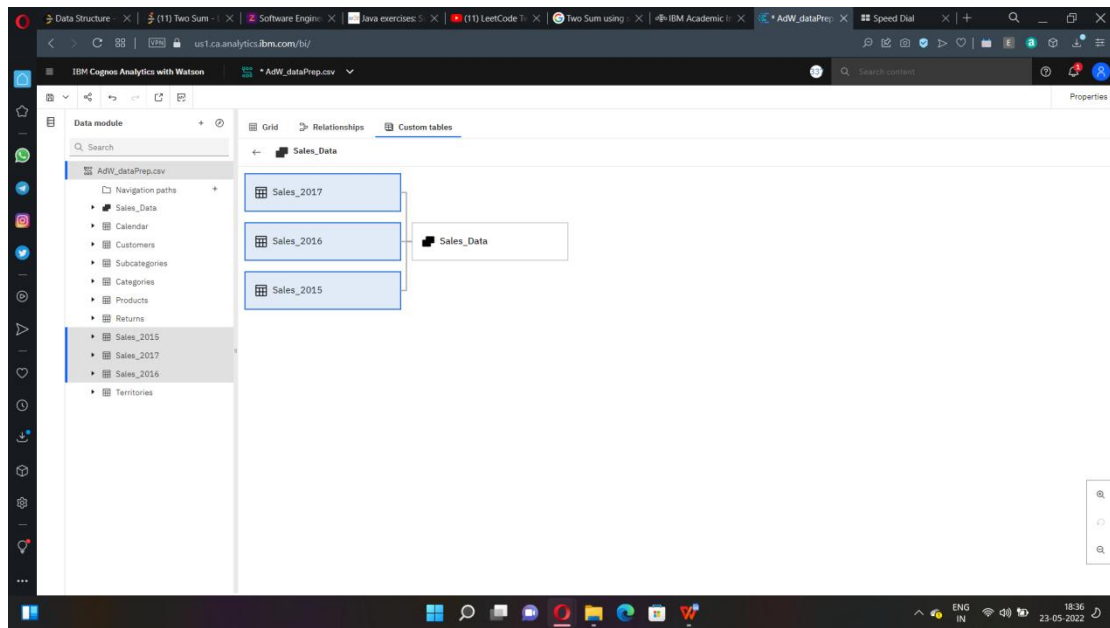
Find

Sales_2015

Invert Clear all

Row Id	OrderDate	StockDate	OrderNumber	ProductKey	CustomerKey	Te
1	2015-01-01	2001-09-21	S045080	332	14657	
9	2015-01-03	2001-10-03	S045093	312	18906	
10	2015-01-03	2001-09-29	S045090	310	29170	
21	2015-01-04	2001-12-20	S045099	312	29174	
23	2015-01-05	2001-11-21	S045100	326	19428	
26	2015-01-06	2001-10-01	S045108	310	22975	
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50	2015-01-10	2001-12-26	S045126	311	12480	

Previous Cancel Finish



Create relationship

Table 1: Categories

- Row Id
- ProductCategoryKey
- CategoryName

Table 2: Subcategories

- Row Id
- ProductSubcategoryKey
- SubcategoryName
- ProductCategoryKey

Match selected columns

Row Id	CategoryName	ProductCategoryKey	Row Id	ProductSubcategoryKey	SubcategoryName
1	Bikes	1	1	1	Mountain Bikes
1	Bikes	1	2	2	Road Bikes
1	Bikes	1	3	3	Touring Bikes
2	Components	2	4	4	Handlebars
2	Components	2	5	5	Bottom Brackets

Insert join, 1-to-many
No filtering

Matched columns (1)

Subcategory and products join:

Create relationship

Table 1: Subcategories

- Row Id
- ProductSubcategoryKey
- SubcategoryName
- ProductCategoryKey

Table 2: Products

- Row Id
- ProductKey
- ProductSKU
- ProductName

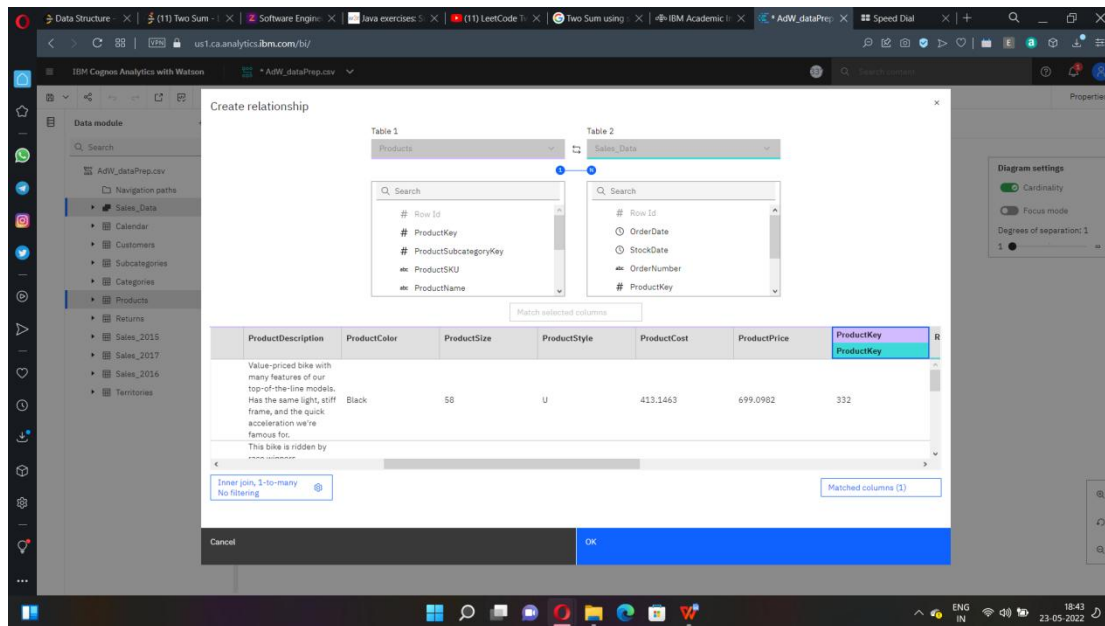
Match selected columns

Row Id	SubcategoryName	ProductCategoryKey	ProductSubcategoryKey	Row Id	ProductKey	ProductSKU	ProductName
31	Helmets	4	31	1	214	HL-U509-R	Sport-1
31	Helmets	4	31	2	215	HL-U509	Sport-1 Black

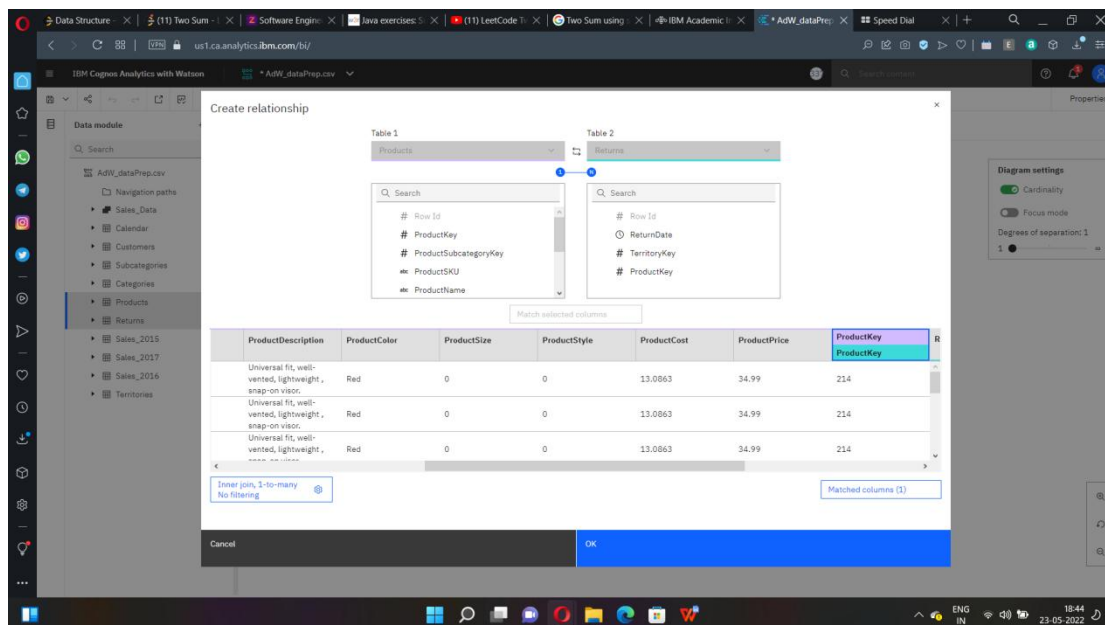
Insert join, 1-to-many
No filtering

Matched columns (1)

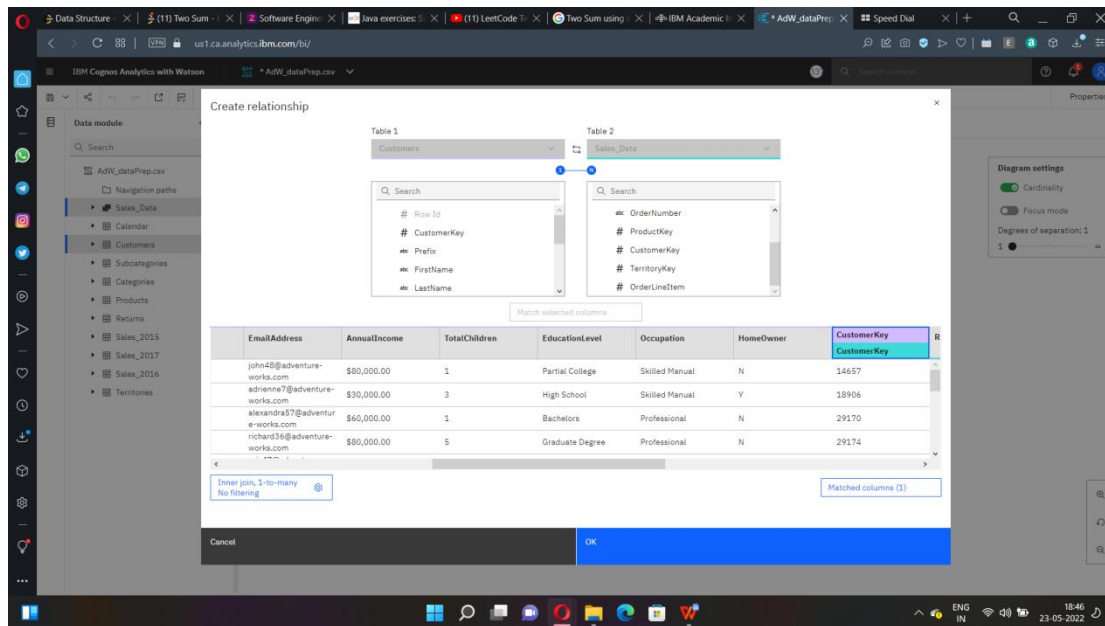
Product and sales data join:



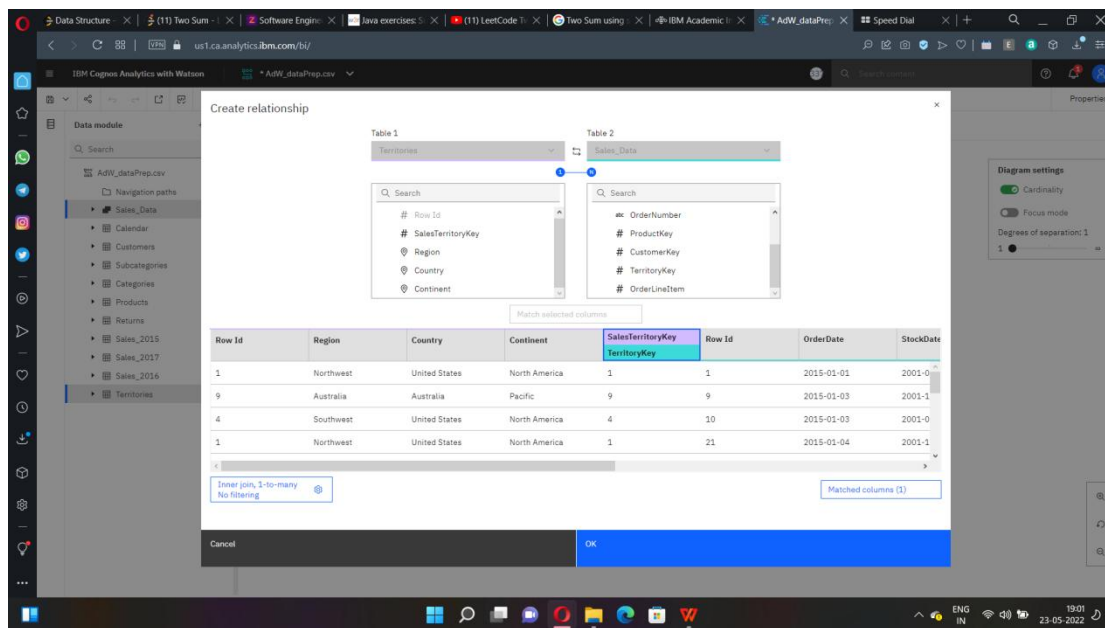
Products and returns join-



Customer and sales join-



Territory and sales data join-



Calendar and Returns join-

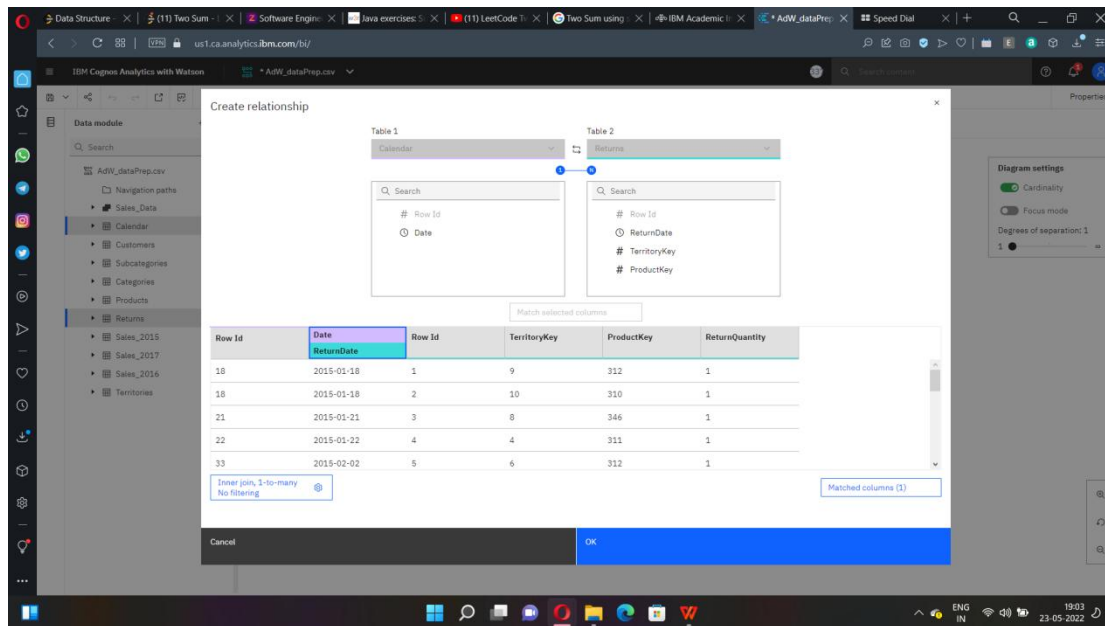
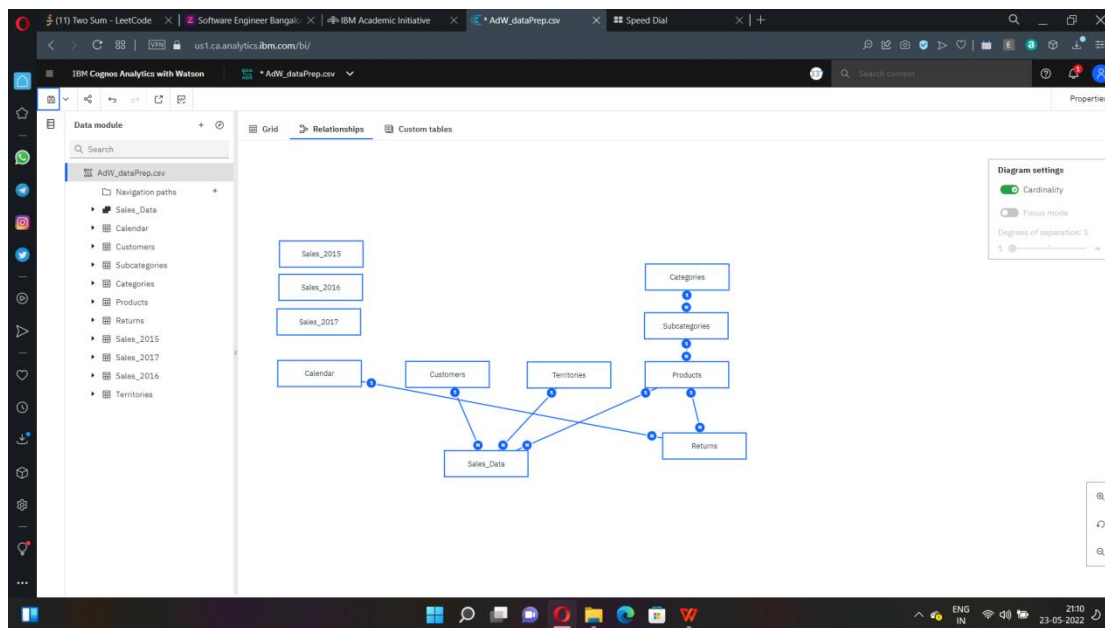
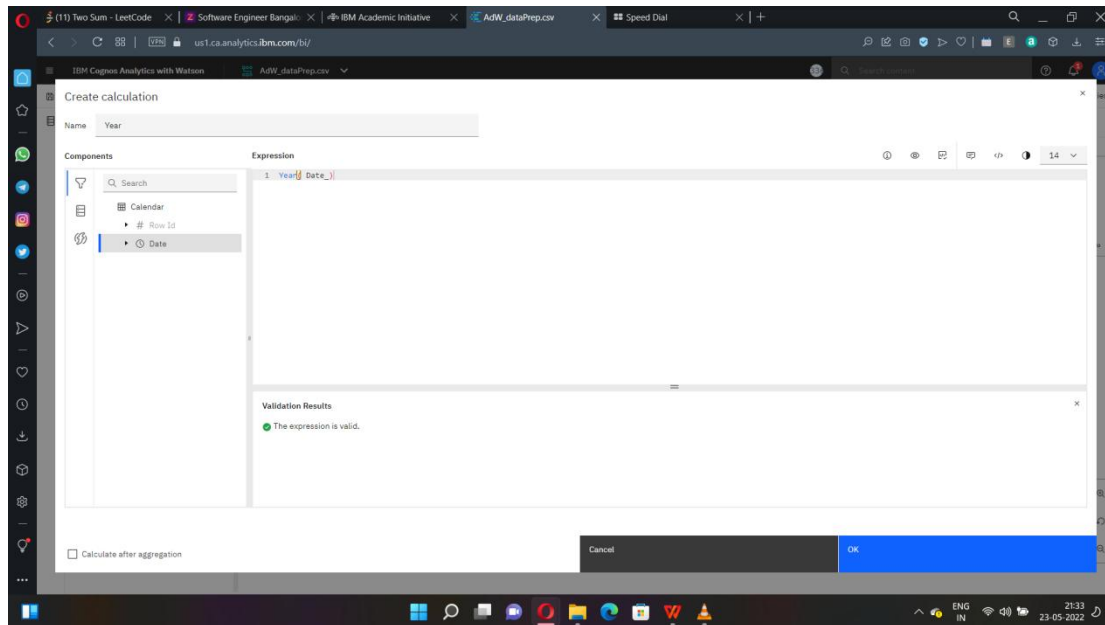


Figure till now after applying joins-

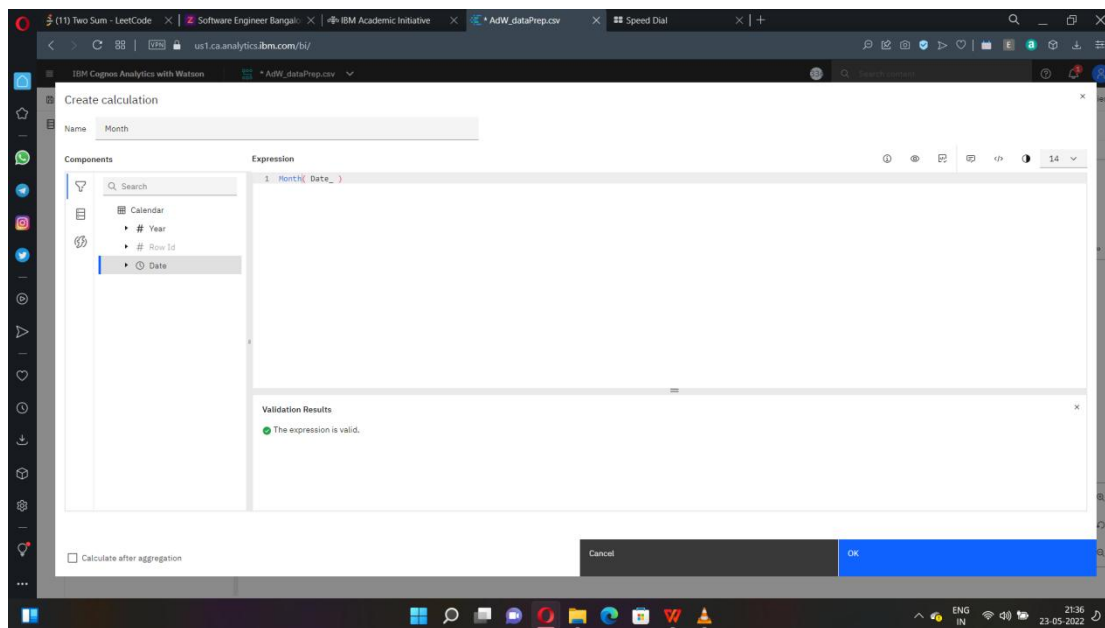


CREATING CALCULATIONS AS FOLLOWS:

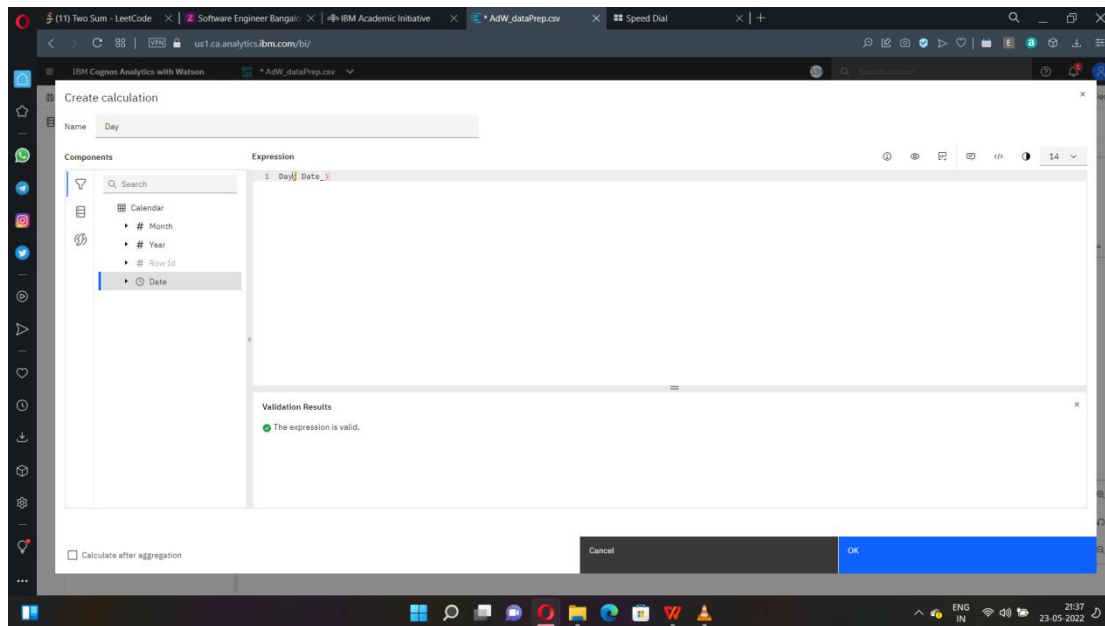
Year calculation:



Month Calculation:



Day Calculation:



Navigation Path as follows:

