

# **Babu Banarasi Das University**



## **Predictive Analytics (BCADS15301)**

**LAB FILE**

**SUBMITTED TO:  
Mr. VIKASH**

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Class: BCADS31**

# Practical Work: Data Integration and Analysis

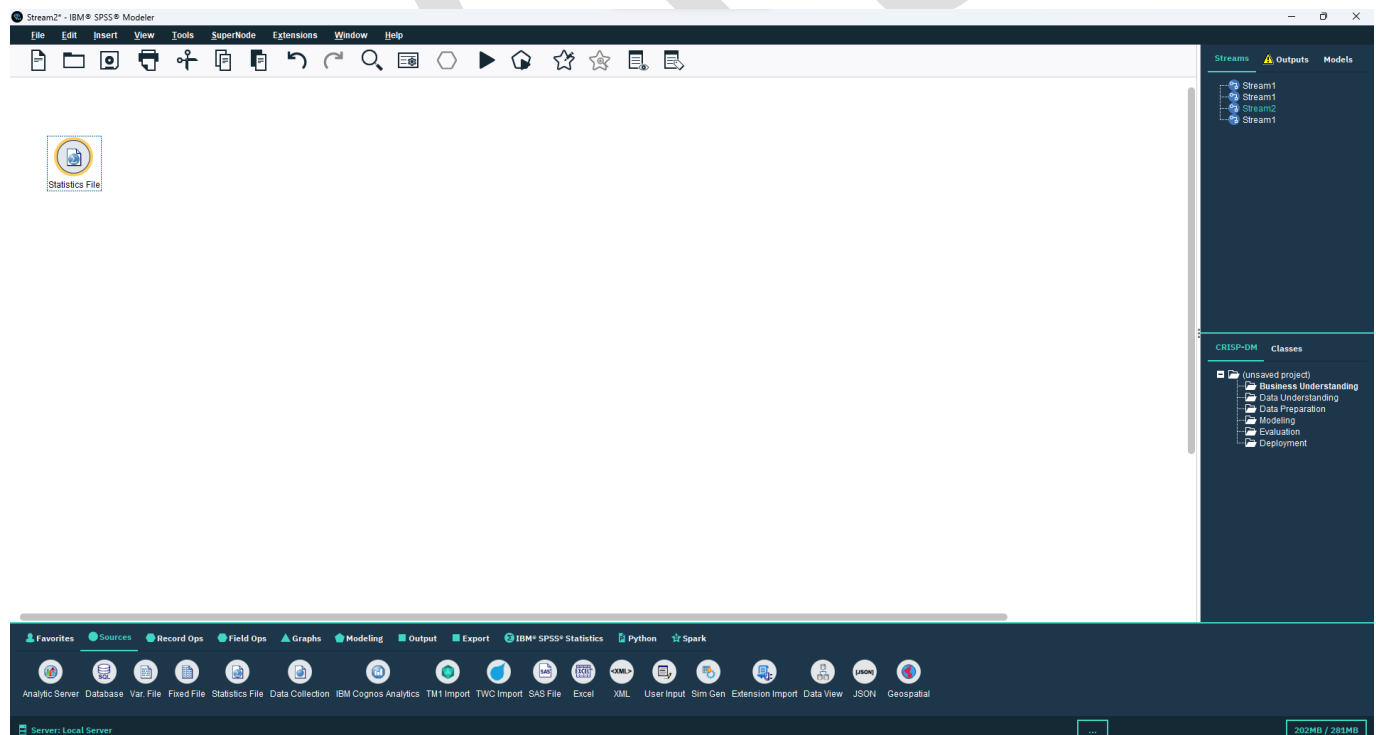
**Definition:** As part of a telecommunications project, you are required to consolidate several datasets into one master dataset to facilitate data analysis and model development.

**Outcomes/Learning:** Learning how to join different data sets  
How to join records of different data sets  
How to sample data from data sets

**Required Tool:** IBM SPSS Modeler Tool

**Working:** Using Merge, Append, Sample nodes to merge two data sets, to append records from two or more data sets, To sample data from whole data sets.

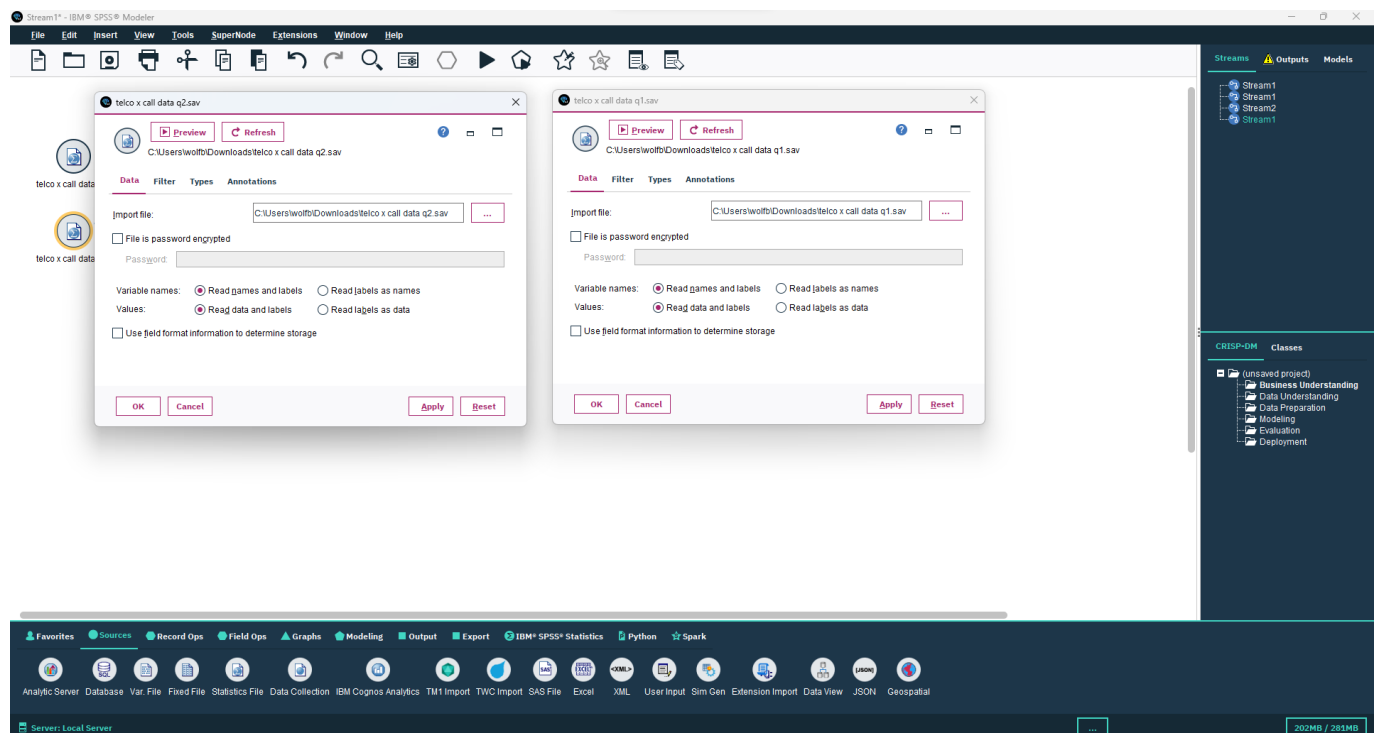
**Step 1:** Open SPSS Modeler tool then on Source category select statistics File node (we are selecting Statistics node because the data set we are using is an sav file.)  
Double clicking on statistics node will make it appear on canvas



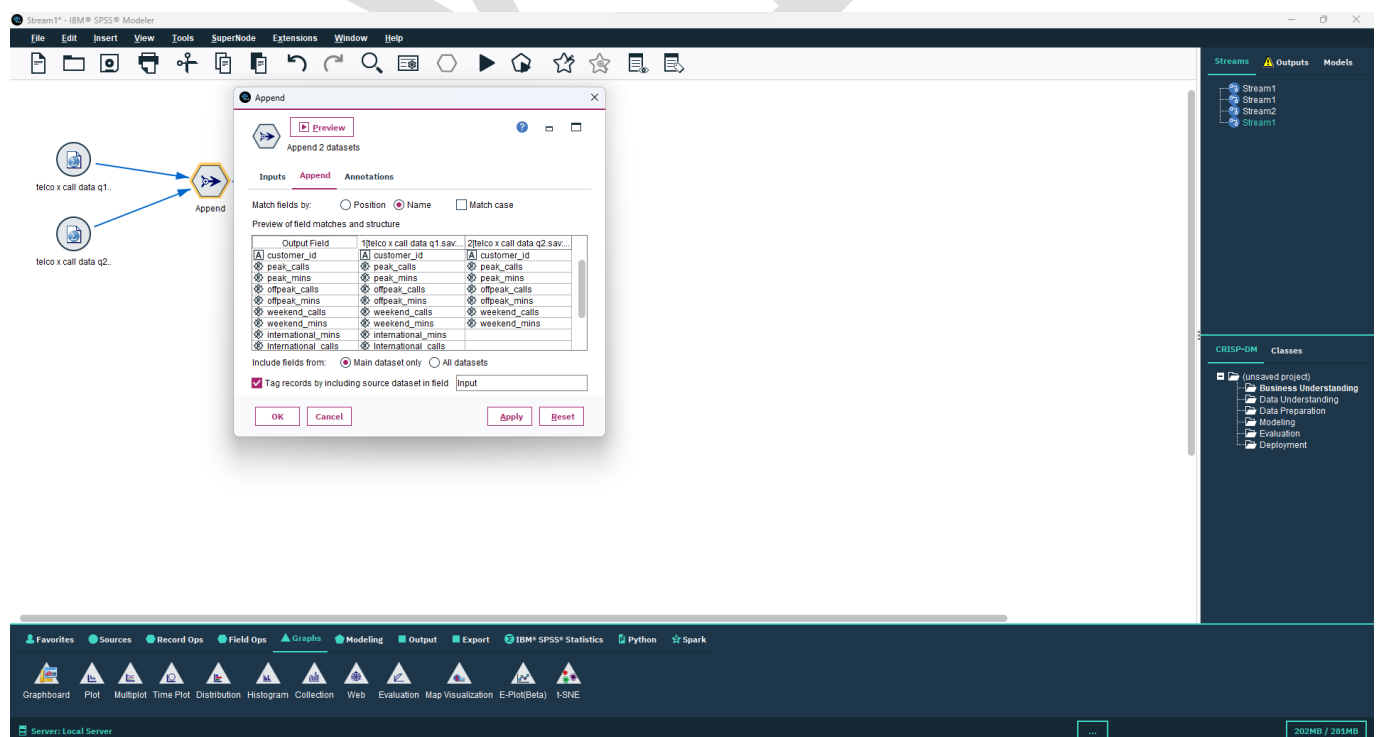
**Step 2:** Now we import a data set using the import option which can be accessed by double clicking on Statistics icon on the canvas.

We import a data set telco x call data q1.sav then import one more statistics file telco x call

data q2.sav.



**Step 3:** We connect both of these files to Append node from Records Ops. click on apply and ok.



**Step 4:** Now we add sort node from Record Ops and connect it to Append node.

Stream1\* - IBM® SPSS® Modeler

File Edit Insert View Tools SuperNode Extensions Window Help

Streams Outputs Models

- Stream1
- Stream1
- Stream2
- Stream1

CRISP-DM Classes

- (unsaved project)
- Business Understanding
- Data Understanding
- Data Preparation
- Modeling
- Evaluation
- Deployment

Sort

Preview

Settings Optimization Annotations

Sort by:

Field	Order
customer_id	Ascending
month	Ascending

Default sort order: ☒ Ascending ☐ Descending

OK Cancel Apply Reset

telco x call data q1.

telco x call data q2.

Append

Sort

Field

Order

customer\_id

Ascending

month

Ascending

Default sort order: ☒ Ascending ☐ Descending

OK Cancel Apply Reset

Server: Local Server

203MB / 283MB

The screenshot displays the IBM SPSS Modeler software interface. On the left, a data flow diagram shows two input streams, 'telco x call data q1.' and 'telco x call data q2.', feeding into an 'Append' node. The output of the 'Append' node flows into a 'Sort' node, which then feeds into an 'Aggregate' node. The 'Aggregate' node is highlighted with a yellow border.

The 'Aggregate' dialog box is open in the center. It has tabs for 'Settings', 'Optimization', and 'Annotations'. The 'Settings' tab is active. Under 'Key fields:', 'customer\_id' is listed. The 'Basic Aggregates' section shows a table of aggregate functions:

Field	Sum	Mean	Min	Max	SDev	Median	Count	Variance	1st Quartile	3rd Quartile
weekend_calls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weekend_mins	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
international_m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
international_ca	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Below the table, the 'Default mode:' section has checkboxes for 'Sum' (checked), 'Mean', 'Min', 'Max', 'SDev', 'Median', 'Count', 'Variance', '1st Quartile', and '3rd Quartile'. The 'New field name extension:' field is empty. The 'Include record count in field' checkbox is checked, and the 'Record\_Count' field is entered in the adjacent text box. The 'Aggregate Expressions' section is empty.

On the right side of the interface, the 'Streams' panel shows a hierarchy of streams: 'Stream1', 'Stream2', and 'Stream3'. The 'Outputs' panel shows a list of outputs: 'Business Understanding', 'Data Understanding', 'Data Preparation', 'Modeling', 'Evaluation', and 'Deployment'. The 'Classes' panel shows a list of classes: 'unsaved project', 'Business Understanding', 'Data Understanding', 'Data Preparation', 'Modeling', 'Evaluation', and 'Deployment'. The bottom status bar shows 'Server: Local Server' and '204MB / 281MB'.

**Step 6:** Now add Merge node from Record ops and connect it to Aggregate node. Select customer\_id as the key for merge and partial outer join by double clicking on Merge node.

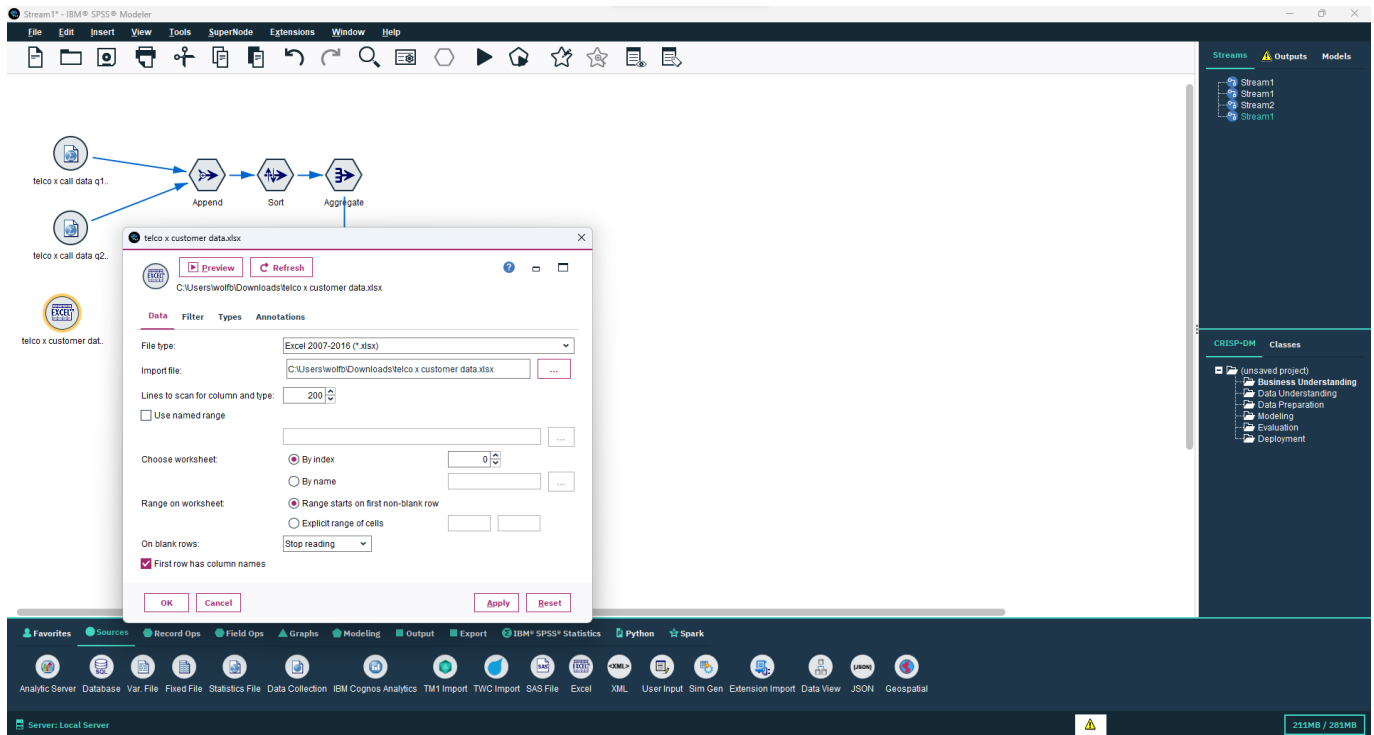
The screenshot shows the IBM SPSS Modeler interface. On the left, a workflow diagram shows two input streams, 'telco x call data q1.' and 'telco x call data q2.', feeding into an 'Append' node, followed by a 'Sort' node, and finally a 'Merge' node. The 'Merge' node is highlighted. On the right, the 'Merge' node configuration dialog is open. The 'Merge Method' is set to 'Keys'. The 'Possible keys' list includes: international\_calls\_Sum, international\_mins\_Sum, offpeak\_calls\_Sum, offpeak\_mins\_Sum, peak\_calls\_Sum, peak\_mins\_Sum, Record\_Count, weekend\_calls\_Sum, and weekend\_mins\_Sum. The 'Keys for merge' list contains 'customer\_id'. The 'Include matching and selected non-matching records (partial outer join)' option is selected. The 'Combine duplicate key fields' checkbox is checked. The 'OK' button is highlighted.

**Step 7:** We connect table node to see any change in data set.

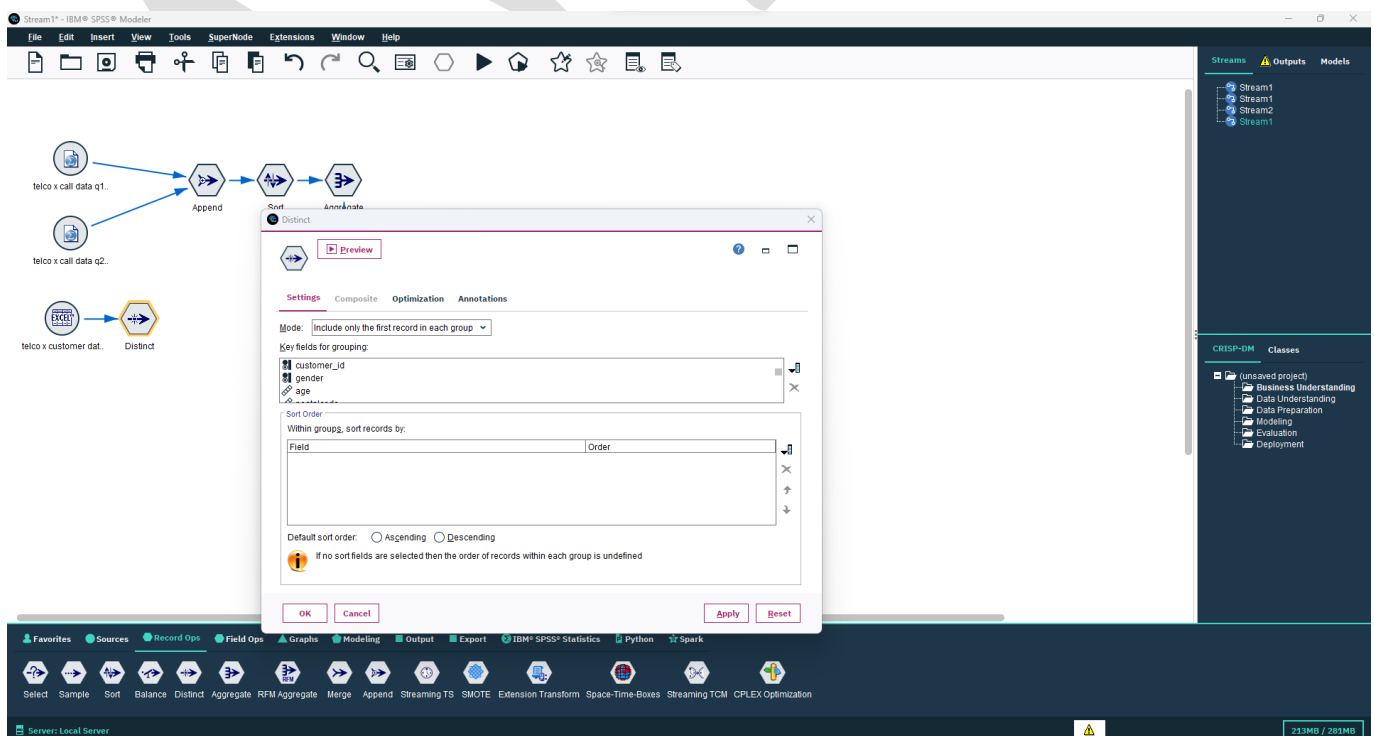
Table (10 fields, 31,769 records)

	customer_id	peak_calls_Sum	peak_mins_Sum	offpeak_calls_Sum	offpeak_mins_Sum	weekend_calls_Sum	weekend_mins_Sum	international_mins_Sum	International_calls_Sum	Record_Count
1	K100010	14.000	36.131	10.000	7.973	24.000	14.533	0.705	7.000	6
2	K100020	54.000	39.437	34.000	21.153	0.000	0.000	4.609	0.000	6
3	K100030	44.000	72.600	1.000	27.600	22.000	37.200	7.700	0.000	6
4	K100040	44.000	72.600	1.000	27.600	22.000	37.200	8.621	1.000	6
5	K100050	32.000	40.608	14.000	18.824	1.000	1.234	2.494	0.000	6
6	K100060	56.000	46.260	6.000	11.085	8.000	10.233	0.858	0.000	6
7	K100070	68.000	56.370	6.000	4.012	1.000	4.012	3.189	0.000	6
8	K100080	40.000	51.043	13.000	34.802	5.000	14.230	6.734	0.000	6
9	K100090	54.000	99.000	34.000	53.100	0.000	0.000	12.404	0.000	6
10	K100100	37.000	65.400	17.000	29.400	0.000	0.000	2.074	0.000	6
11	K100110	37.000	65.400	17.000	29.400	0.000	0.000	2.062	0.000	6
12	K100120	61.000	68.123	34.000	33.880	8.000	8.334	6.031	0.000	6
13	K100130	73.000	63.352	31.000	26.803	1.000	3.046	12.062	0.000	6
14	K100140	40.000	41.447	23.000	16.133	16.000	14.209	8.364	4.000	6
15	K100150	54.000	96.000	9.000	34.800	14.000	22.800	25.436	2.000	6
16	K100160	15.000	41.342	17.000	23.841	6.000	13.189	3.675	0.000	6
17	K100170	62.000	100.200	17.000	31.500	5.000	9.000	2.547	1.000	6
18	K100180	57.000	41.918	32.000	21.827	6.000	11.988	10.687	0.000	6
19	K100190	64.000	58.782	12.000	28.749	2.000	3.533	9.348	0.000	6
20	K100200	50.000	84.600	15.000	27.900	21.000	42.000	6.155	1.000	6
21	K100210	50.000	84.600	15.000	27.900	21.000	42.000	6.355	0.000	6

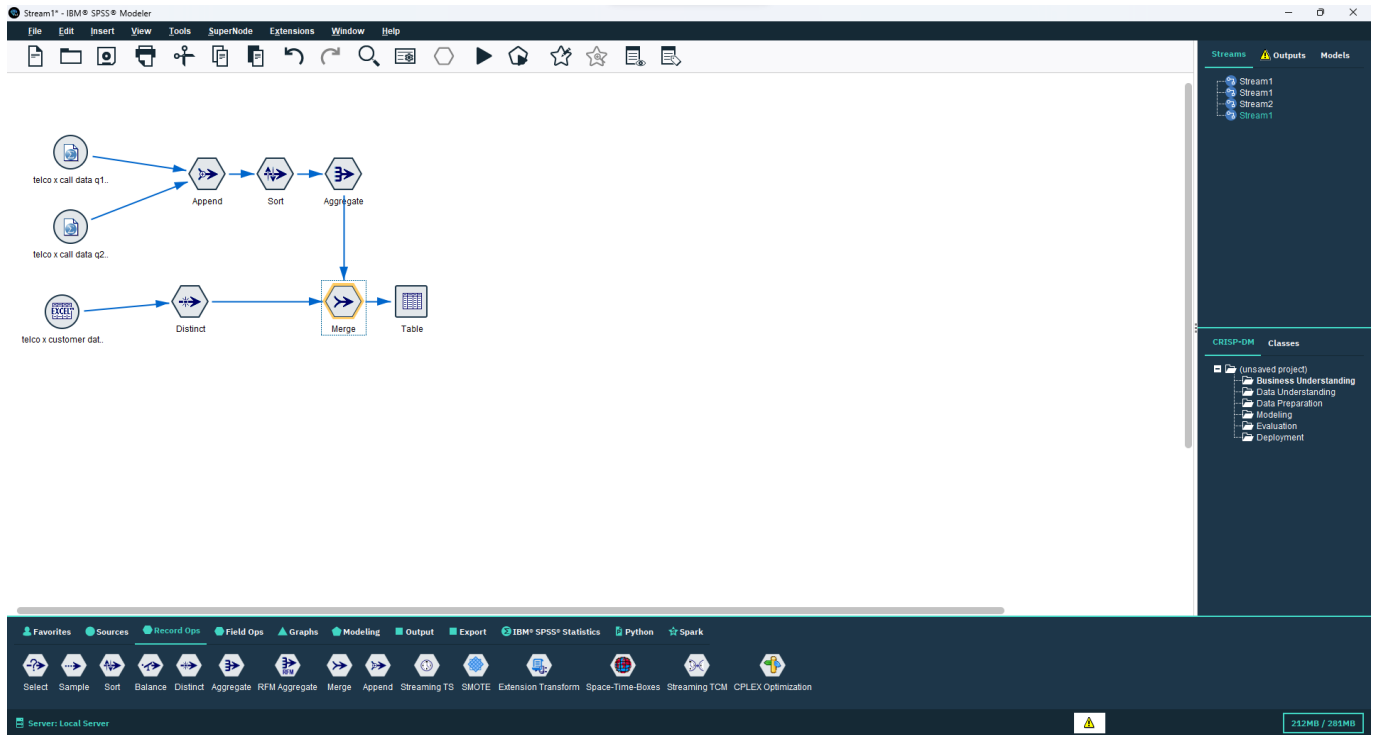
**Step 8:** Now we import a new data set telco x customer data.xlsx which is an excel file.



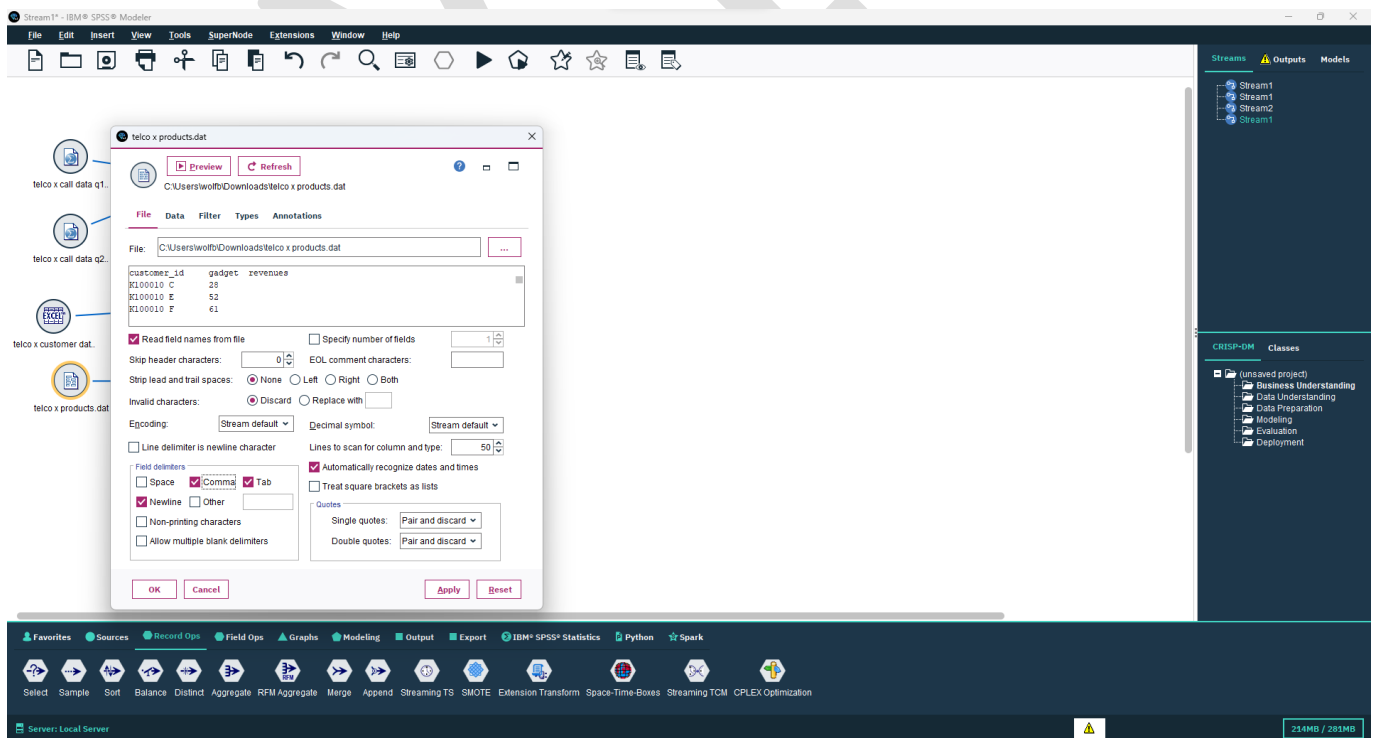
**Step 9:** Connect a Distinct node from Record ops and take all the fields of the data set as key fields in Distinct node by double clicking the Distinct node. And select Include only first record from each group.



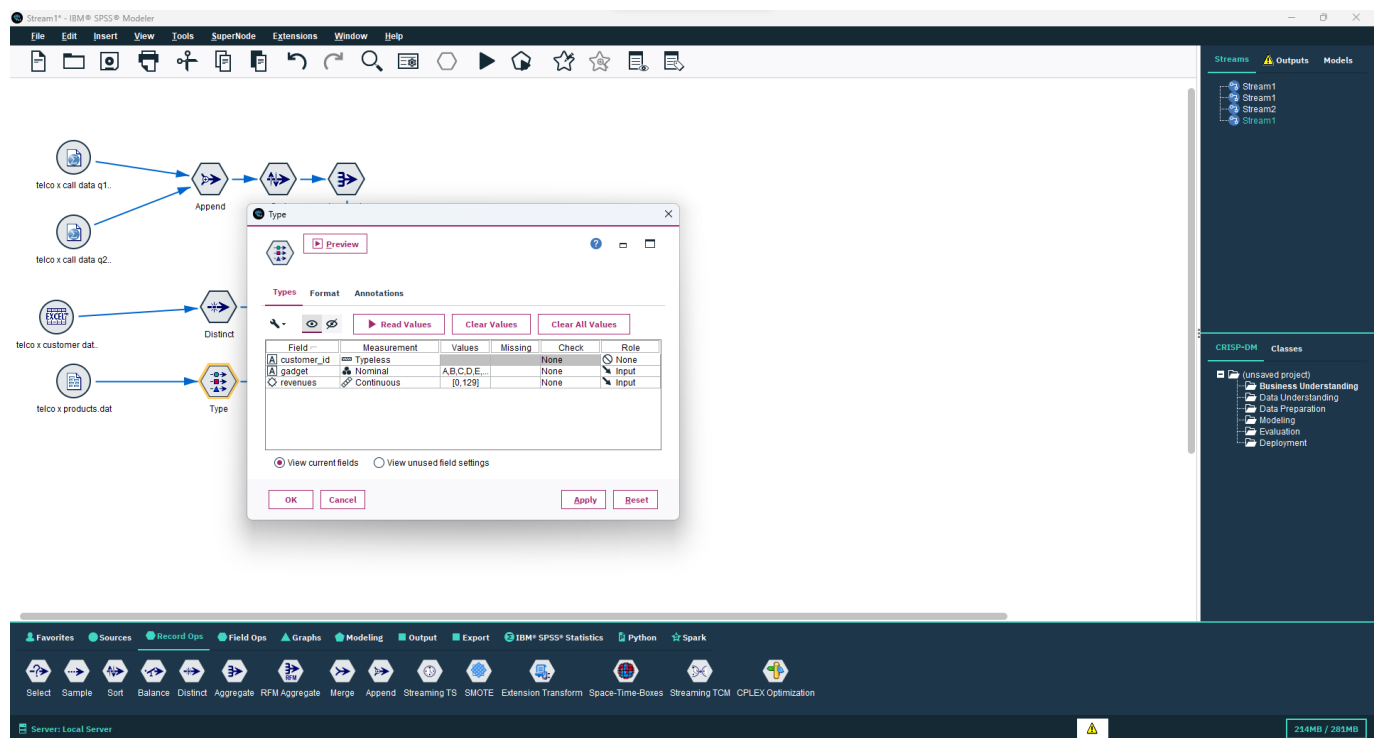
## Step 10: Connect the Distinct node to Merge node.



## Step 11: Take a var file node from Sources Category and import telco x products.dat.



**Step 12:** Connect Type node to the new var file and get the specific category of all values by clicking on Read Values button in Type node window.

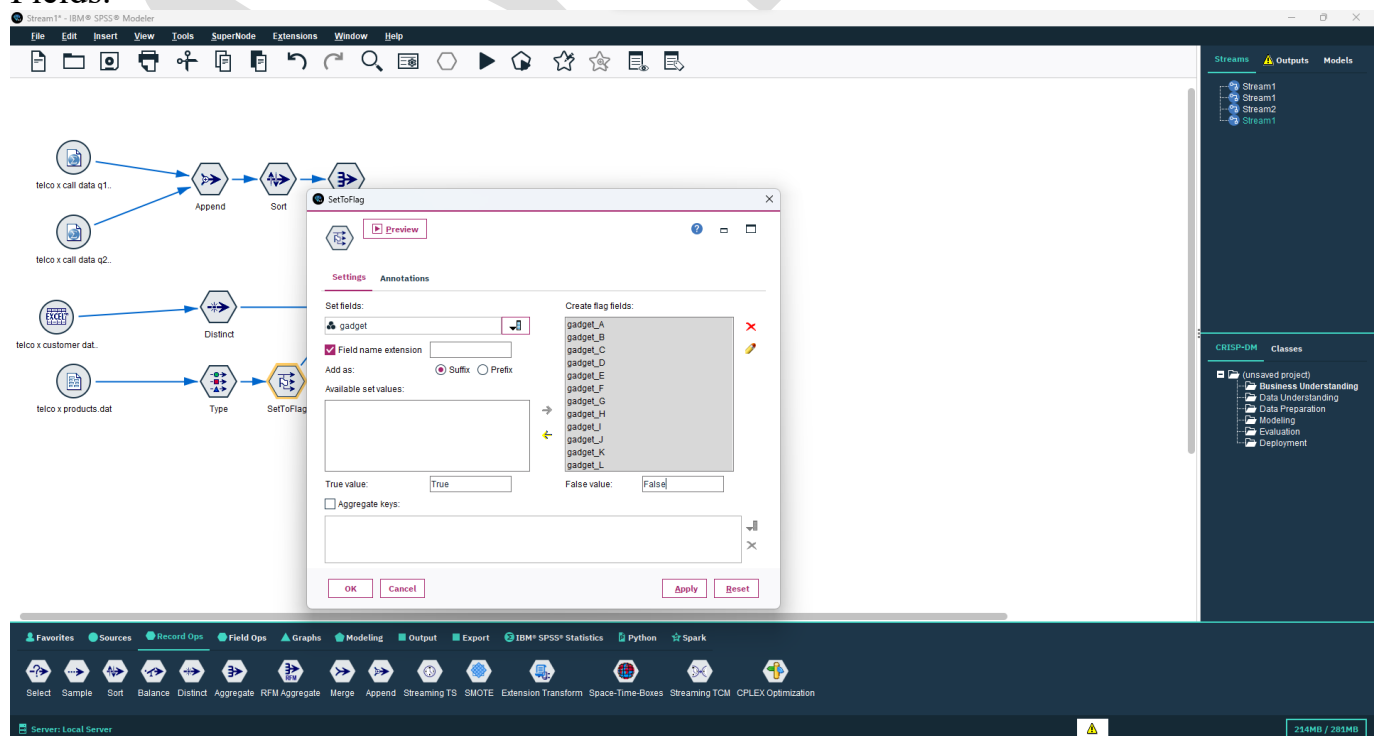


The screenshot shows the IBM SPSS Modeler interface with a workflow diagram on the left. The workflow includes nodes for 'telco x call data q1.', 'telco x call data q2.', 'Append', 'Distinct', 'Type', and 'telco x products.dat'. The 'Type' node is selected, and its configuration window is open. The 'Types' tab is active, showing a table of field types and measurements.

Field	Measurement	Values	Missing	Check	Role
customer_id	Typeless	A,B,C,D,E...	None	<input checked="" type="checkbox"/>	Input
gadget	Nominal	[0,129]	None	<input checked="" type="checkbox"/>	Input
revenues	Continuous				

Below the table, there are radio buttons for 'View current fields' (selected) and 'View unused field settings'. At the bottom, there are 'OK', 'Cancel', 'Apply', and 'Reset' buttons.

**Step 13:** Now we connect type node to Set to flag node and select gadget in Set fields section in Set to flag window and all the values should be selected and sent to Create Flag Fields.



The screenshot shows the IBM SPSS Modeler interface with a workflow diagram on the left. The workflow includes nodes for 'telco x call data q1.', 'telco x call data q2.', 'Append', 'Sort', 'Distinct', 'Type', and 'SetToFlag'. The 'SetToFlag' node is selected, and its configuration window is open. The 'Settings' tab is active, showing the 'Set fields' and 'Create flag fields' sections.

**Set fields:**

- ☒ gadget
- ☒ Field name extension

**Add as:** ☒ Suffix ☐ Prefix

**Available set values:**

**True value:** True **False value:** False

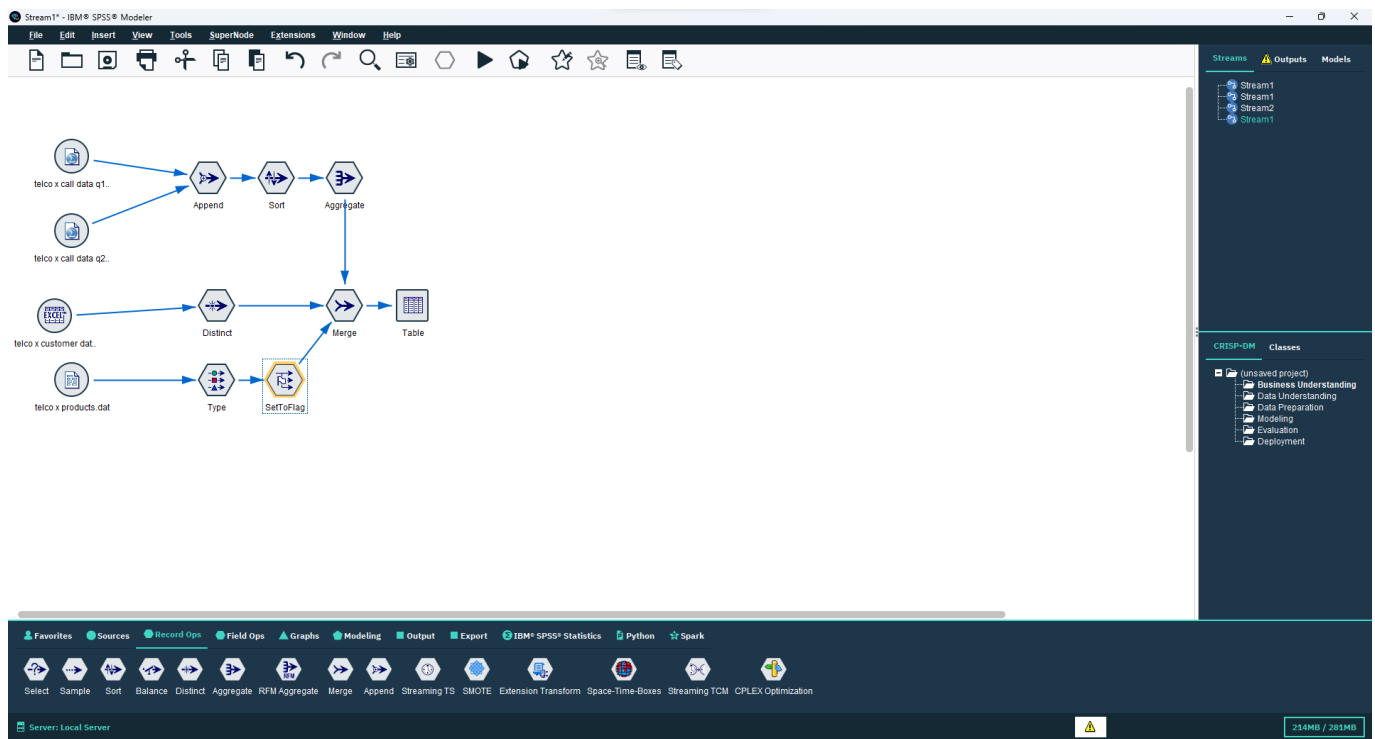
**Create flag fields:**

- gadget\_A
- gadget\_B
- gadget\_C
- gadget\_D
- gadget\_E
- gadget\_F
- gadget\_G
- gadget\_H
- gadget\_I
- gadget\_J
- gadget\_K
- gadget\_L

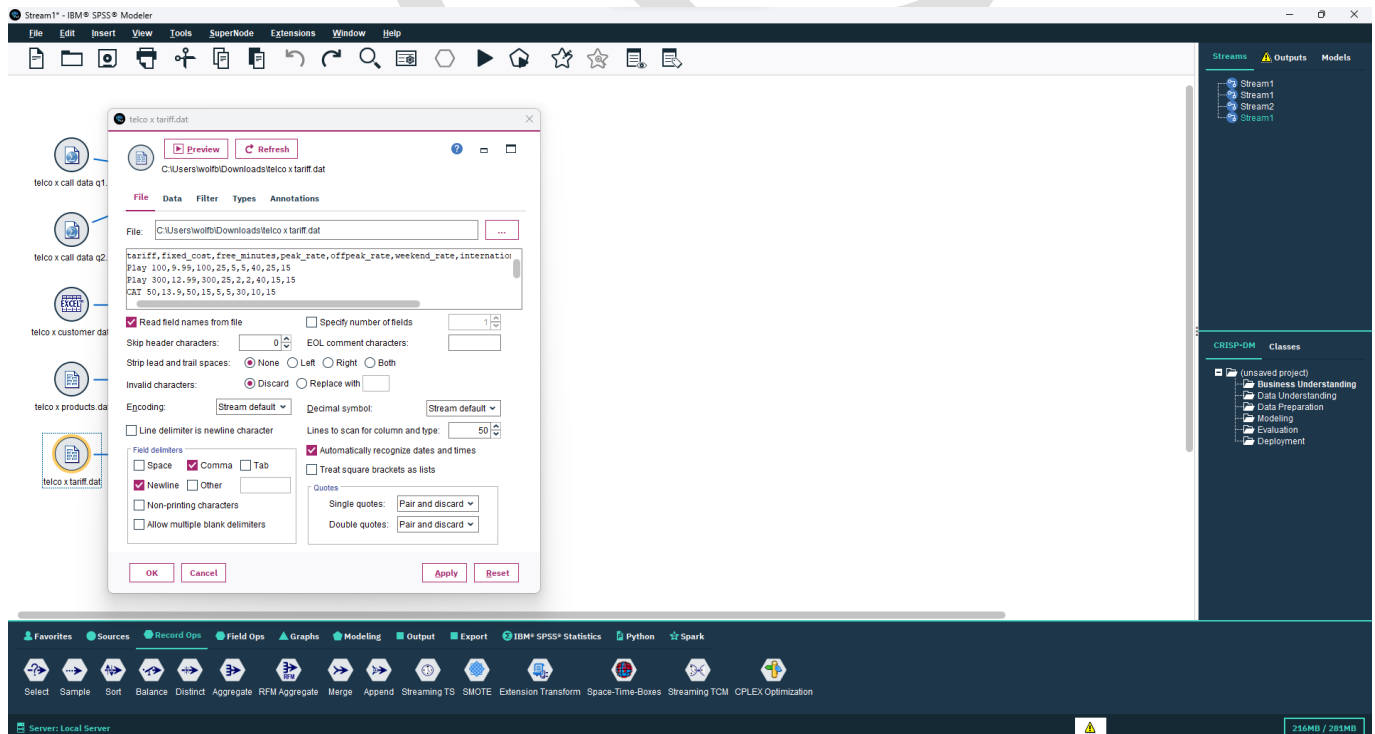
At the bottom, there are 'OK', 'Cancel', 'Apply', and 'Reset' buttons.

**Step 14:** Connect the Set to Flag node to Merge node.



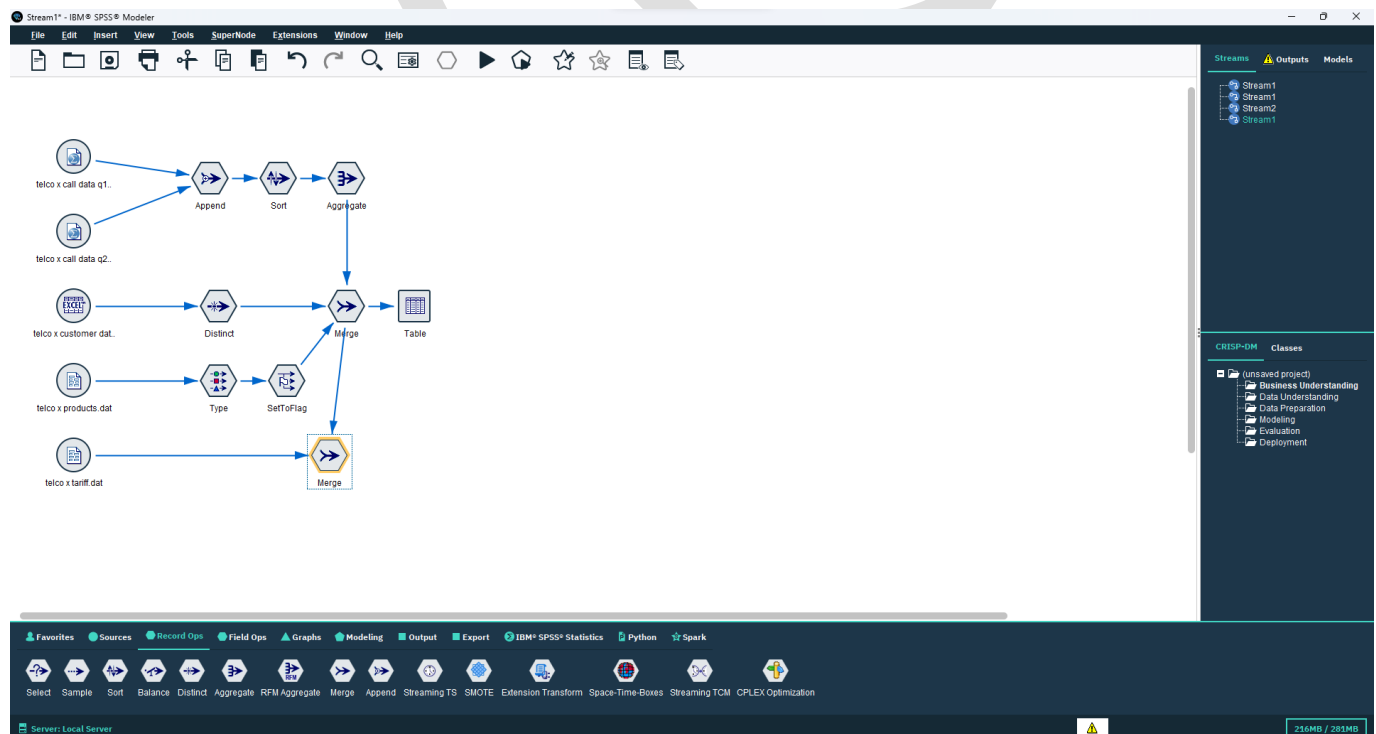
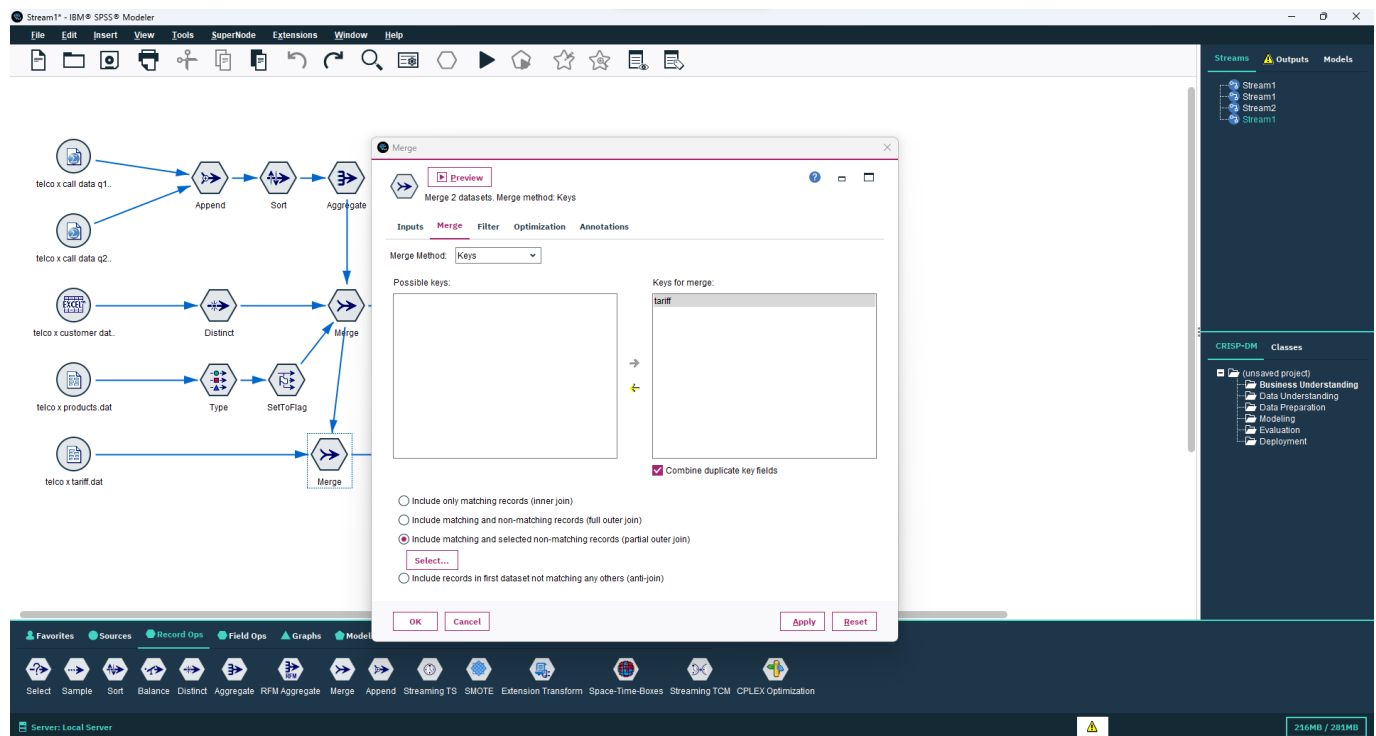


**Step 15:** Now we add another var file telco x tariff.dat



**Step 16:** Connect Merge node to the new var file and take tariff as key field and partial outer join in the Merge node window then connect the previous Merge Node to the new

one Which is connected to telco x tariff.dat.



**Step 17:** Then connect the sample node from the Record ops to the Merge node connected to telco x tariff.dat.

Sample node is used to take a part of data from a data set to test the data set.

Open the Sample node window by double clicking on it and now select 1 in n rule now we choose a integer in place of n.

If we choose 3 in place of n the result will show the first record and then the third record skipping the record on the second place.

The screenshot displays the IBM SPSS Modeler interface. On the left, a data flow diagram shows five input data sets: 'telco x call data q1.', 'telco x call data q2.', 'telco x customer dat.', 'telco x products dat.', and 'telco x tariff dat.'. These are processed through a series of nodes: 'Append', 'Sort', 'Aggregate', 'Distinct', 'Type', 'SetToFlag', and 'Merge'. The final output is a 'Table' node. A 'Sample' node is connected to the 'Table' node. The 'Sample' node configuration window is open, showing the '1-in-3' rule. The 'Sample method' is set to 'Simple', and the 'Sample' is set to '1-in-n' with 'n' set to 3. The 'Mode' is set to 'include sample'. The 'Maximum sample size' is set to 10000. The 'Repeatable partition assignment' checkbox is unchecked. The 'Seed' is set to 200735. The 'Generate' button is visible.

**Step 18:** Connect Table node to Sample node to view the final result which will show sample data of the four joint data sets.

Table (43 fields, 50,463 records)																										
File Edit Generate																										
Table Annotations																										
	tariff	fixed_cost	free_minutes	peak_rate	offpeak_rate	weekend_rate	international_rate	voicemail	S	customer_id	gender	age	postalcode	region	connect_date	end_date	dropped_calls	paymethod	handset	churn	peak_calls_Sum	peak_mins_Sum	offpeak_calls_Sum	Sum		
1	CAT 100	17.500	100	15	5	5	30	10	15	15K10780	Male	2...	4548.000	2.000	2004-08-25	Gnuli1	1.000	Pre Pay	S80	Active	13.000	664.200	72.00			
2	CAT 100	17.500	100	15	5	5	30	10	15	15K10770	Male	3...	1112.000	1.000	2003-09-25	Gnuli1	6.000	Pre Pay	S50	Active	13.000	666.400	124.00			
3	CAT 100	17.500	100	15	5	5	30	10	15	15K10770	Male	3...	1112.000	1.000	2003-09-25	Gnuli1	6.000	Pre Pay	S50	Active	13.000	666.400	124.00			
4	CAT 100	17.500	100	15	5	5	30	10	15	15K10760	Female	4...	8287.000	4.000	2003-01-22	2004-03-19	2.000	Pre Pay	ASAD90	Churned	8.000	435.600	157.00			
5	CAT 100	17.500	100	15	5	5	30	10	15	15K10760	Female	4...	8287.000	4.000	2003-01-22	2004-03-19	2.000	Pre Pay	ASAD90	Churned	8.000	435.600	157.00			
6	CAT 100	17.500	100	15	5	5	30	10	15	15K10750	Male	3...	8980.000	4.000	2003-08-03	Gnuli1	2.000	Pre Pay	S80	Active	2.000	826.200	4.00			
7	CAT 100	17.500	100	15	5	5	30	10	15	15K10740	Male	3...	3914.000	2.000	2004-05-27	Gnuli1	1.000	Pre Pay	S50	Active	1.000	461.400	2.00			
8	CAT 100	17.500	100	15	5	5	30	10	15	15K10740	Male	3...	3914.000	2.000	2004-05-27	Gnuli1	1.000	Pre Pay	S50	Active	1.000	461.400	2.00			
9	CAT 100	17.500	100	15	5	5	30	10	15	15K10730	Female	4...	6245.000	3.000	2003-04-09	2004-10-04	2.000	Pre Pay	ASAD90	Churned	9.000	464.400	85.00			
10	CAT 100	17.500	100	15	5	5	30	10	15	15K10720	Female	2...	4191.000	2.000	2005-06-27	Gnuli1	2.000	Pre Pay	S50	Active	2.000	473.400	39.00			
11	CAT 100	17.500	100	15	5	5	30	10	15	15K10720	Female	2...	4191.000	2.000	2005-06-27	Gnuli1	2.000	Pre Pay	S50	Active	2.000	473.400	39.00			
12	CAT 100	17.500	100	15	5	5	30	10	15	15K10720	Female	2...	4191.000	2.000	2005-06-27	Gnuli1	2.000	Pre Pay	S50	Active	2.000	473.400	39.00			
13	CAT 100	17.500	100	15	5	5	30	10	15	15K10710	Male	3...	2167.000	1.000	2004-04-20	Gnuli1	6.000	Pre Pay	ASAD170	Active	2.000	417.600	147.00			
14	CAT 100	17.500	100	15	5	5	30	10	15	15K10700	Male	4...	9763.000	4.000	2005-05-19	Gnuli1	9.000	Pre Pay	S50	Active	3.000	719.400	90.00			
15	CAT 100	17.500	100	15	5	5	30	10	15	15K10690	Male	4...	9919.000	4.000	2004-06-01	Gnuli1	2.000	Pre Pay	S80	Active	3.000	644.400	59.00			
16	CAT 100	17.500	100	15	5	5	30	10	15	15K10690	Male	4...	9919.000	4.000	2004-06-01	Gnuli1	2.000	Pre Pay	S80	Active	3.000	644.400	59.00			
17	CAT 100	17.500	100	15	5	5	30	10	15	15K10680	Female	4...	5068.000	3.000	2005-12-14	2008-05-21	1.000	Pre Pay	ASAD90	Churned	8.000	522.000	63.00			
18	CAT 100	17.500	100	15	5	5	30	10	15	15K10680	Female	4...	5068.000	3.000	2005-12-14	2008-05-21	1.000	Pre Pay	ASAD90	Churned	8.000	522.000	63.00			
19	CAT 100	17.500	100	15	5	5	30	10	15	15K10680	Female	4...	5068.000	3.000	2005-12-14	2008-05-21	1.000	Pre Pay	ASAD90	Churned	8.000	522.000	63.00			
20	CAT 100	17.500	100	15	5	5	30	10	15	15K10670	Female	5...	1054.000	1.000	2004-08-26	2007-08-25	1.000	Pre Pay	ASAD90	Churned	10.000	459.600	79.00			
21	CAT 100	17.500	100	15	5	5	30	10	15	15K10670	Female	5...	1054.000	1.000	2004-08-26	2007-08-25	1.000	Pre Pay	ASAD90	Churned	10.000	459.600	79.00			
22	CAT 100	17.500	100	15	5	5	30	10	15	15K10660	Female	3...	8800.000	4.000	2004-01-03	2006-01-21	11.000	Pre Pay	ASAD90	Churned	3.000	637.200	29.00			
23	CAT 100	17.500	100	15	5	5	30	10	15	15K10650	Female	5...	3225.000	2.000	2003-01-01	Gnuli1	1.000	Pre Pay	ASAD170	Active	2.000	436.200	163.00			
24	CAT 100	17.500	100	15	5	5	30	10	15	15K10650	Female	5...	3225.000	2.000	2003-01-01	Gnuli1	1.000	Pre Pay	ASAD170	Active	2.000	436.200	163.00			
25	CAT 100	17.500	100	15	5	5	30	10	15	15K10640	Male	3...	9303.000	4.000	2005-10-10	Gnuli1	8.000	Pre Pay	ASAD170	Active	3.000	533.400	22.00			
26	CAT 100	17.500	100	15	5	5	30	10	15	15K10640	Male	3...	9303.000	4.000	2005-10-10	Gnuli1	8.000	Pre Pay	ASAD170	Active	3.000	533.400	22.00			
27	CAT 100	17.500	100	15	5	5	30	10	15	15K10630	Female	3...	9087.000	4.000	2003-08-09	Gnuli1	2.000	Pre Pay	S80	Active	12.000	579.600	20.00			
28	CAT 100	17.500	100	15	5	5	30	10	15	15K10620	Female	3...	4644.000	2.000	2006-12-26	Gnuli1	1.000	Pre Pay	ASAD170	Active	4.000	603.000	34.00			
29	CAT 100	17.500	100	15	5	5	30	10	15	15K10610	Female	2...	2218.000	1.000	2005-09-06	2009-09-13	0.000	Pre Pay	ASAD90	Churned	9.000	549.000	19.00			
30	CAT 100	17.500	100	15	5	5	30	10	15	15K10610	Female	2...	2218.000	1.000	2005-09-06	2009-09-13	0.000	Pre Pay	ASAD90	Churned	9.000	549.000	19.00			
31	CAT 100	17.500	100	15	5	5	30	10	15	15K10610	Female	2...	2218.000	1.000	2005-09-06	2009-09-13	0.000	Pre Pay	ASAD90	Churned	9.000	549.000	19.00			
32	CAT 100	17.500	100	15	5	5	30	10	15	15K10600	Male	3...	4097.000	2.000	2003-06-06	2004-04-12	2.000	Pre Pay	ASAD90	Churned	12.000	535.200	55.00			
33	CAT 100	17.500	100	15	5	5	30	10	15	15K10600	Male	3...	4097.000	2.000	2003-06-06	2004-04-12	2.000	Pre Pay	ASAD90	Churned	12.000	535.200	55.00			
34	CAT 100	17.500	100	15	5	5	30	10	15	15K10590	Male	5...	5627.000	3.000	2003-01-15	2004-11-22	2.000	Pre Pay	ASAD90	Churned	14.000	652.800	19.00			
35	CAT 100	17.500	100	15	5	5	30	10	15	15K10580	Male	...	2247.000	1.000	2005-10-15	2009-07-14	4.000	Pre Pay	S80	Churned	12.000	676.600	78.00			
36	CAT 100	17.500	100	15	5	5	30	10	15	15K10580	Male	...	2247.000	1.000	2005-10-15	2009-07-14	4.000	Pre Pay	S80	Churned	12.000	676.600	78.00			
37	CAT 100	17.500	100	15	5	5	30	10	15	15K10570	Male	4...	7611.000	4.000	2005-06-11	2009-09-16	2.000	Pre Pay	ASAD90	Churned	11.000	540.000	99.00			
38	CAT 100	17.500	100	15	5	5	30	10	15	15K10560	Female	4...	1580.000	1.000	2005-08-22	Gnuli1	1.000	Pre Pay	S50	Active	5.000	506.400	38.00			
39	CAT 100	17.500	100	15	5	5	30	10	15	15K10550	Male	4...	5675.000	3.000	2005-12-18	2007-01-22	11.000	Pre Pay	ASAD90	Churned	7.000	557.400	39.00			
40	CAT 100	17.500	100	15	5	5	30	10	15	15K10550	Male	4...	5675.000	3.000	2005-12-18	2007-01-22	11.000	Pre Pay	ASAD90	Churned	7.000	557.400	39.00			
41	CAT 100	17.500	100	15	5	5	30	10	15	15K10540	Female	2...	6053.000	3.000	2005-04-22	2009-07-01	3.000	Pre Pay	S80	Churned	12.000	560.400	44.00			
42	CAT 100	17.500	100	15	5	5	30	10	15	15K10540	Female	2...	6053.000	3.000	2005-04-22	2009-07-01	3.000	Pre Pay	S80	Churned	12.000	560.400	44.00			
43	CAT 100	17.500	100	15	5	5	30	10	15	15K10530	Male	5...	2015.000	1.000	2003-04-15	Gnuli1	2.000	Pre Pay	S80	Active	11.000	672.000	0.00			
44	CAT 100	17.500	100	15	5	5	30	10	15	15K10530	Male	5...	2015.000	1.000	2003-04-15	Gnuli1	2.000	Pre Pay	S80	Active	11.000	672.000	0.00			
45	CAT 100	17.500	100	15	5	5	30	10	15	15K10520	Female	2...	4795.000	2.000	2003-05-19	Gnuli1	0.000	Pre Pay	ASAD170	Active	8.000	676.800	178.00			
46	CAT 100	17.500	100	15	5	5	30	10	15	15K10510	Male	4...	8705.000	4.000	2003-07-18	Gnuli1	10.000	Pre Pay	S80	Active	8.000	765.600	78.00			
47	CAT 100	17.500	100	15	5	5	30	10	15	15K10500	Male	2...	5666.000	3.000	2003-01-19	2007-02-14	11.000	Pre Pay	ASAD90	Churned	189.000	729.000	5.00			
48	CAT 100	17.500	100	15	5	5	30	10	15	15K10490	Male	5...	4255.000	2.000	2006-06-25	Gnuli1	1.000	Pre Pay	S50	Active	206.000	630.000	106.00			
49	CAT 100	17.500	100	15	5	5	30	10	15	15K10490	Male	5...	4255.000	2.000	2006-06-25	Gnuli1	1.000	Pre Pay	S50	Active	206.000	630.000	106.00			
50	CAT 100	17.500	100	15	5	5	30	10	15	15K10480	Male	3...	8861.000	4.000	2003-11-27	Gnuli1	1.000	Pre Pay	S80	Active	103.000	400.200	158.00			
51	CAT 100	17.500	100	15	5	5	30	10	15	15K10480	Male	3...	8861.000	4.000	2003-11-27	Gnuli1	1.000	Pre Pay	S80	Active	103.000	400.200	158.00			
52	CAT 100	17.500	100	15	5	5	30	10	15	15K10480	Male	3...	8861.000	4.000	2003-11-27	Gnuli1	1.000	Pre Pay	S80	Active	103.000	400.200	158.00			
53	CAT 100	17.500	100	15	5	5	30	10	15	15K10470	Female	3...	4931.000	2.000	2006-09-07	Gnuli1	7.000	Pre Pay	S80	Active	155.000	400.200	43.00			

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