

Show the process of using nodes in SPSS to obtain preliminary data for a telecom organization.

Using the Excel file node and importing dataset and Analyzing dataset.

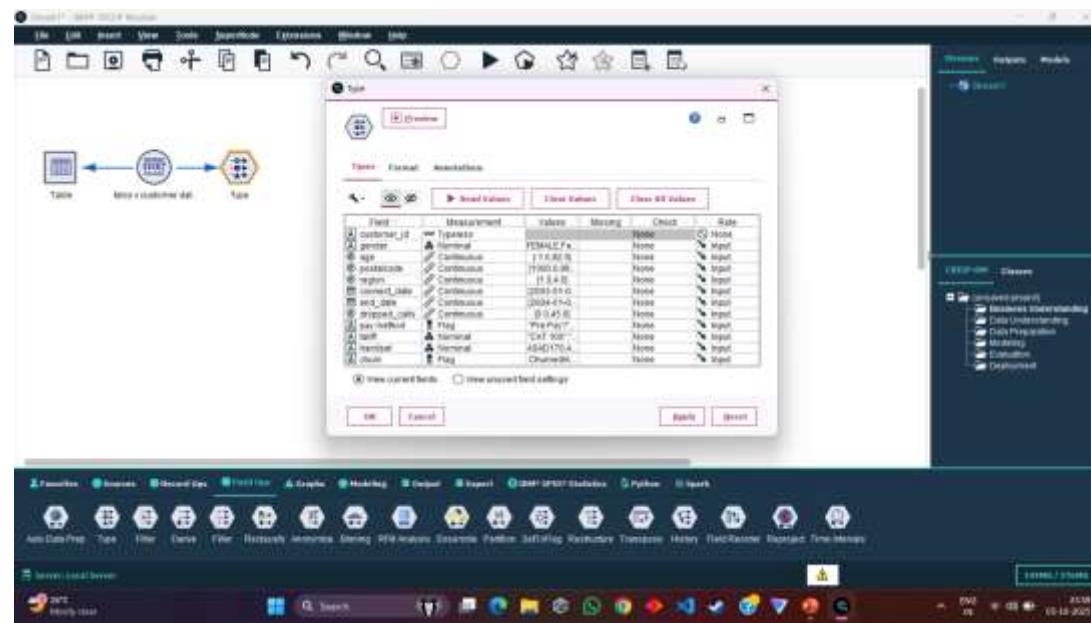
- ❖ Step1 , we will take the excel file node from the source palette and import it with the data.
- ❖ Connect it with table to Analyze dataset

The screenshot shows the KNIME Analytics Platform interface. A central window displays a table titled "Table (127 Rows, 11791 Records)" with columns including "Customer_ID", "Gender", "Age", "Subscription_Level", "Region", "Contract_Type", "Card_Rate", "Dropoff_Cars", "Type_Method", "Last_Mile", "NumberofChurn", and "Churn". The table contains 127 rows of data. To the left of the table is a node icon labeled "Table" with an arrow pointing to it, and the text "Import a customer data". On the right side of the table, there is a "Table" tab and a "Annotations" tab. The bottom of the screen shows the KNIME toolbar with various icons for database, file, analysis, modeling, and visualization, along with a search bar and system status indicators.

Customer_ID	Gender	Age	Subscription_Level	Region	Contract_Type	Card_Rate	Dropoff_Cars	Type_Method	Last_Mile	NumberofChurn	Churn
00100000	Male	41.1	Gold	2500	3-05-2006-07-18	2000-08-10	1,000	Pay	CAT 10 300110	Churned	
00100001	Male	21.1	Gold	2121.000	2-05-2008-09-18	2007-02-07	1,000	Pay	CAT 10 300110	Churned	
00100002	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100003	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100004	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100005	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100006	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100007	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100008	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100009	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100010	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100011	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100012	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100013	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100014	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100015	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100016	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100017	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100018	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
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00100078	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay	CAT 10 300110	Churned	
00100079	Male	31.1	Gold	3170.000	2-05-2010-01-12	2008-09-11	2,000	Pay</td			

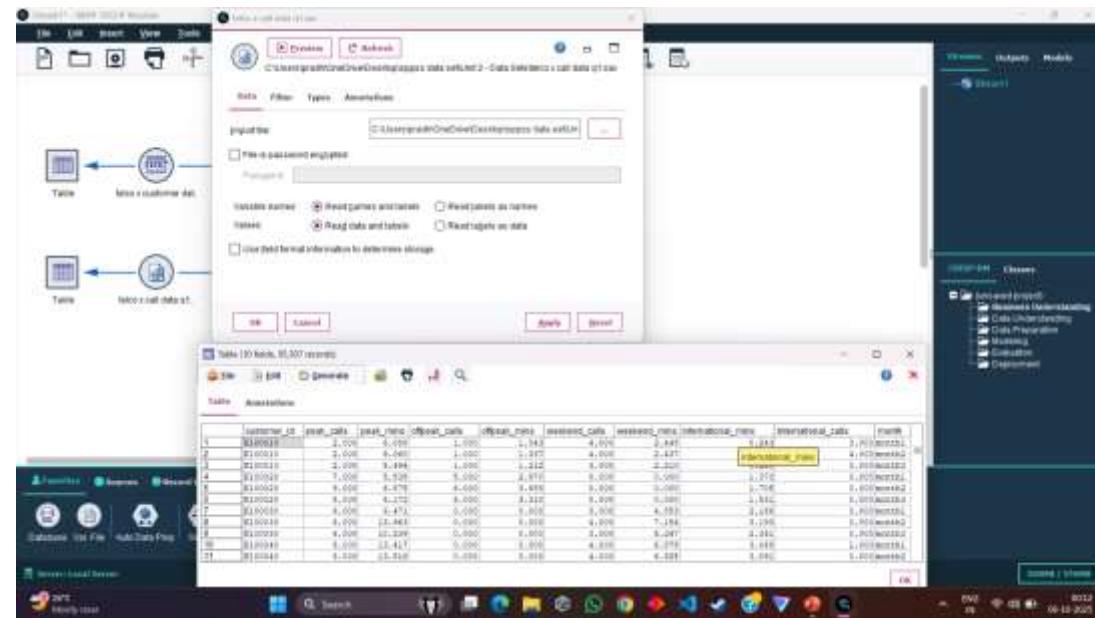
Using the Type node and reading the datatype

- We will now take type node from the field operations and connect it with the excel file node
- In type node we can use features(read values, clear values, clear all values)
- We will be using read values by clicking on it we will be knowing the datatype of the columns in the dataset whether it is typeless, ordinal, nominal, flag, continuous values in the measurement section
- By default it is set to categorical and continuous



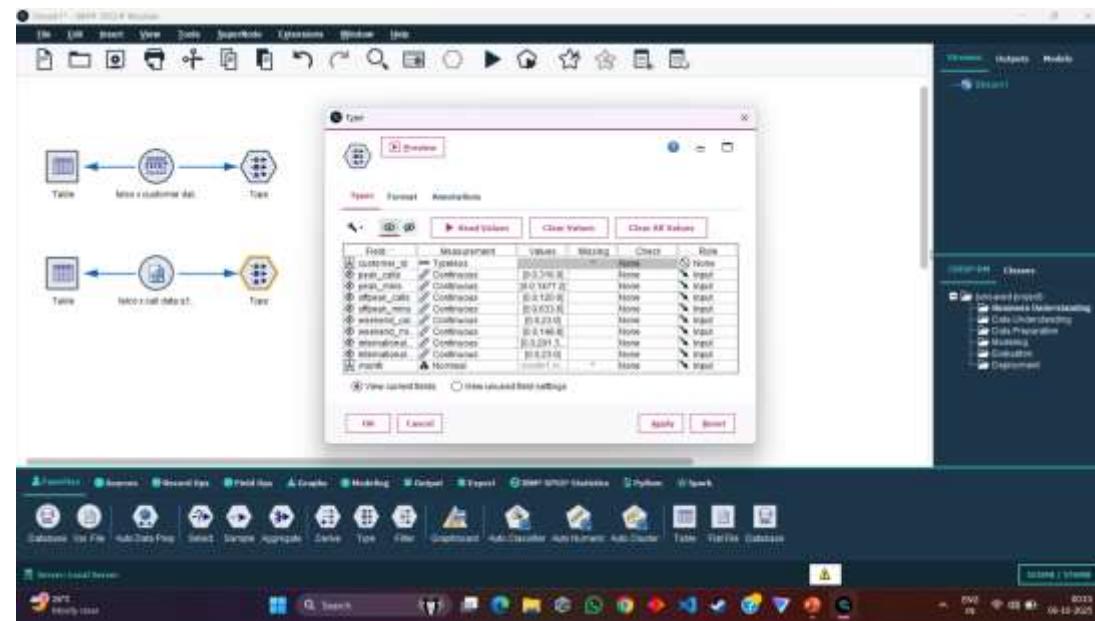
Using the Statistical file node and analyze dataset

- Now we will take statistical file node from the source palette and import it with the data(telco x call data q1)
- Further connect it with the table to analyze the output on the table



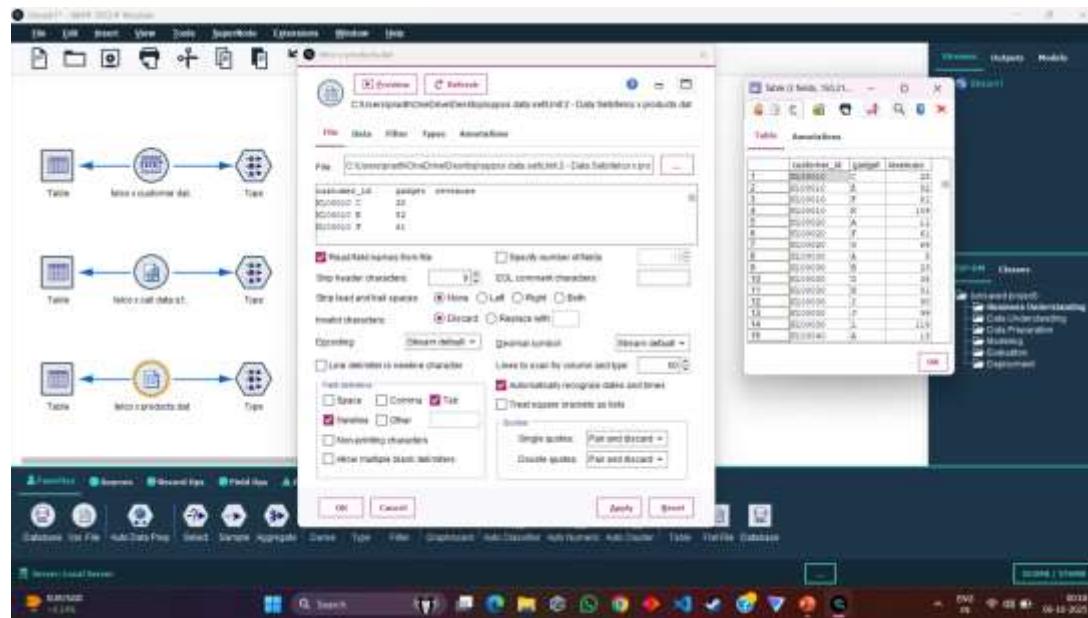
Using the Statistical file node with the Type node

- Further we also connect it with the type node to get the clear idea about the datatype in the dataset and analyze it



Using the Var.file node and analyzing the dataset

- ❖ Now we will use the Var.file node from the source palette and import it with the data(telco x product data) and by setting field delimiter to “Tab”
 - ❖ Further connecting it with the Var.file node and analyzing the output



Using the Var.file node with Type node

- We will do the same as we did in both the above nodes, we connect the Var.file node with the type node and click on the read values and know the data type of the data set

