Data Mining – LAB 3

Clustering – K-Means

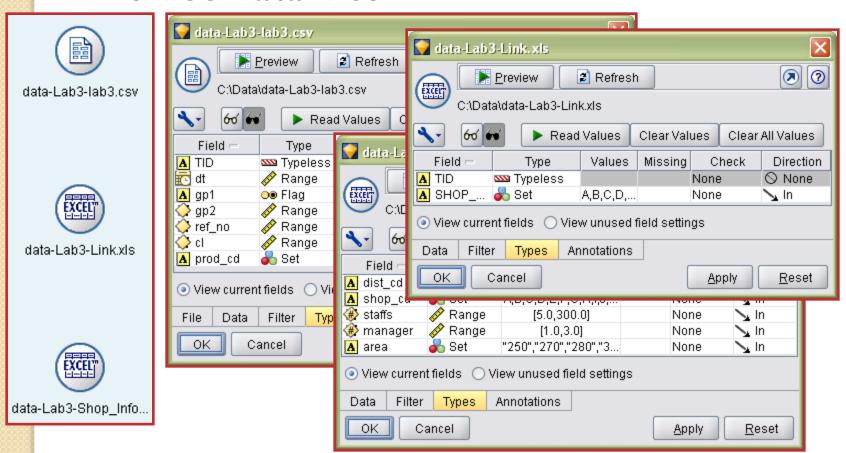
Data File

- In Virtualbox image:
 - c:\data\data-Lab3-lab3.csv
 - c:\data\data-Lab3-Link.xls
 - c:\data\data-Lab3-Shop_Info.xls
- Download from:
 - www.comp.polyu.edu.hk/~csamak/data/Lab3.zip
 - www.comp.polyu.edu.hk/~csamak/data/data-Lab3.mdb

For data-Lab3.mdb, it does not work probably in the **VM**. So, do the lab with the "Lab3.zip" if you use the virtual machine.

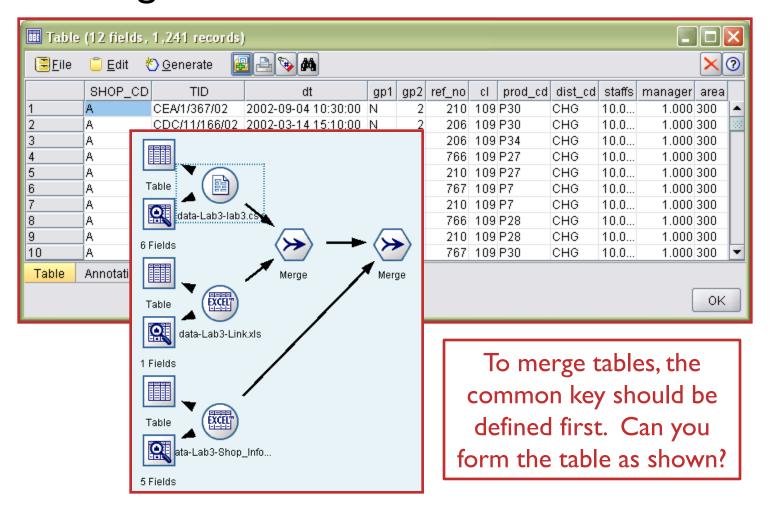
Import Data from MS Excel File

 Use 3 "Var. File" nodes to import the three data files



Import Data

Merge the three tables into ONE

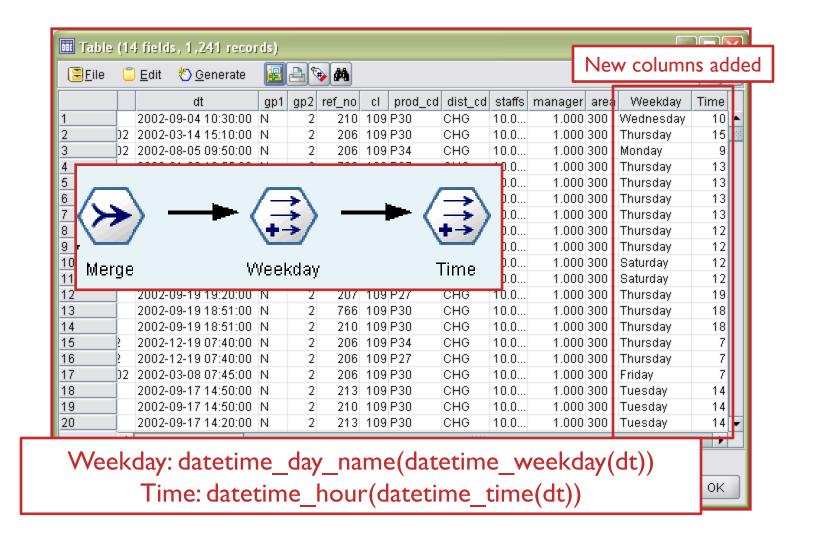


Data Understanding/Cleaning

• What are the errors in the data set?

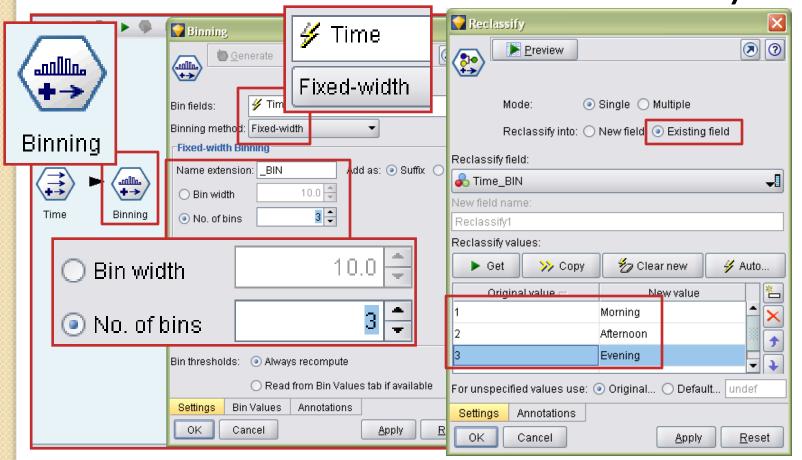
Suggest methods to correct them.

Data Transformation



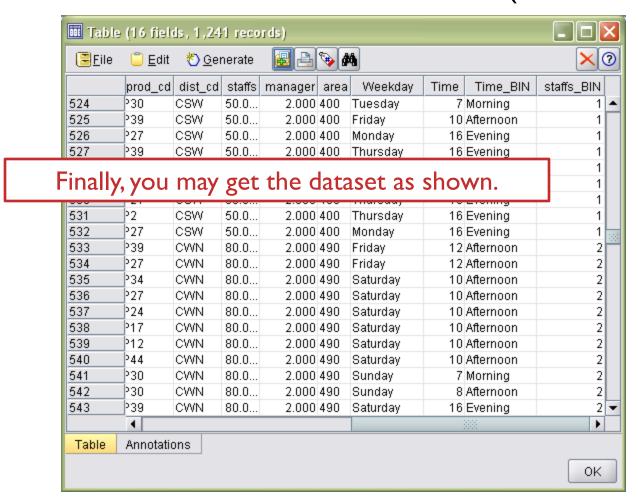
Data Transformation – Discretization

 Divide "Time" into 3 intervals (binning) and rename the values with node, Reclassify



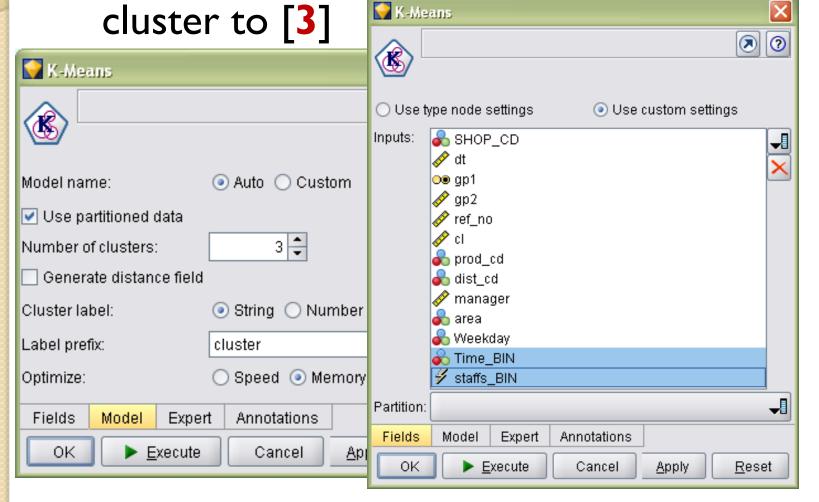
Data Transformation – Discretization

Divide "staffs" into 5 intervals (Fixed-width)



Clustering – Divide "Customers into 3 Clusters

Add node, [K-Means] and set number of



Result

