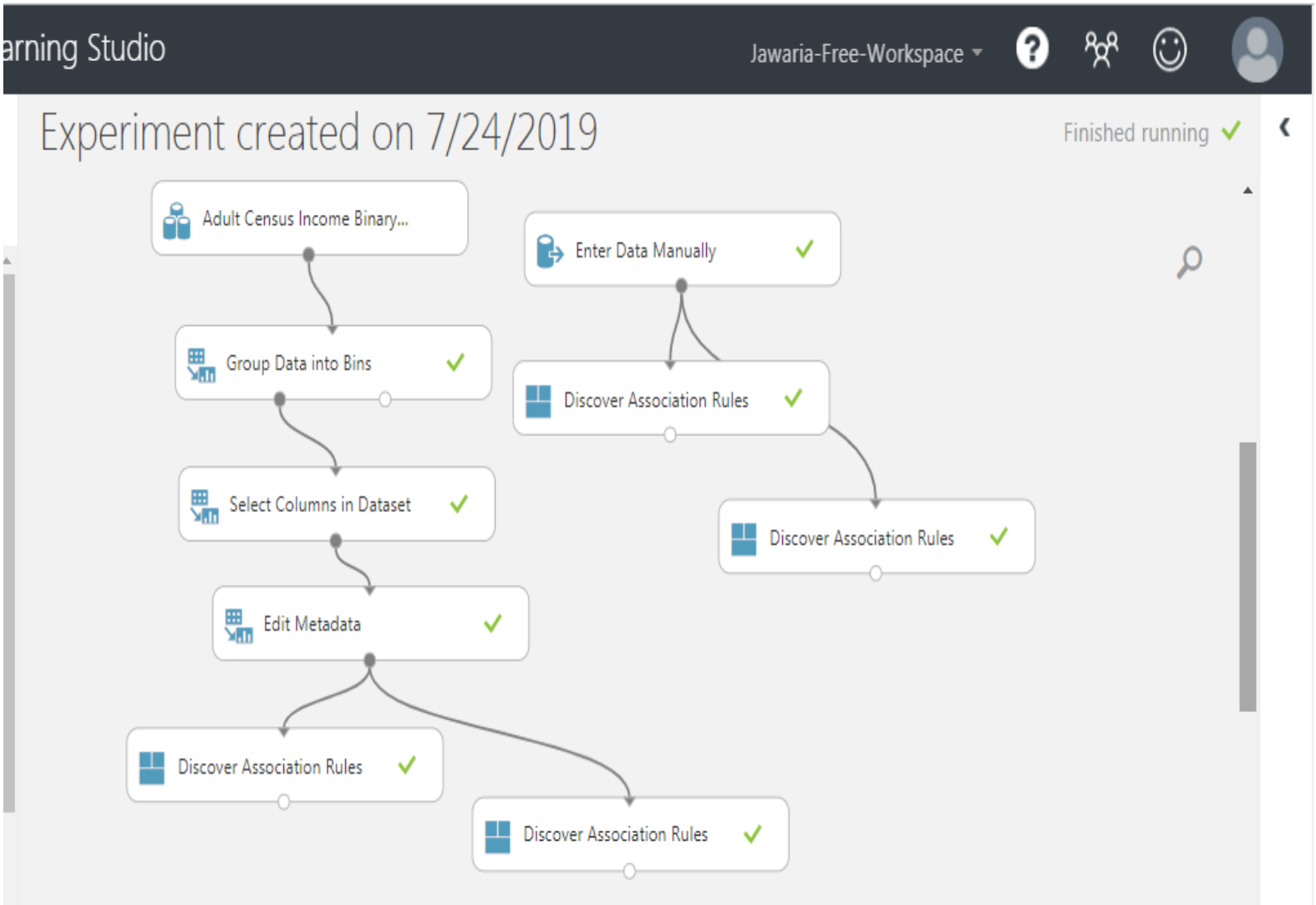
Department of Software Engineering
Mehran University of Engineering and Technology, Jamshoro

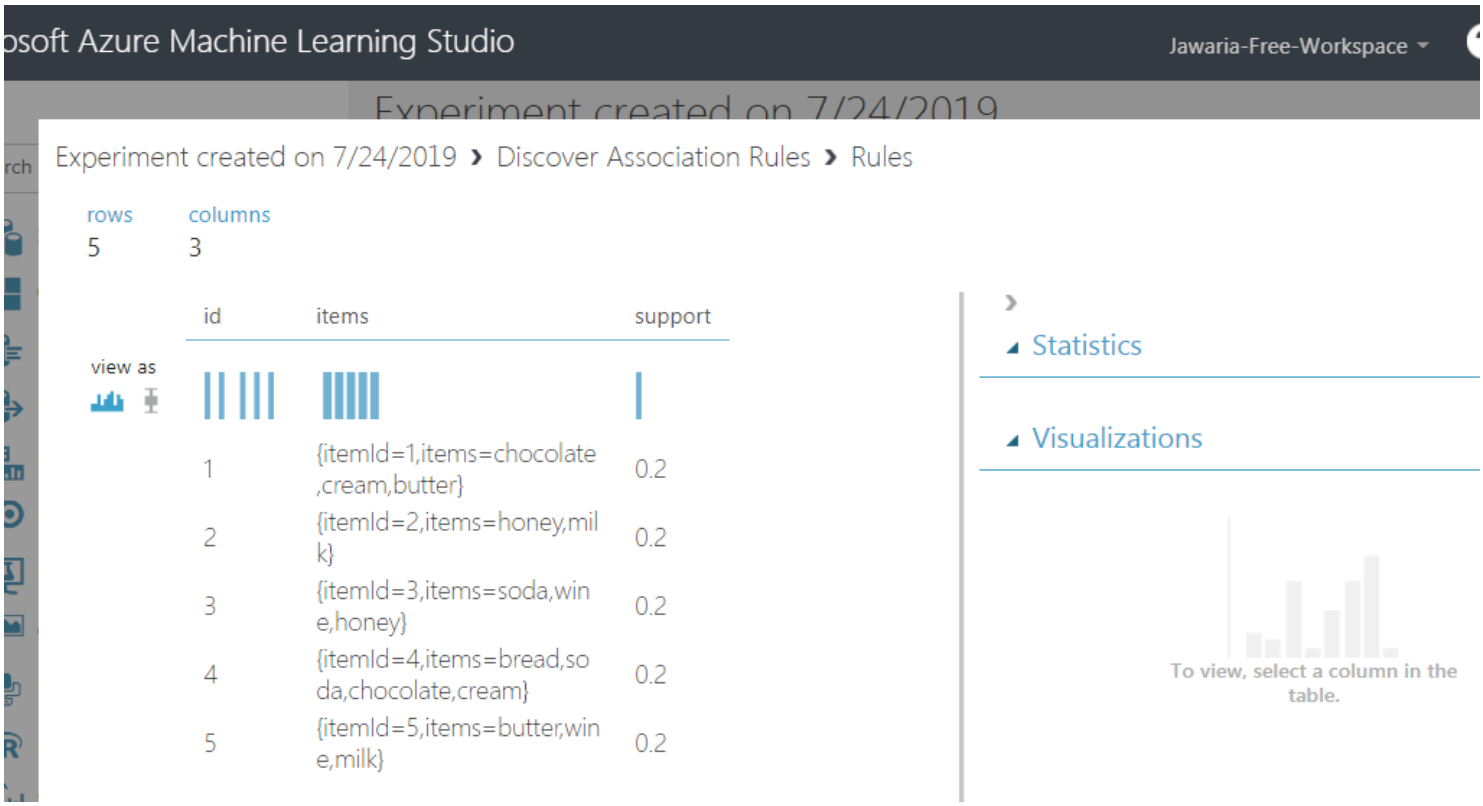
Course: SWE324 - Data Warehousing and Data Mining			
Instructor	Rabeea Jaffari	**Practical/Lab No.**	10
Date	2nd Aug 2018	**CLOs**	CLO-4: P3 & P4
Signature		**Assessment Score**	1 Marks

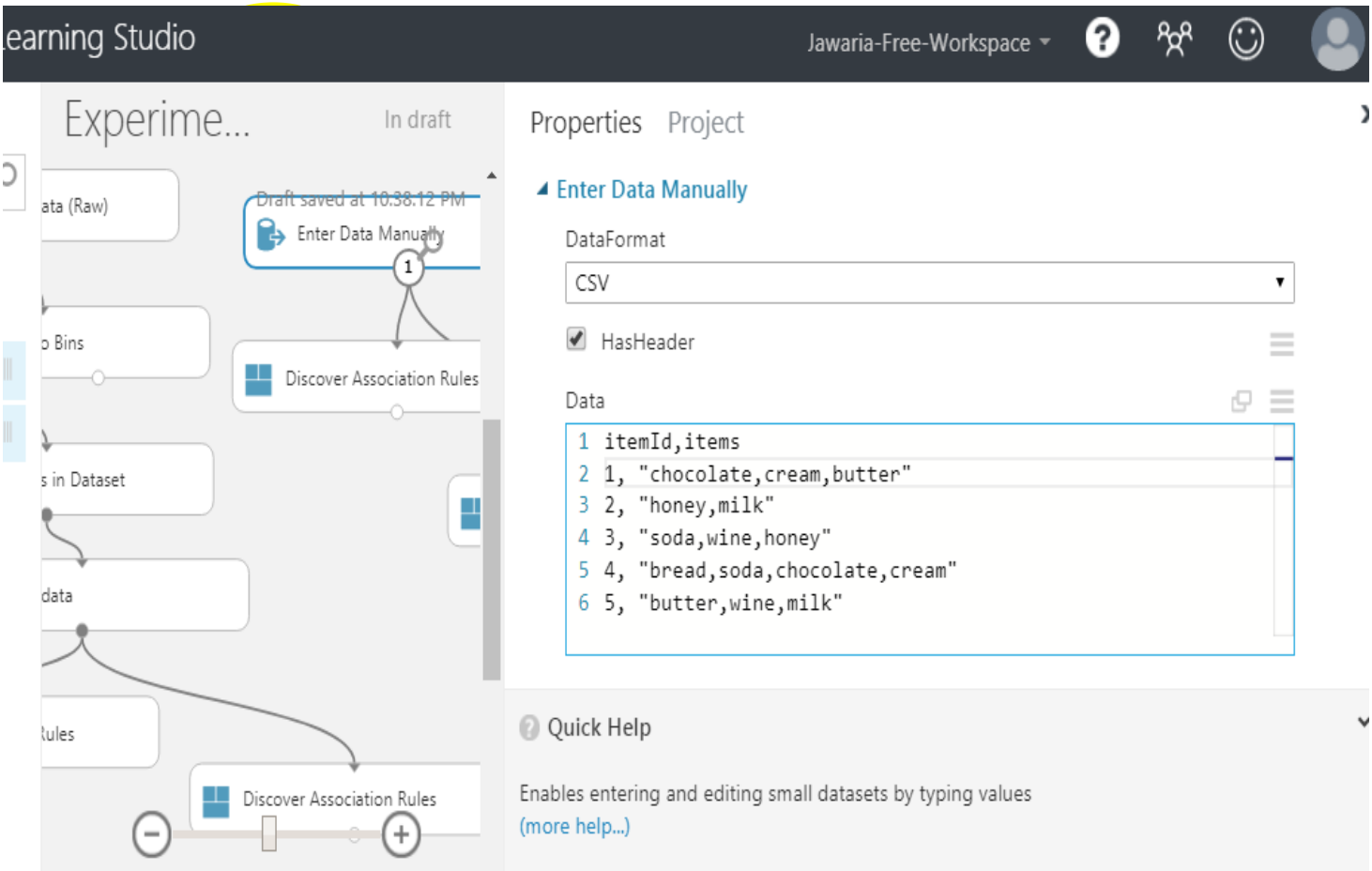
Topic	Data mining technique: association rule analysis
Objectives	- To learn Data mining using Microsoft Azure Machine Learning Studio. - To perform association rule analysis using Apriori algorithm in Microsoft Azure ML Studio.

Lab Discussion: Theoretical concepts and Procedural steps

Class Task:

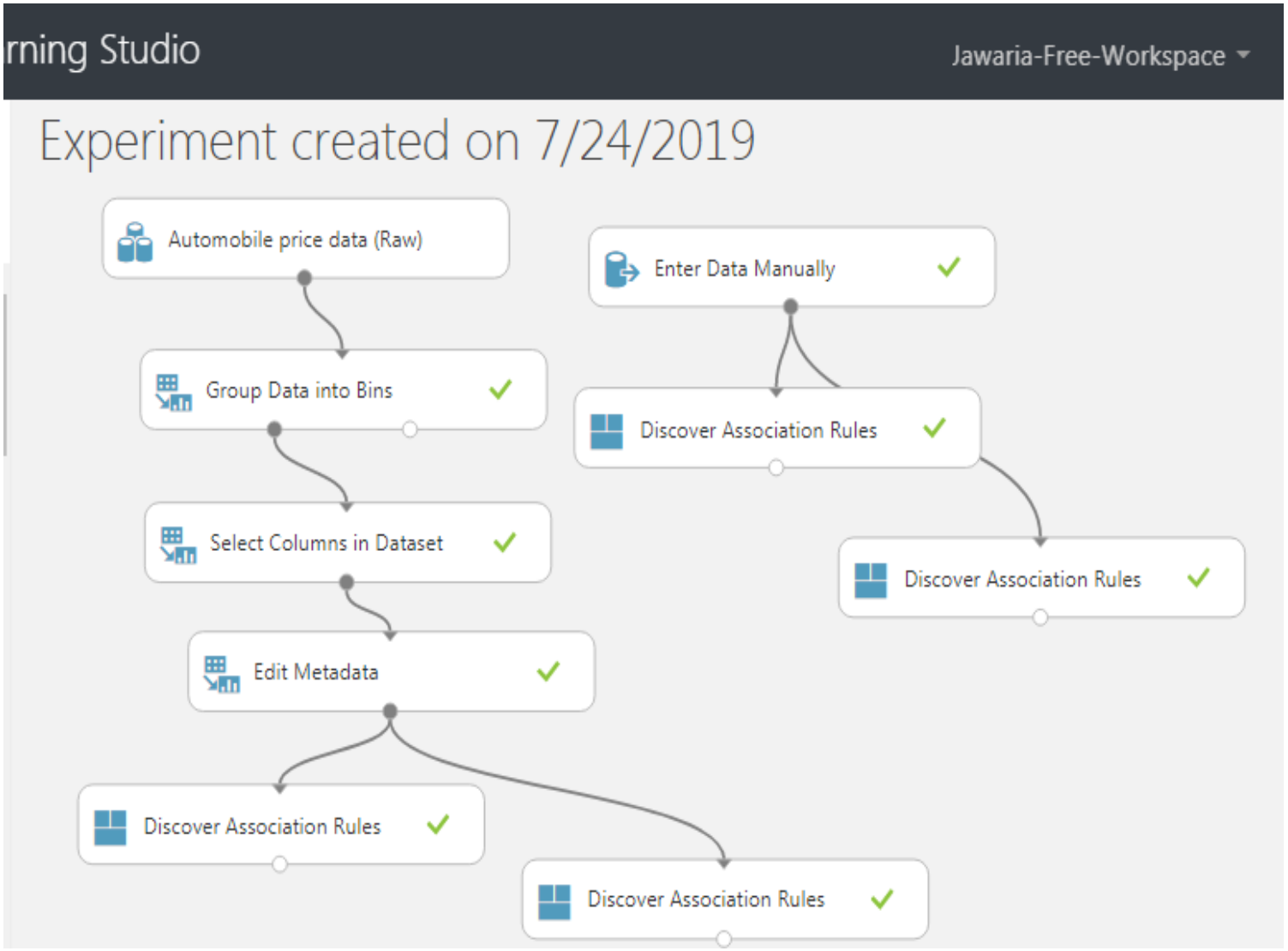


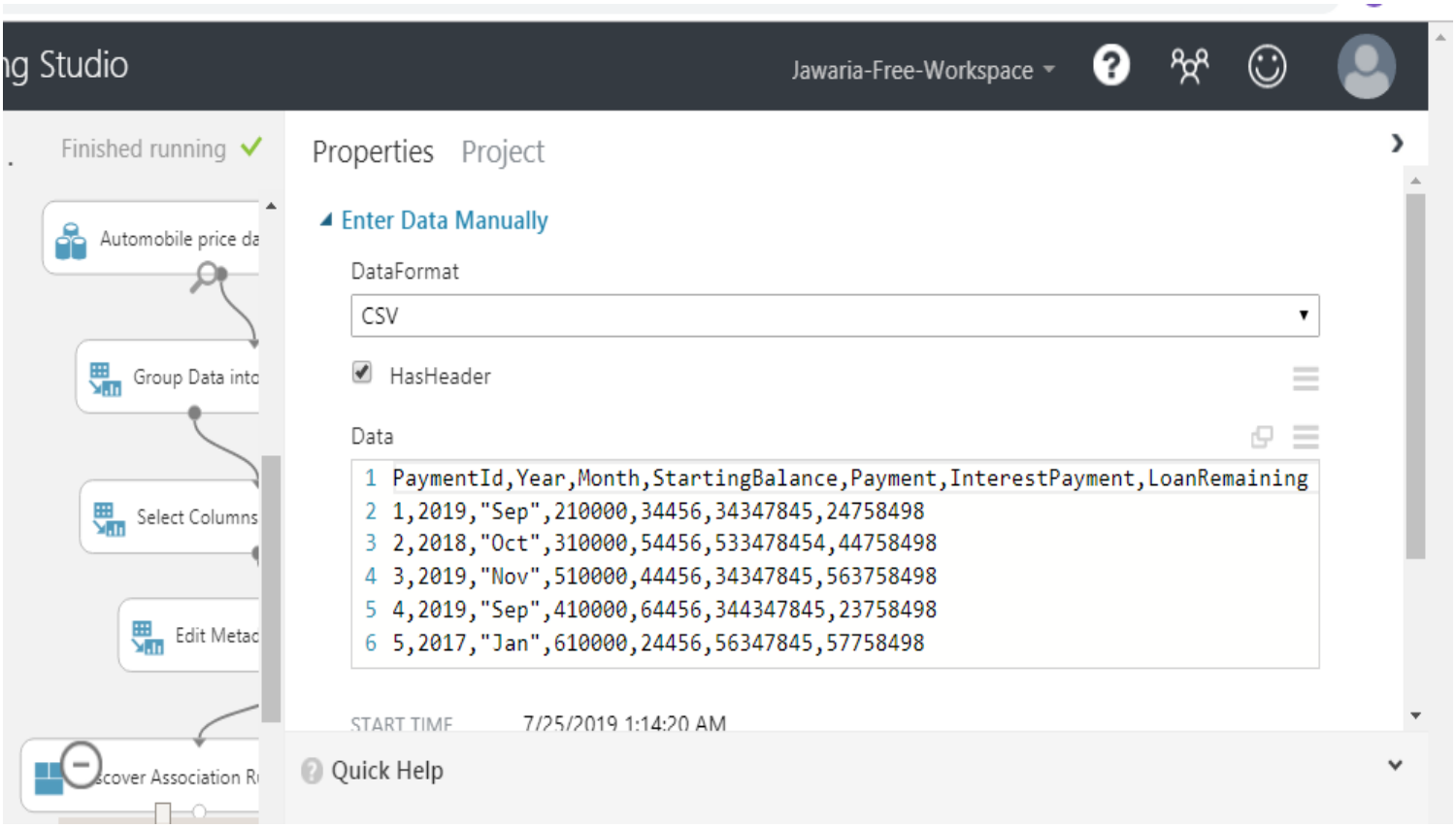

osoft Azure Machine Learning Studio
Jawaria-Free-Workspace
Experiment created on 7/24/2019
Experiment created on 7/24/2019 › Discover Association Rules › Rules
rows
5
columns
3
view as
id
items
support
1
{itemId=1,items=chocolate,cream,butter}
0.2
2
{itemId=2,items=honey,milk}
0.2
3
{itemId=3,items=soda,wine,honey}
0.2
4
{itemId=4,items=bread,soda,chocolate,cream}
0.2
5
{itemId=5,items=butter,wine,milk}
0.2
Statistics
Visualizations
To view, select a column in the table.

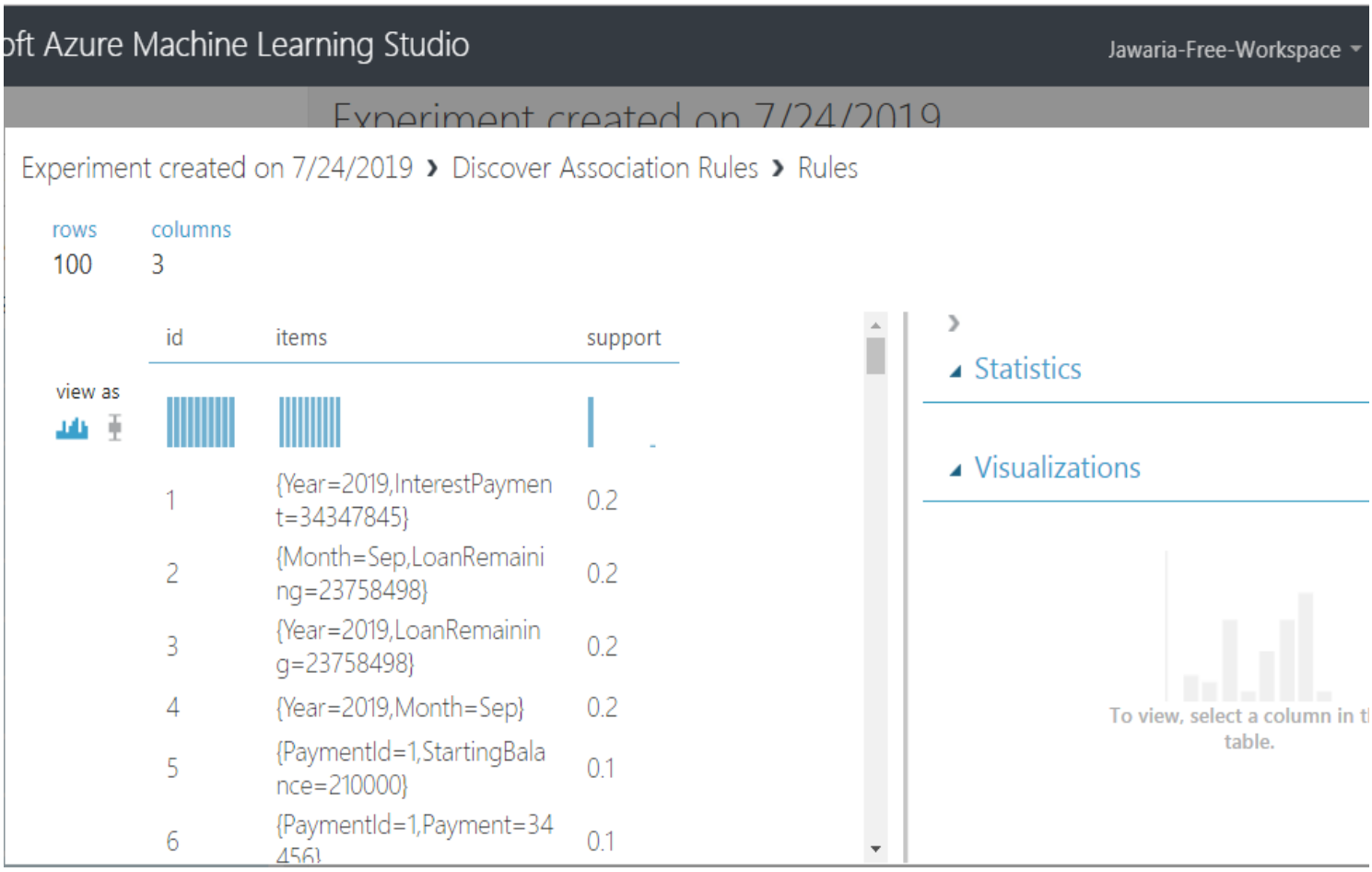

Jawaria-Free-Workspace
Experime...
In draft
Draft saved at 10:38:12 PM
Enter Data Manually
Discover Association Rules
Discover Association Rules
Properties
Project
Enter Data Manually
DataFormat
CSV
HasHeader
Data
1 itemId,items
2 1, "chocolate,cream,butter"
3 2, "honey,milk"
4 3, "soda,wine,honey"
5 4, "bread,soda,chocolate,cream"
6 5, "butter,wine,milk"
Quick Help
Enables entering and editing small datasets by typing values
(more help...)

Lab Tasks
Submission Date: 09-08-18

Take any dataset in CSV format and derive association rules and frequent item sets from it using any one of the approaches described above.




g Studio
Jawaria-Free-Workspace
Finished running
Automobile price da
Group Data into
Select Columns
Edit Metac
Discover Association R
Properties Project
Enter Data Manually
DataFormat
CSV
HasHeader
Data
1 PaymentId,Year,Month,StartingBalance,Payment,InterestPayment,LoanRemaining
2 1,2019,"Sep",210000,34456,34347845,24758498
3 2,2018,"Oct",310000,54456,533478454,44758498
4 3,2019,"Nov",510000,44456,34347845,563758498
5 4,2019,"Sep",410000,64456,344347845,23758498
6 5,2017,"Jan",610000,24456,56347845,57758498
START TIME 7/25/2019 1:14:20 AM
Quick Help


oft Azure Machine Learning Studio
Jawaria-Free-Workspace
Experiment created on 7/24/2019
Experiment created on 7/24/2019 › Discover Association Rules › Rules
rows 100
columns 3
view as
id
items
support
1 {Year=2019,InterestPayment=34347845} 0.2
2 {Month=Sep,LoanRemaining=23758498} 0.2
3 {Year=2019,LoanRemaining=23758498} 0.2
4 {Year=2019,Month=Sep} 0.2
5 {PaymentId=1,StartingBalance=210000} 0.1
6 {PaymentId=1,Payment=3456} 0.1
Statistics
Visualizations
To view, select a column in t
table.