Project Development Phase

Delivery of Sprint-1

Date	29 October 2022
Team ID	PNT2022TMID38332
Project Name	Retail Store Stock Inventory Analytics

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- Dashboard Creation

Sprint-4:

- Report Creation
- Story Creation

Team ID - PNT2022TMID38332

ANANDA MUTHUKUMAR S – 412719104004

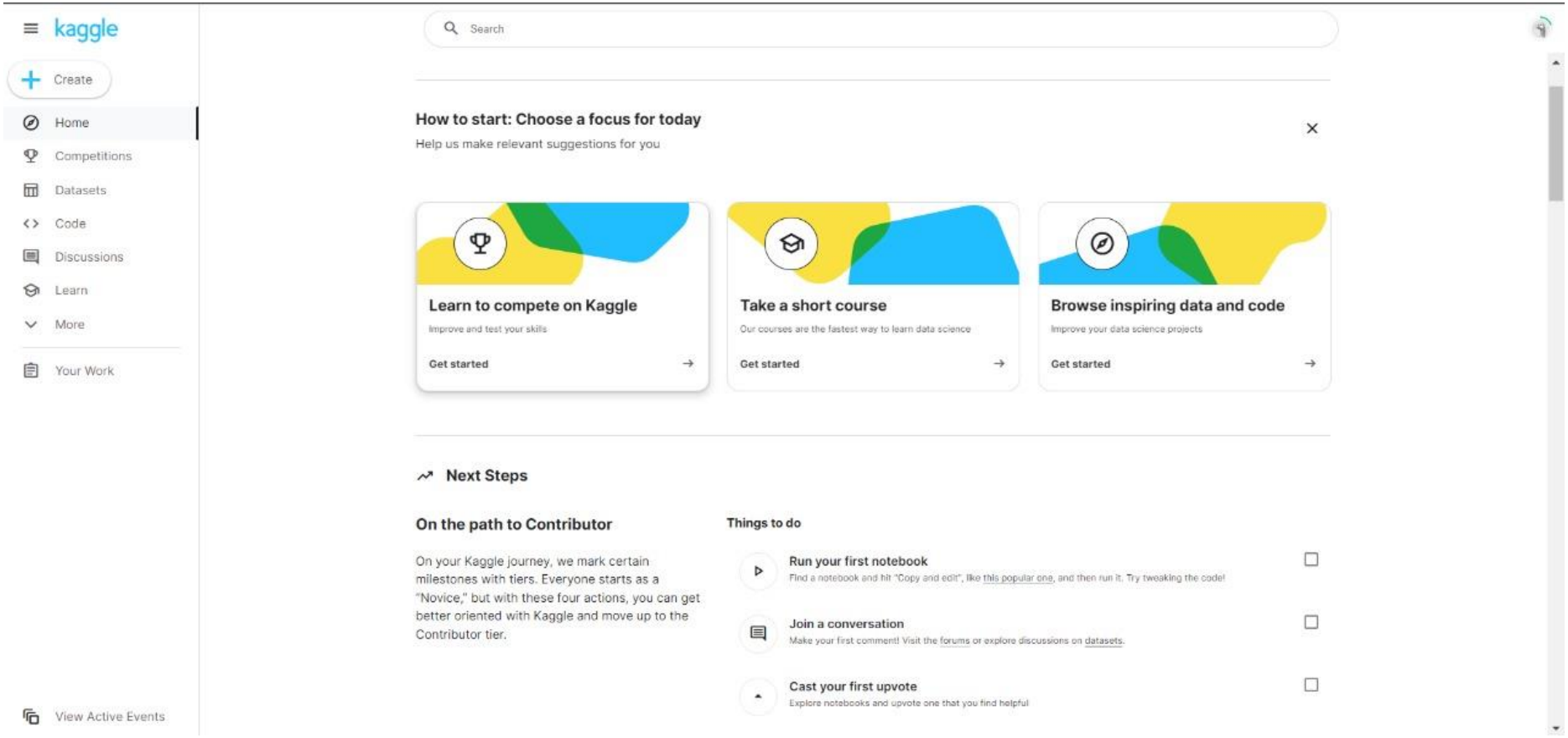
ADITHYA MURUGAN – 412719104002

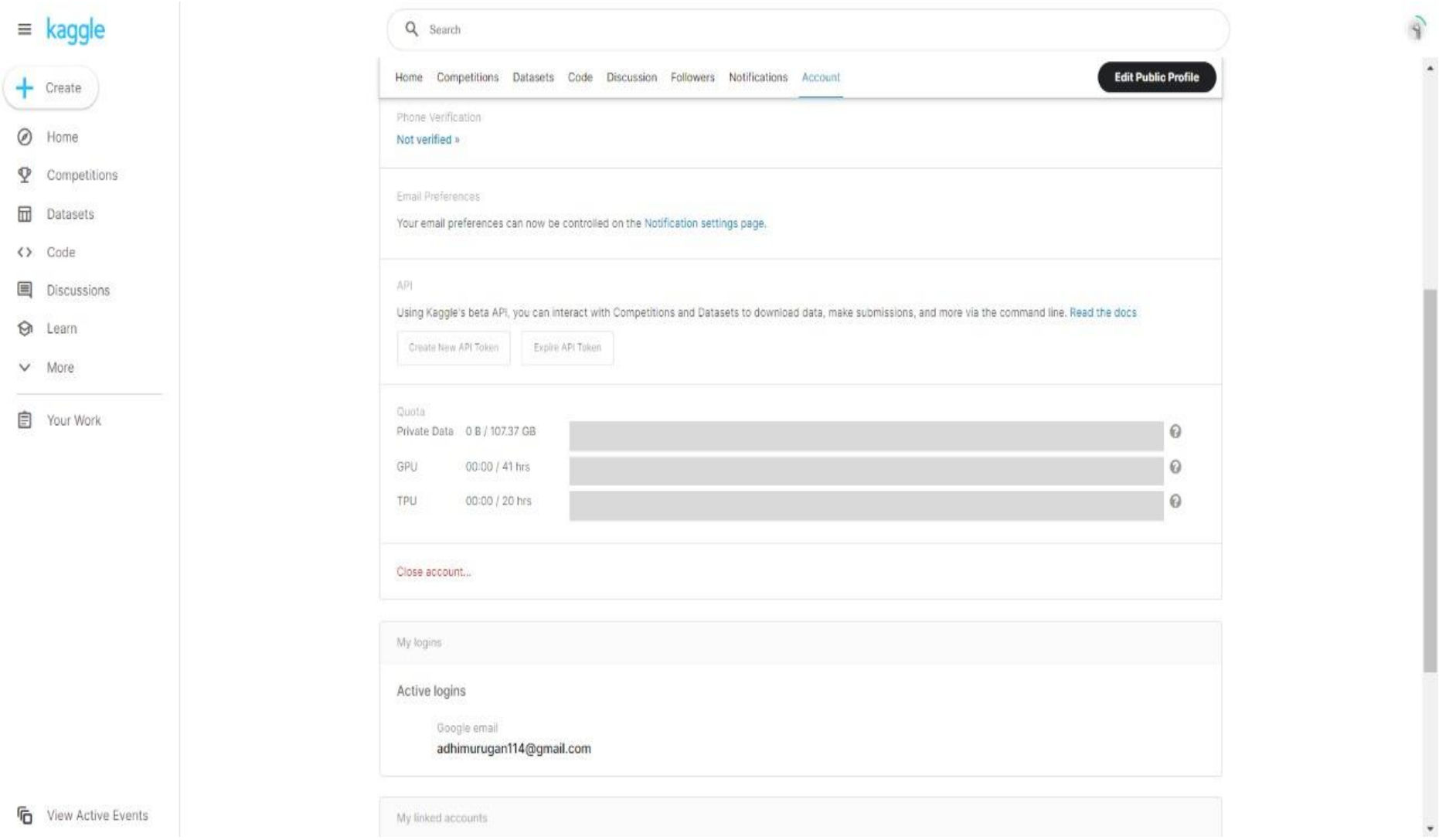
SHERWIN JEYARAM AZARIAH J – 412719104031

ROKESHVAR M – 412719104027

Sprint-1:

Data Collection from external API:

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Not verified »
Email Preferences
Your email preferences can now be controlled on the Notification settings page.
API
Using Kaggle's beta API, you can interact with Competitions and Datasets to download data, make submissions, and more via the command line. Read the docs
Create New API Token
Expire API Token
Quota
Private Data 0 B / 107.37 GB
GPU 00:00 / 41 hrs
TPU 00:00 / 20 hrs
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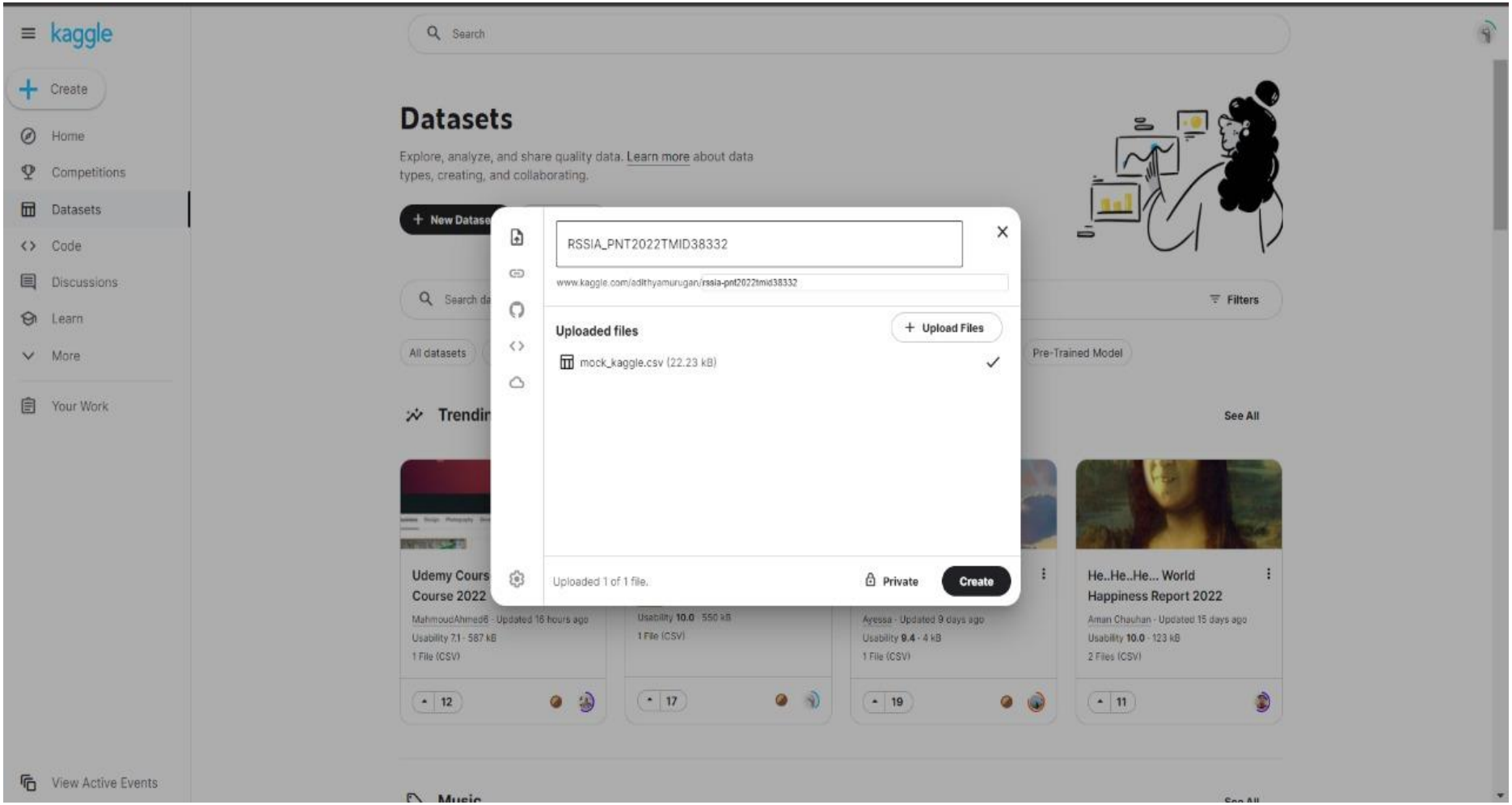
My logins
Active logins
Google email
adhimurugan114@gmail.com
My linked accounts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www.kaggle.com/adithyamurugan/rssia-pnt2022tmid38332
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mock_kaggle.csv (22.23 kB)
Uploaded 1 of 1 file.
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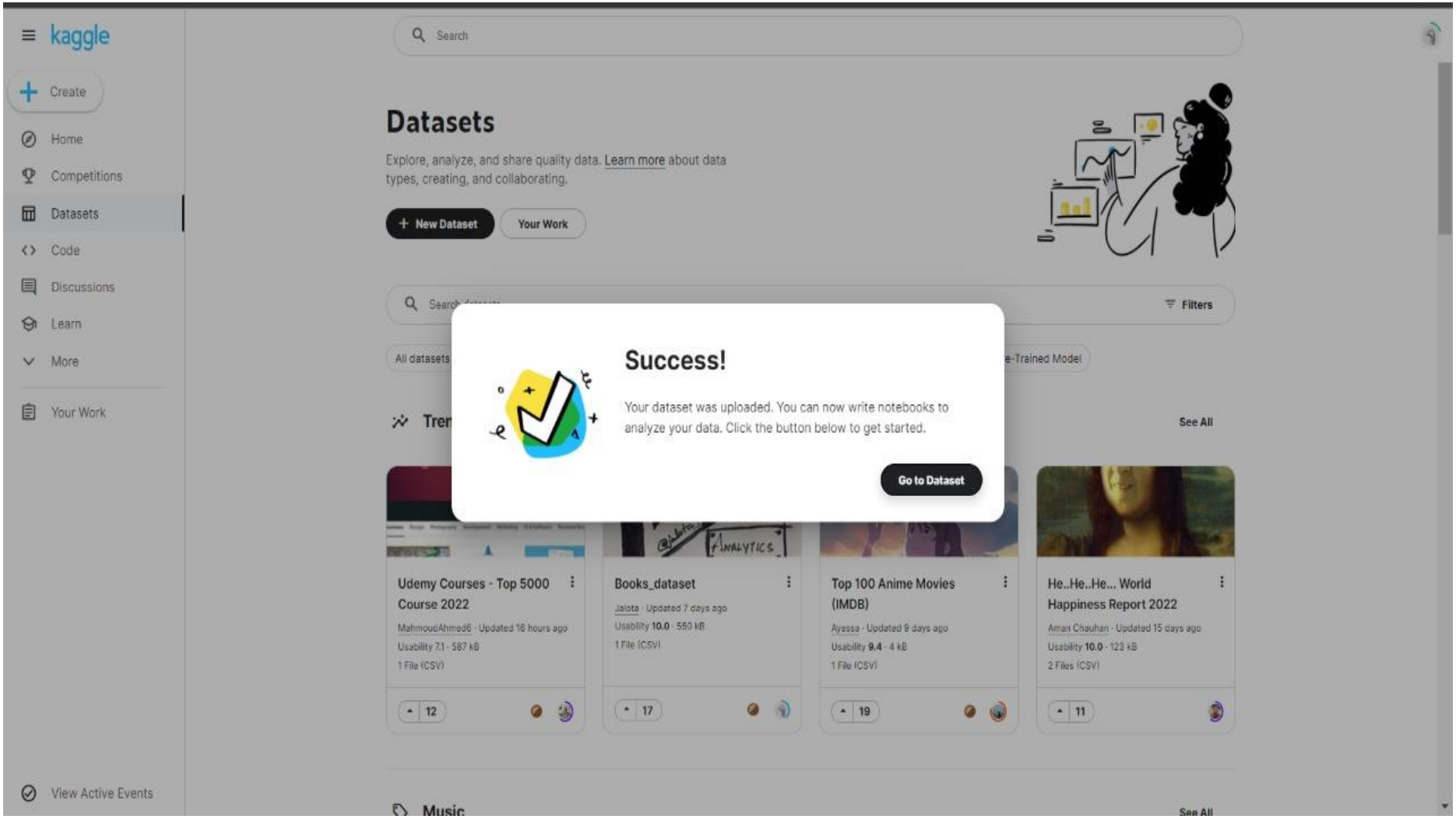
Pre-Trained Model
See All
He..He..He... World Happiness Report 2022
Aman Chauhan · Updated 15 days ago
Usability 10.0 · 123 kB
2 Files (CSV)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Books_dataset
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1 File (CSV)
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Top 100 Anime Movies (IMDB)
Ayessa · Updated 9 days ago
Usability 9.4 · 4 kB
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19
He..He..He... World Happiness Report 2022
Aman Chauhan · Updated 15 days ago
Usability 10.0 · 123 kB
2 Files (CSV)
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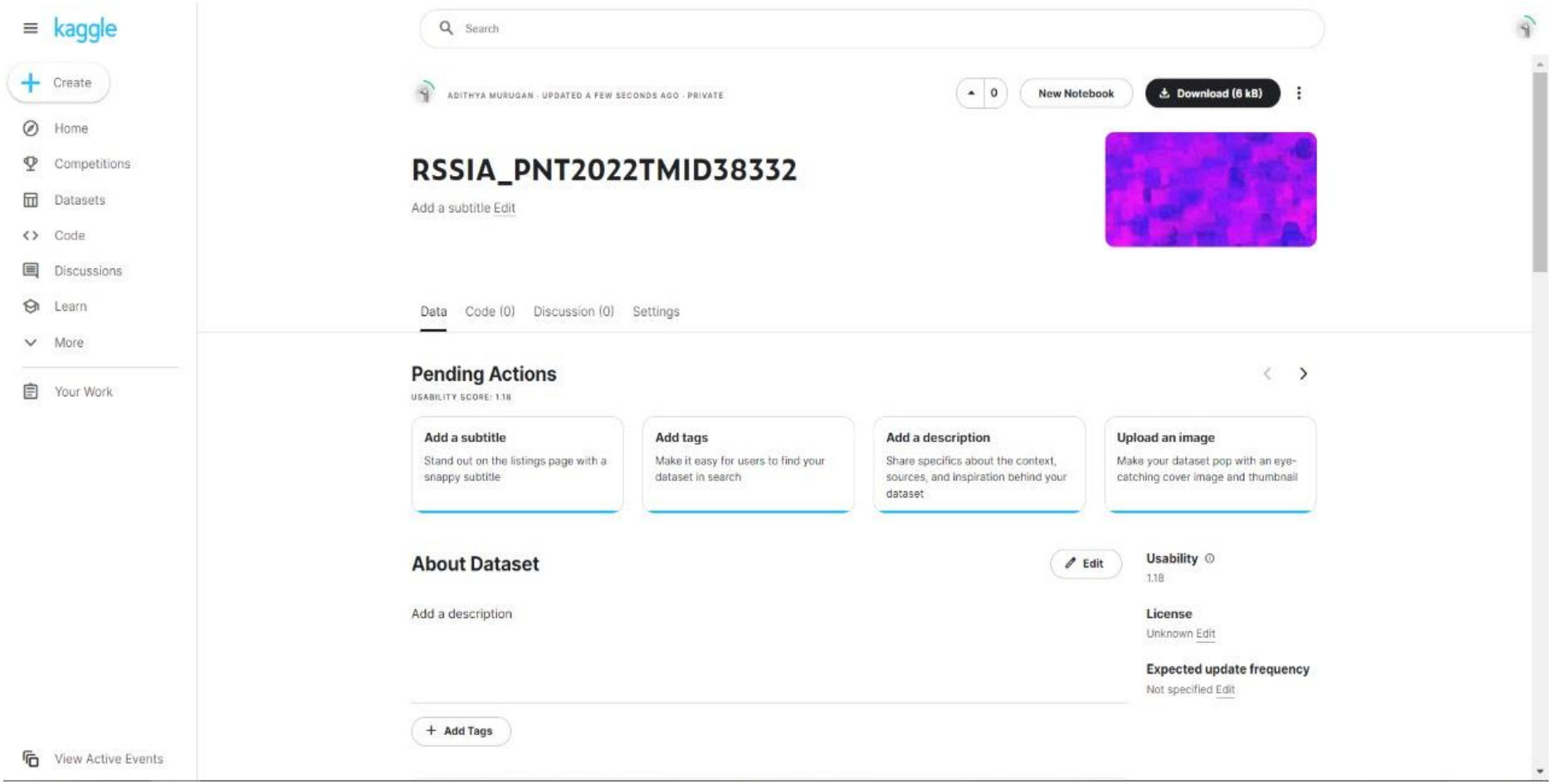
Music
See All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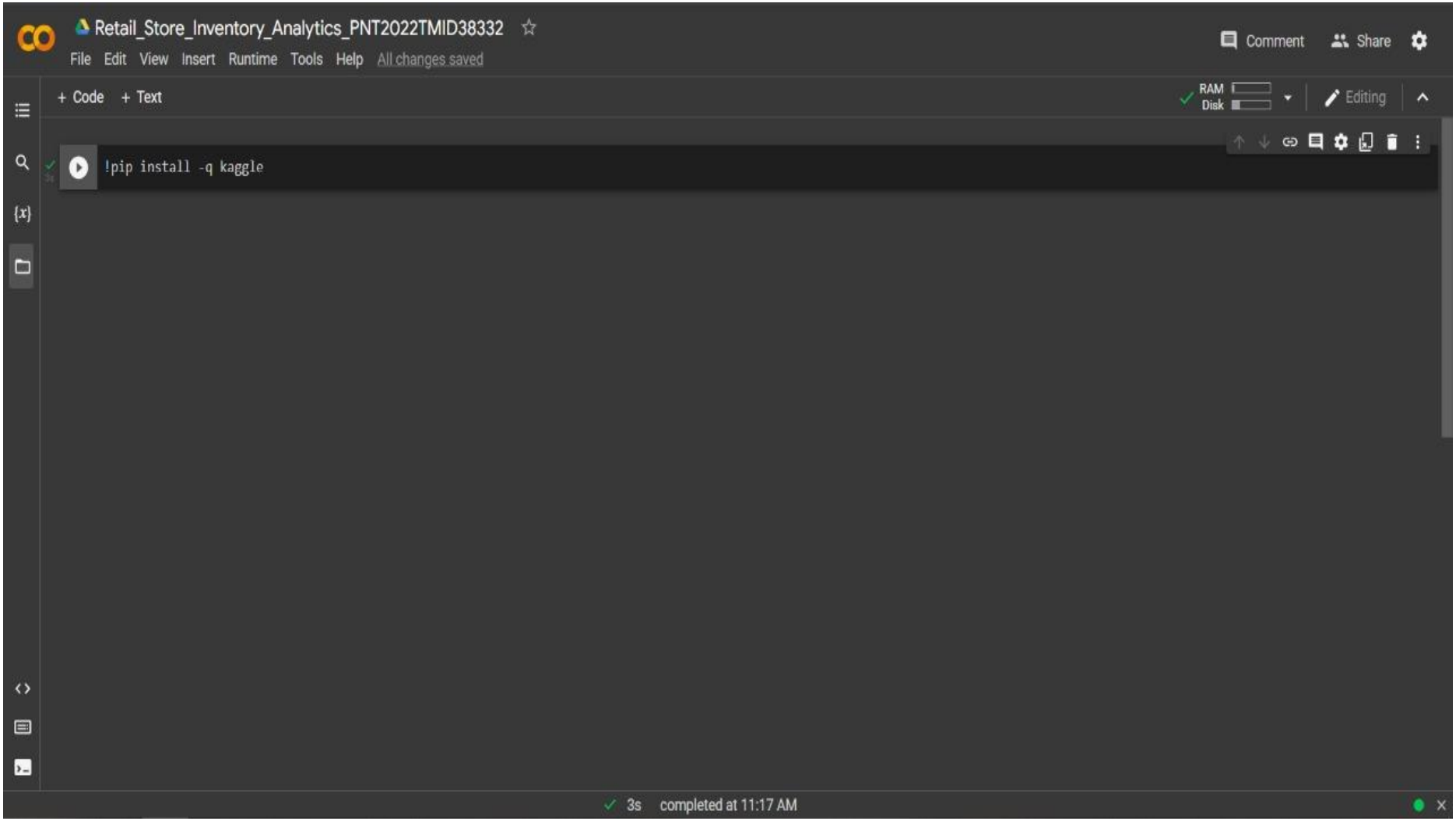
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File Edit View Insert Runtime Tools Help All changes saved
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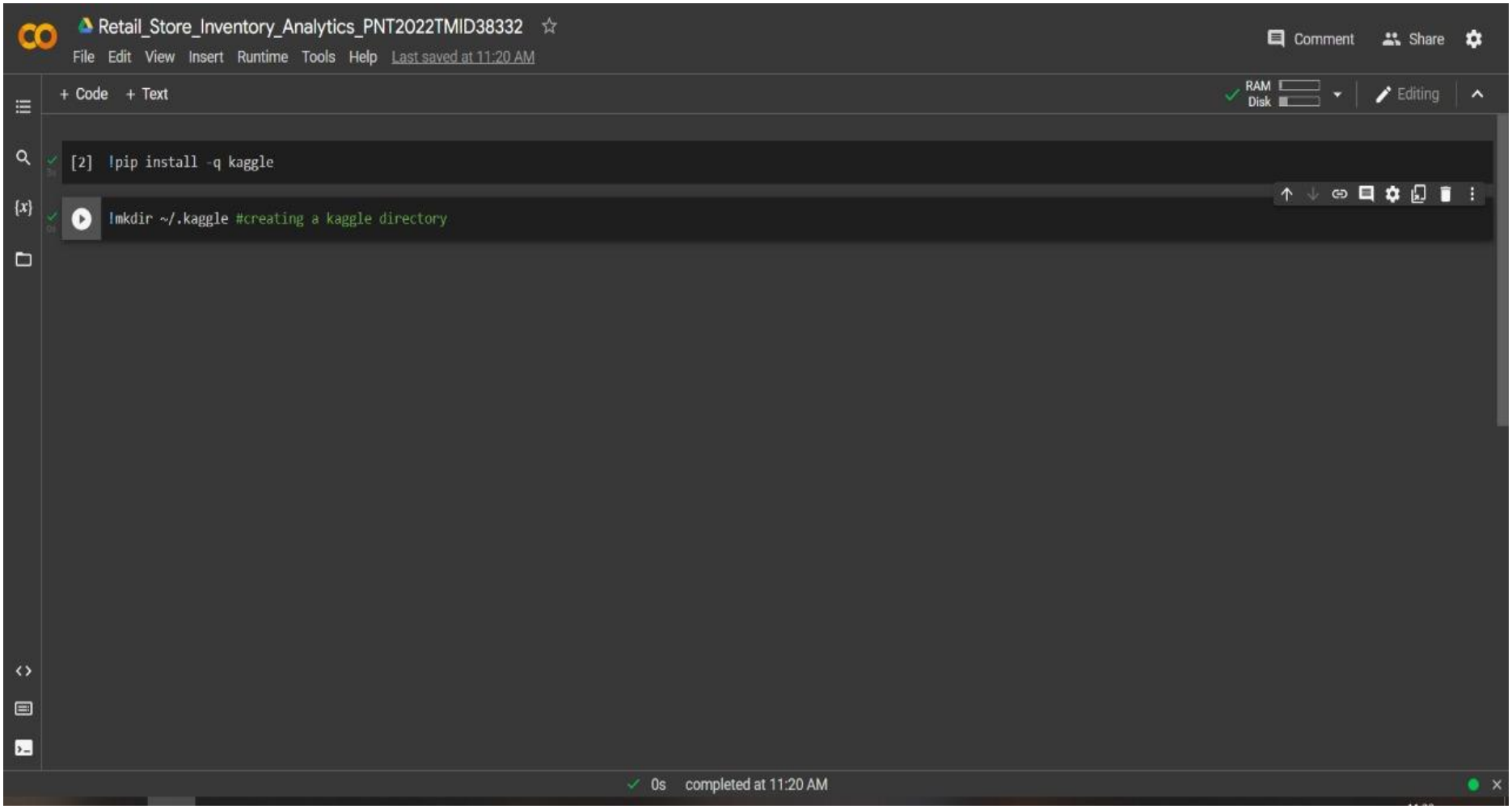
!pip install -q kaggle
3s completed at 11:17 AM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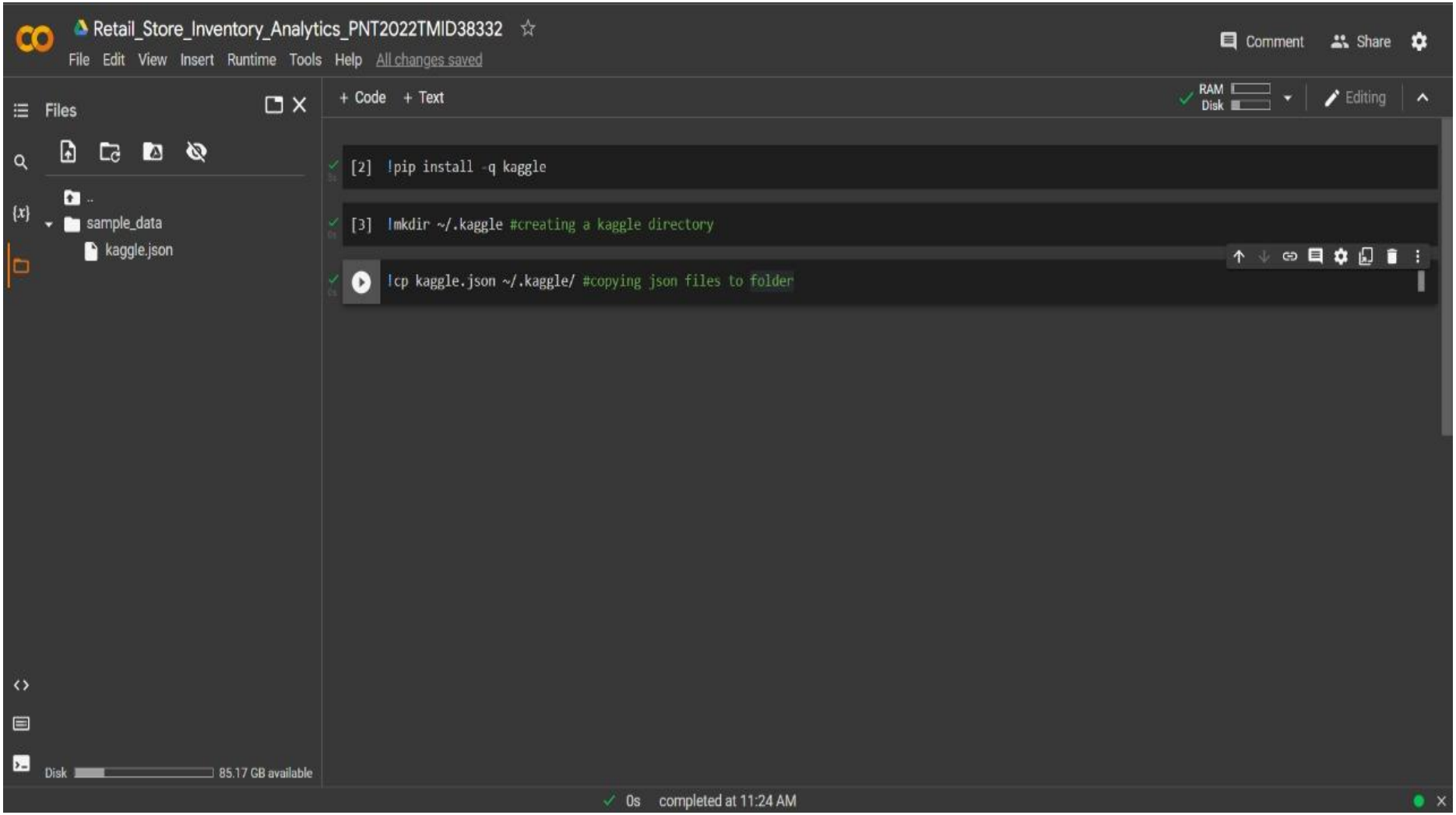
[2] !pip install -q kaggle
!mkdir ~/.kaggle #creating a kaggle directory
0s completed at 11:20 AM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Editing
sample_data
kaggle.json
[2] !pip install -q kaggle
[3] !mkdir ~/.kaggle #creating a kaggle directory
!cp kaggle.json ~/.kaggle/ #copying json files to folder
Disk 85.17 GB available
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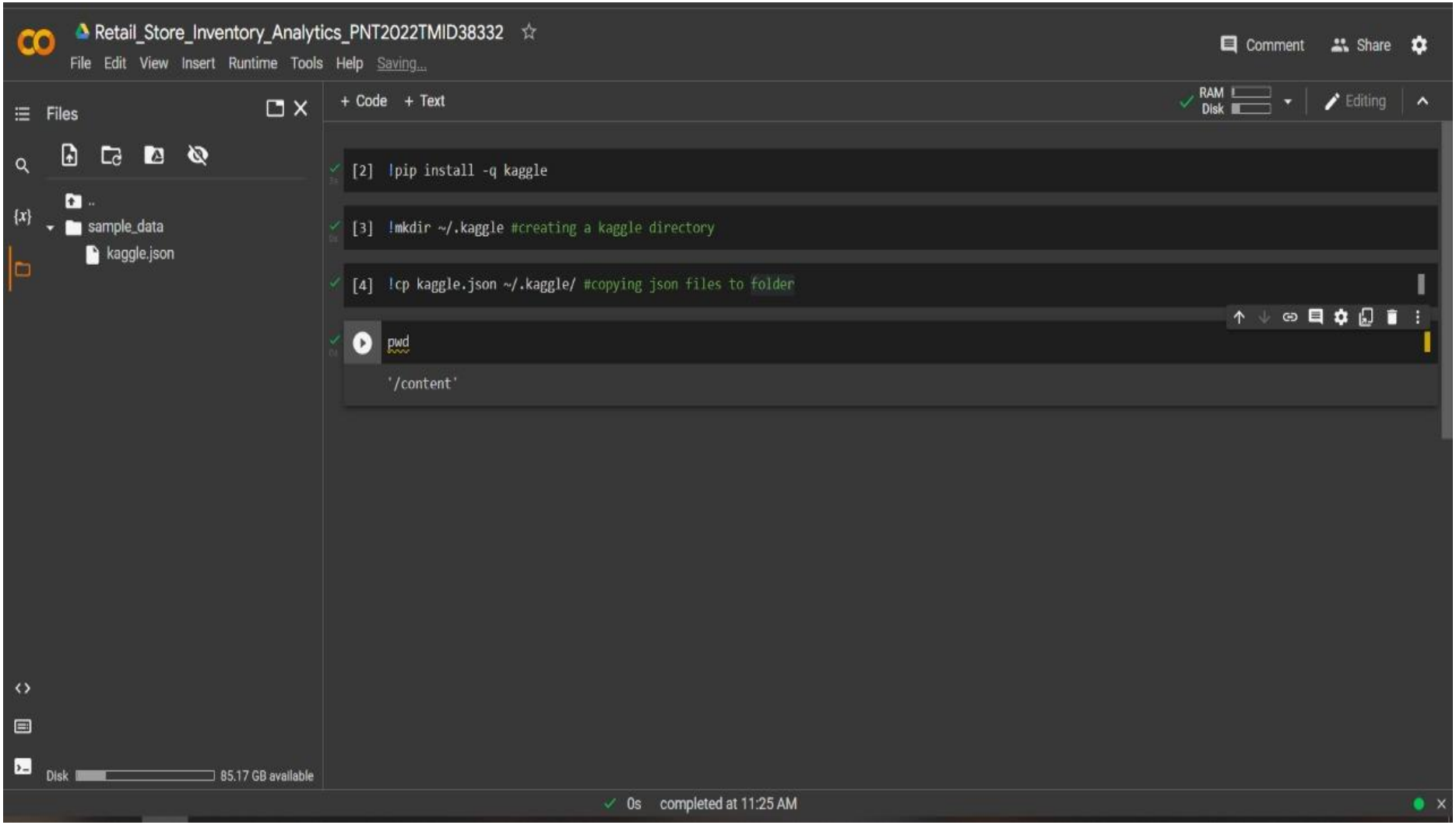
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sample_data
kaggle.json
[2] !pip install -q kaggle
[3] !mkdir ~/.kaggle #creating a kaggle directory
[4] !cp kaggle.json ~/.kaggle/ #copying json files to folder
pwd
'/content'
Disk 85.17 GB available
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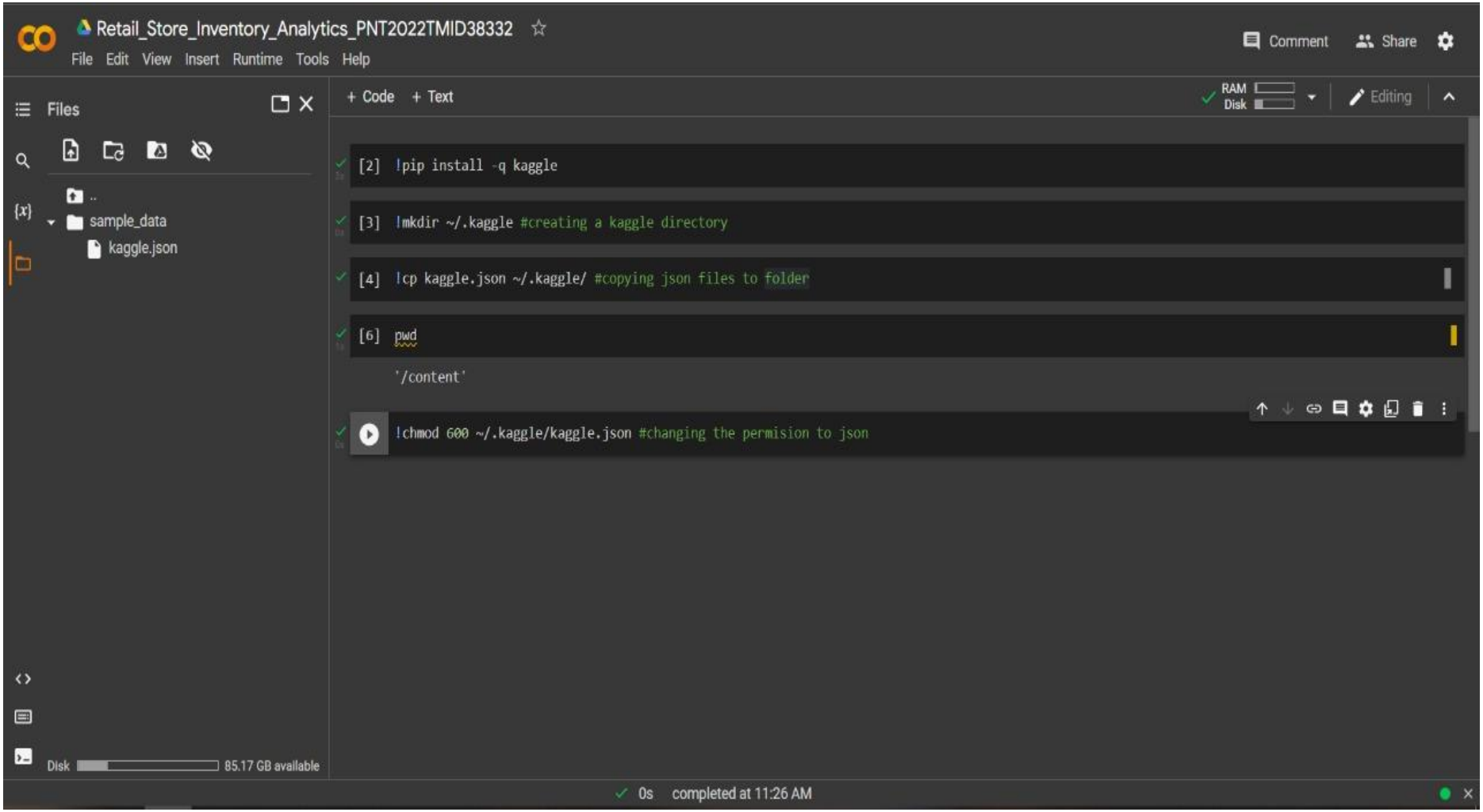
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sample_data
kaggle.json
[2] !pip install -q kaggle
[3] !mkdir ~/.kaggle #creating a kaggle directory
[4] !cp kaggle.json ~/.kaggle/ #copying json files to folder
[6] pwd
'/content'
!chmod 600 ~/.kaggle/kaggle.json #changing the permision to json
Disk 85.17 GB available
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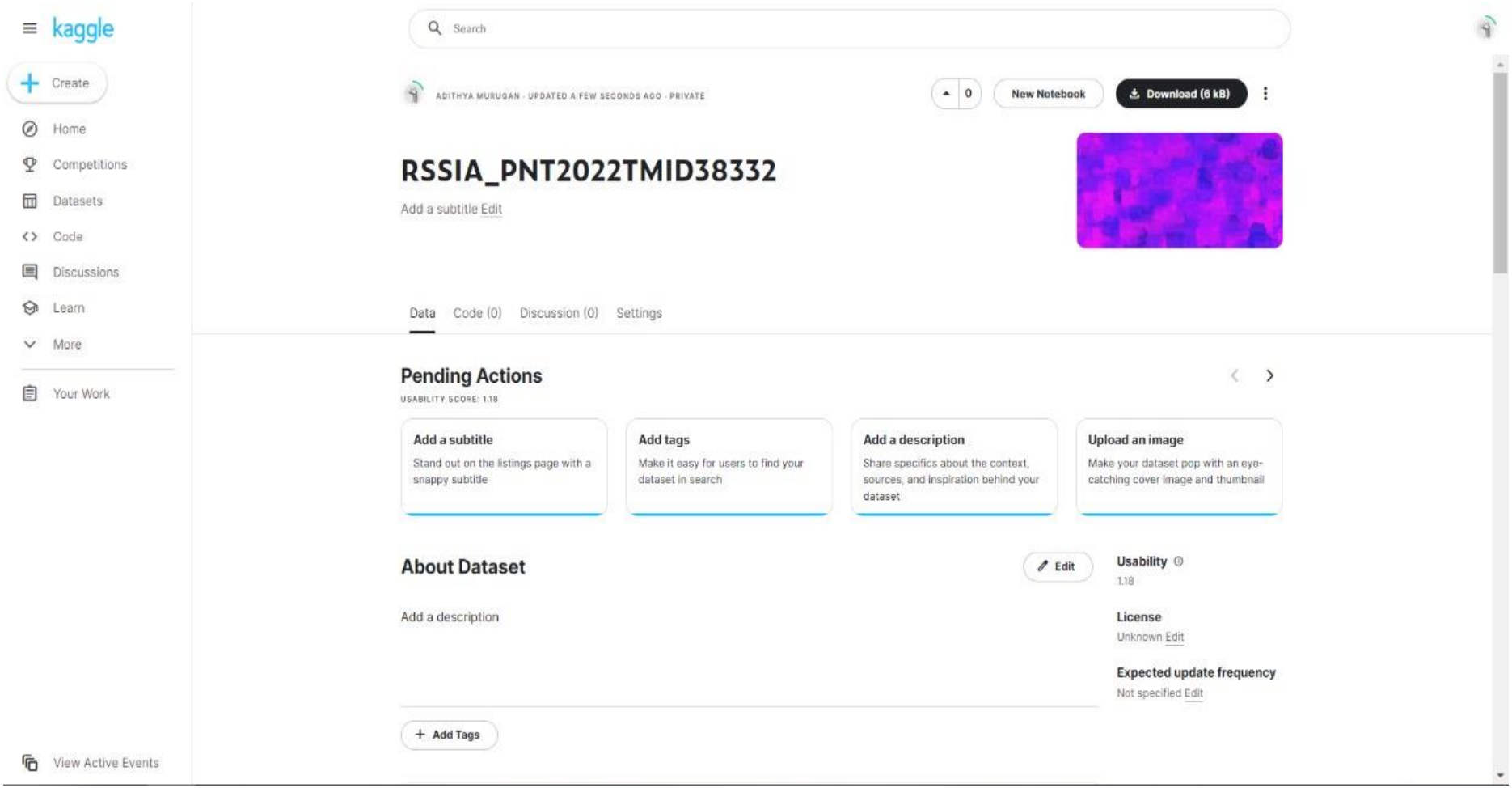
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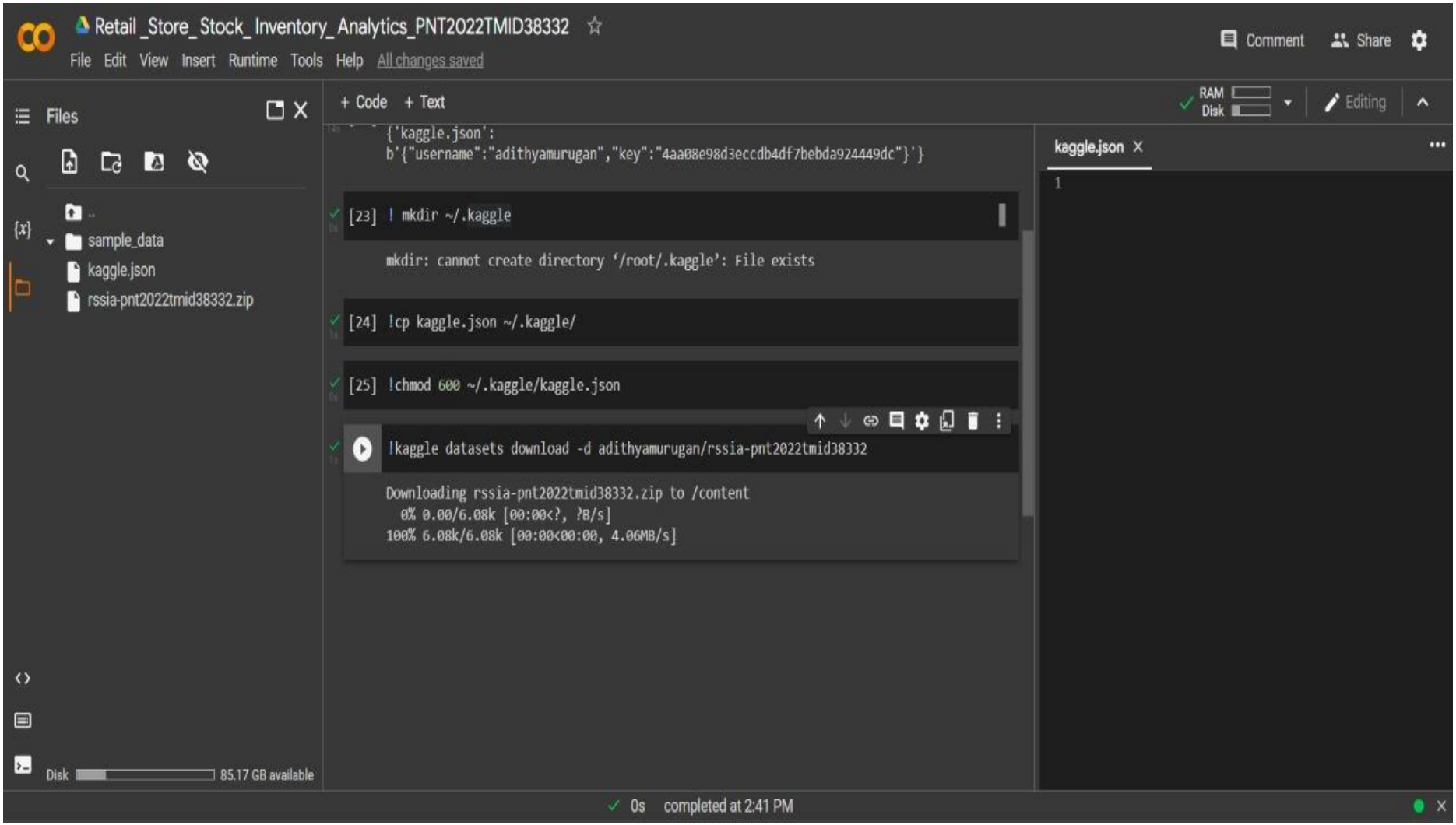
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File Edit View Insert Runtime Tools Help All changes saved
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{'kaggle.json':
b'{"username":"adithyamurugan","key":"4aa08e98d3eccdb4df7bebda924449dc"}'}
[23] ! mkdir ~/.kaggle
mkdir: cannot create directory '/root/.kaggle': File exists
[24] !cp kaggle.json ~/.kaggle/
[25] !chmod 600 ~/.kaggle/kaggle.json
!kaggle datasets download -d adithyamurugan/rssia-pnt2022tmid38332
Downloading rssia-pnt2022tmid38332.zip to /content
0% 0.00/6.08k [00:00<?, ?B/s]
100% 6.08k/6.08k [00:00<00:00, 4.06MB/s]
kaggle.json
1
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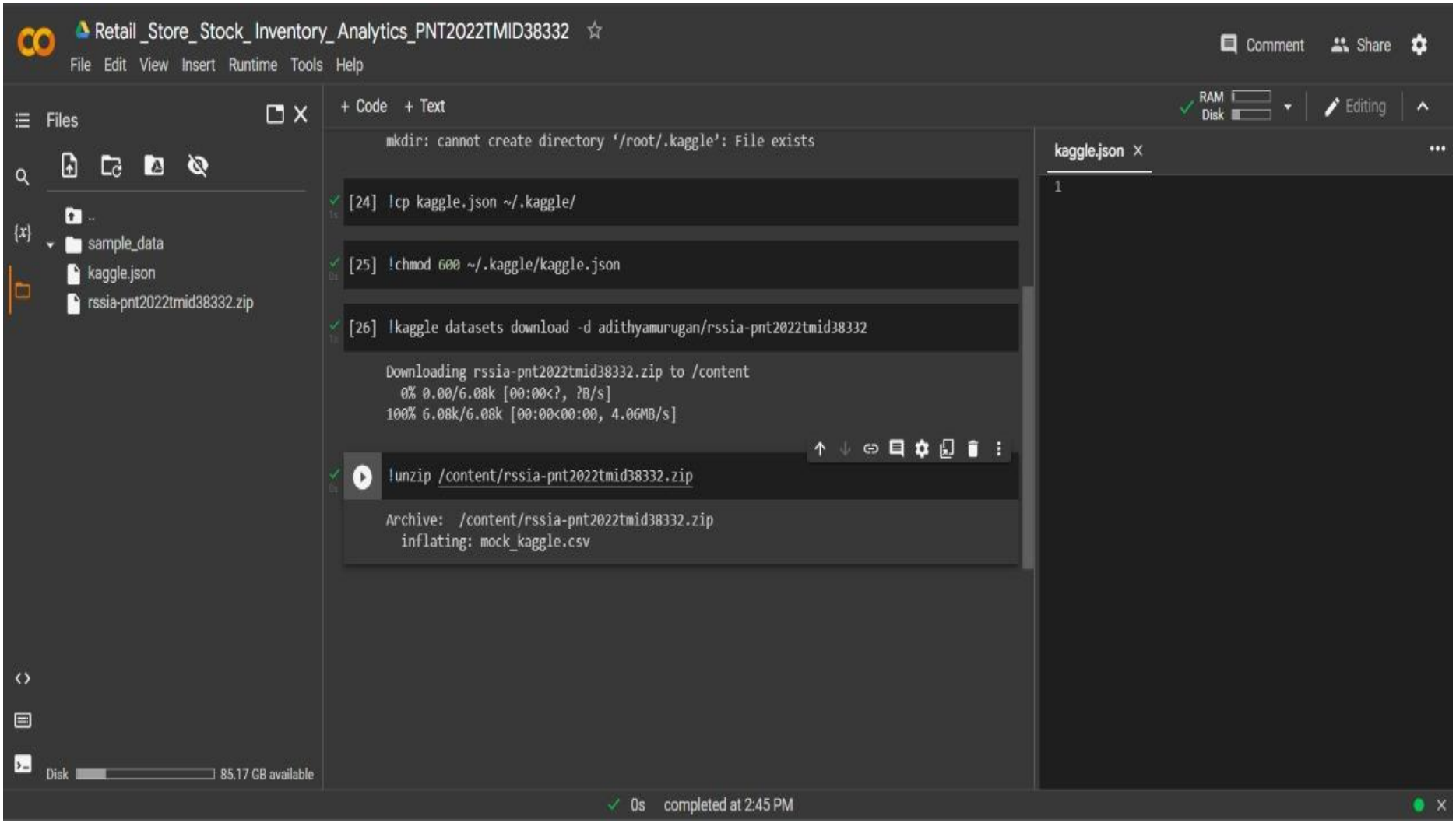
sample_data
kaggle.json
rssia-pnt2022tmid38332.zip
Disk
85.17 GB available
0s completed at 2:41 PM


Retail _Store_ Stock_ Inventory_ Analytics_PNT2022TMID38332
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mkdir: cannot create directory '/root/.kaggle': File exists
[24] !cp kaggle.json ~/.kaggle/
[25] !chmod 600 ~/.kaggle/kaggle.json
[26] !kaggle datasets download -d adithyamurugan/rssia-pnt2022tmid38332
Downloading rssia-pnt2022tmid38332.zip to /content
0% 0.00/6.08k [00:00<?, ?B/s]
100% 6.08k/6.08k [00:00<00:00, 4.06MB/s]
!unzip /content/rssia-pnt2022tmid38332.zip
Archive: /content/rssia-pnt2022tmid38332.zip
inflating: mock_kaggle.csv
kaggle.json
1
..
sample_data
kaggle.json
rssia-pnt2022tmid38332.zip
Disk
85.17 GB available
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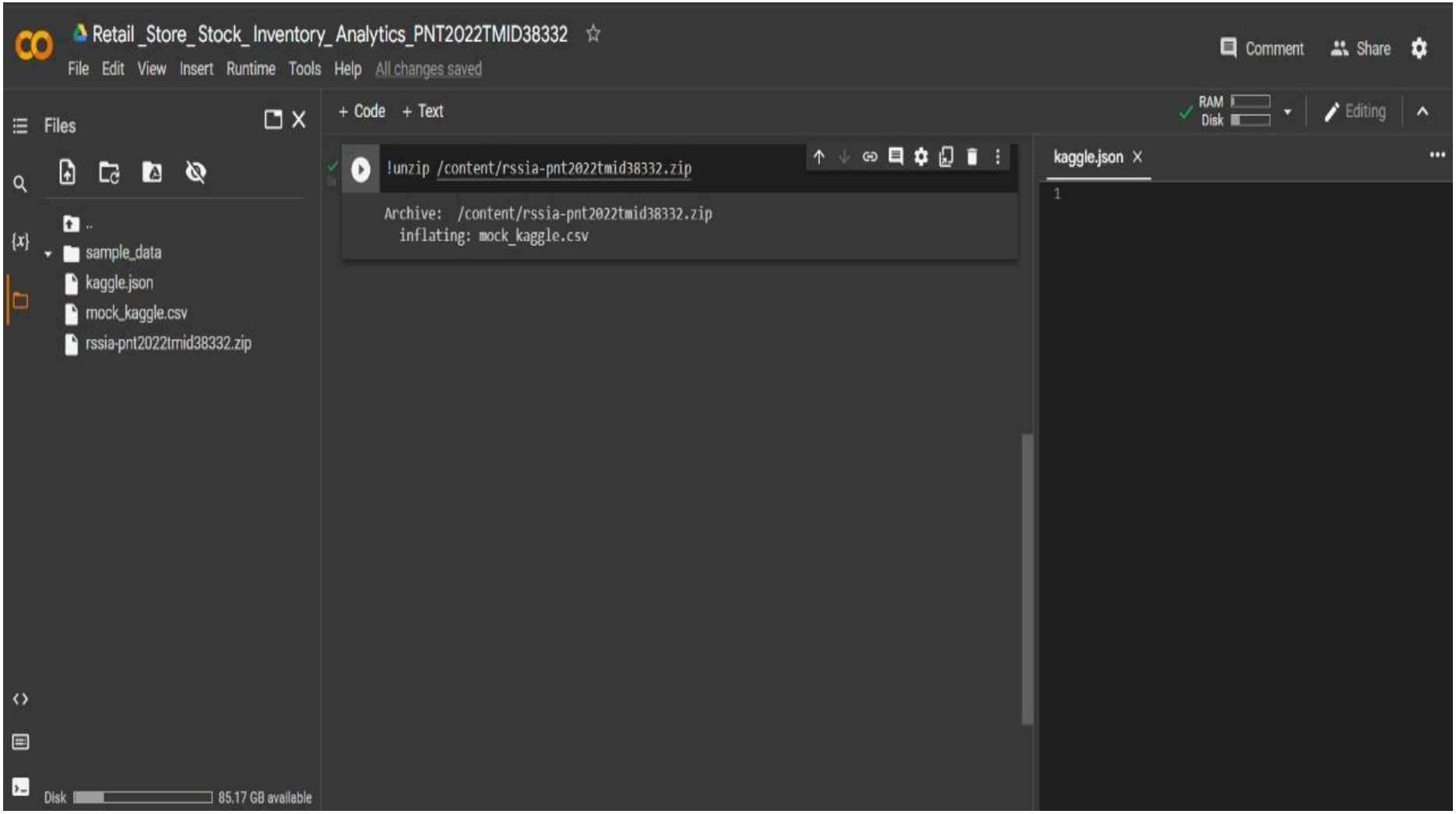
Retail _Store_ Stock_ Inventory_ Analytics_PNT2022TMID38332
File Edit View Insert Runtime Tools Help All changes saved
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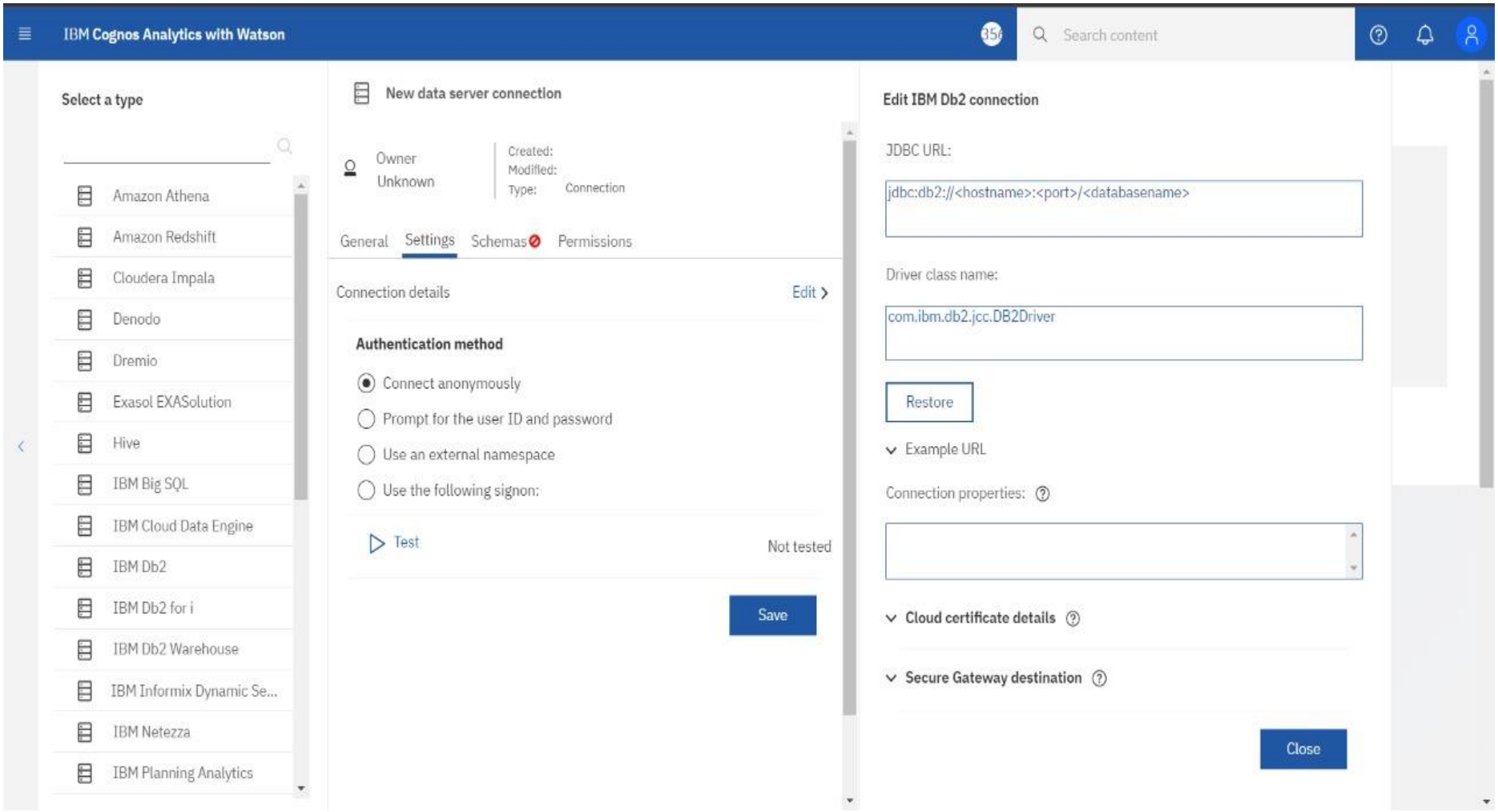
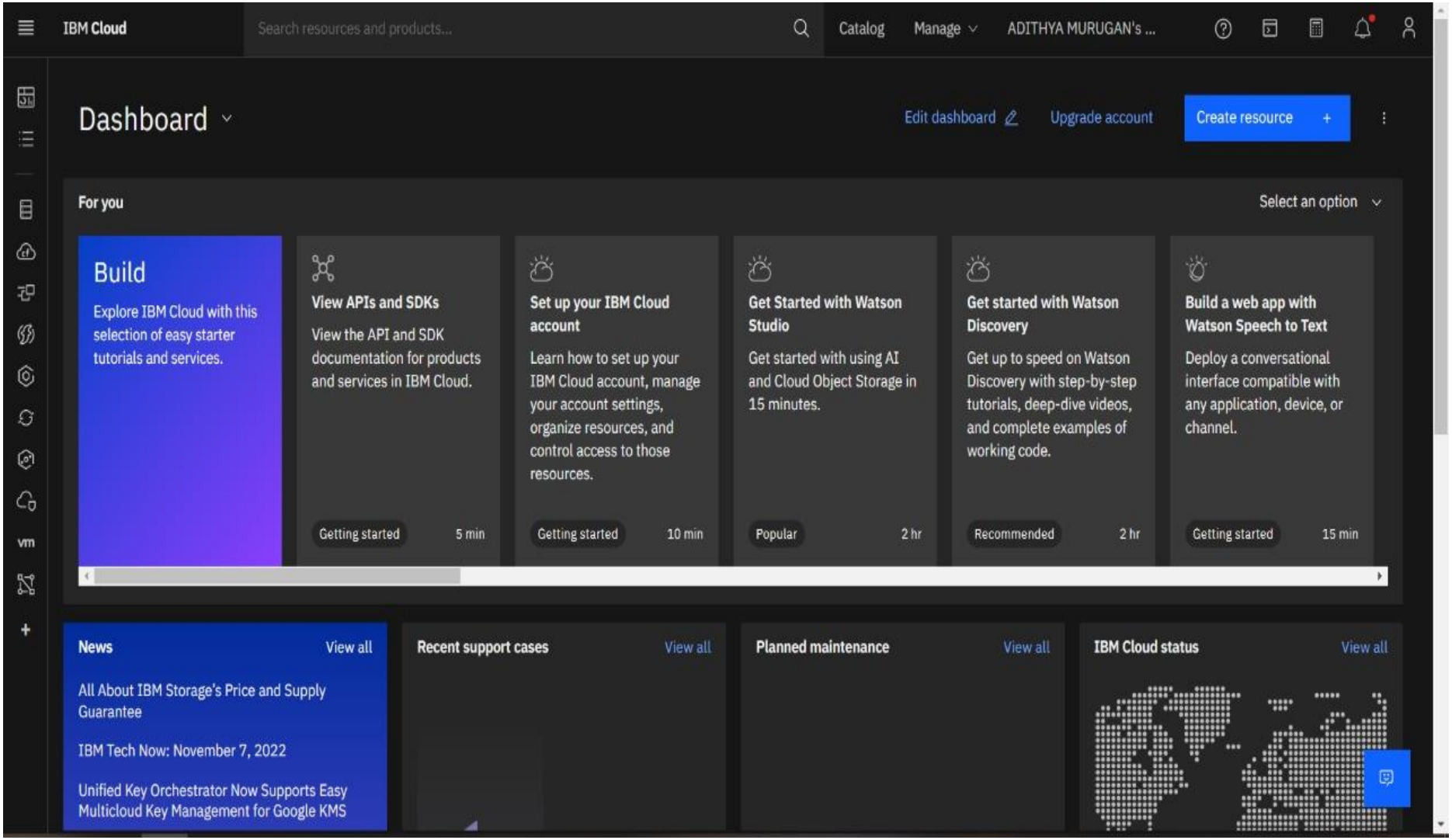
Disk
Editing
!unzip /content/rssia-pnt2022tmid38332.zip
Archive: /content/rssia-pnt2022tmid38332.zip
inflating: mock_kaggle.csv
kaggle.json
1
..
sample_data
kaggle.json
mock_kaggle.csv
rssia-pnt2022tmid38332.zip
Disk
85.17 GB available

Load the Dataset in IBM Cloud DB2:




IBM Cloud
Search resources and products...
Catalog
Manage
ADITHYA MURUGAN's ...
Dashboard
Edit dashboard
Upgrade account
Create resource
For you
Select an option
Build
Explore IBM Cloud with this selection of easy starter tutorials and services.
View APIs and SDKs
View the API and SDK documentation for products and services in IBM Cloud.
Getting started
5 min
Set up your IBM Cloud account
Learn how to set up your IBM Cloud account, manage your account settings, organize resources, and control access to those resources.
Getting started
10 min
Get Started with Watson Studio
Get started with using AI and Cloud Object Storage in 15 minutes.
Popular
2 hr
Get started with Watson Discovery
Get up to speed on Watson Discovery with step-by-step tutorials, deep-dive videos, and complete examples of working code.
Recommended
2 hr
Build a web app with Watson Speech to Text
Deploy a conversational interface compatible with any application, device, or channel.
Getting started
15 min
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IBM Tech Now: November 7, 2022
Unified Key Orchestrator Now Supports Easy Multicloud Key Management for Google KMS
Recent support cases
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Planned maintenance
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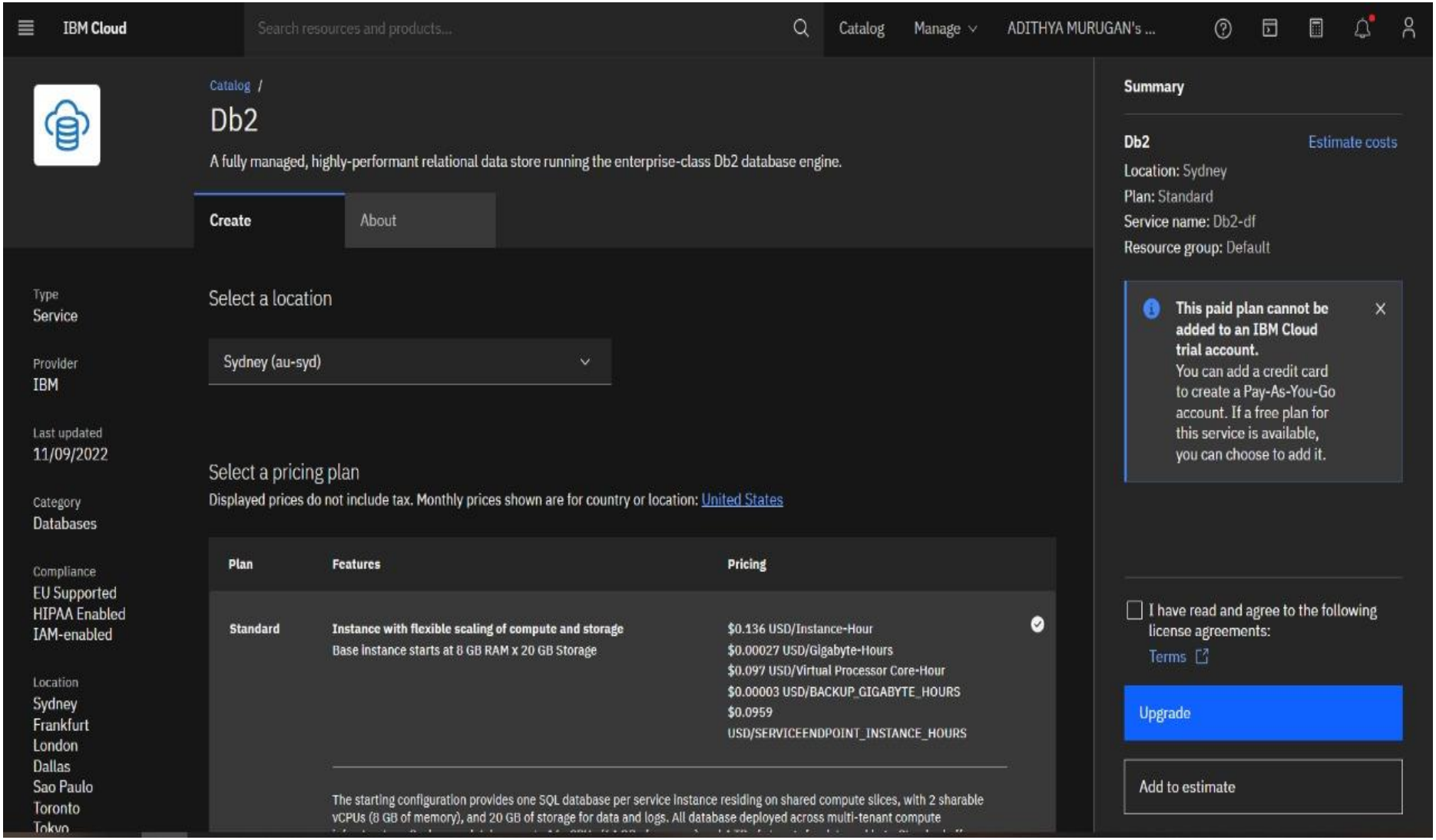
IBM Cloud status
View all


IBM Cloud
Search resources and products...
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Catalog /
Db2
A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.
Create
About
Type
Service
Provider
IBM
Last updated
11/09/2022
Category
Databases
Compliance
EU Supported
HIPAA Enabled
IAM-enabled
Location
Sydney
Frankfurt
London
Dallas
Sao Paulo
Toronto
Tokyo
Select a location
Sydney (au-syd)
Select a pricing plan
Displayed prices do not include tax. Monthly prices shown are for country or location: United States
Plan
Features
Pricing
Standard
Instance with flexible scaling of compute and storage
Base instance starts at 8 GB RAM x 20 GB Storage
$0.136 USD/Instance-Hour
$0.00027 USD/Gigabyte-Hours
$0.097 USD/Virtual Processor Core-Hour
$0.00003 USD/BACKUP_GIGABYTE_HOURS
$0.0959
USD/SERVICEENDPOINT_INSTANCE_HOURS
The starting configuration provides one SQL database per service instance residing on shared compute slices, with 2 sharable vCPUs (8 GB of memory), and 20 GB of storage for data and logs. All database deployed across multi-tenant compute
Summary
Db2
Estimate costs
Location: Sydney
Plan: Standard
Service name: Db2-df
Resource group: Default
This paid plan cannot be added to an IBM Cloud trial account.
You can add a credit card to create a Pay-As-You-Go account. If a free plan for this service is available, you can choose to add it.
I have read and agree to the following license agreements:
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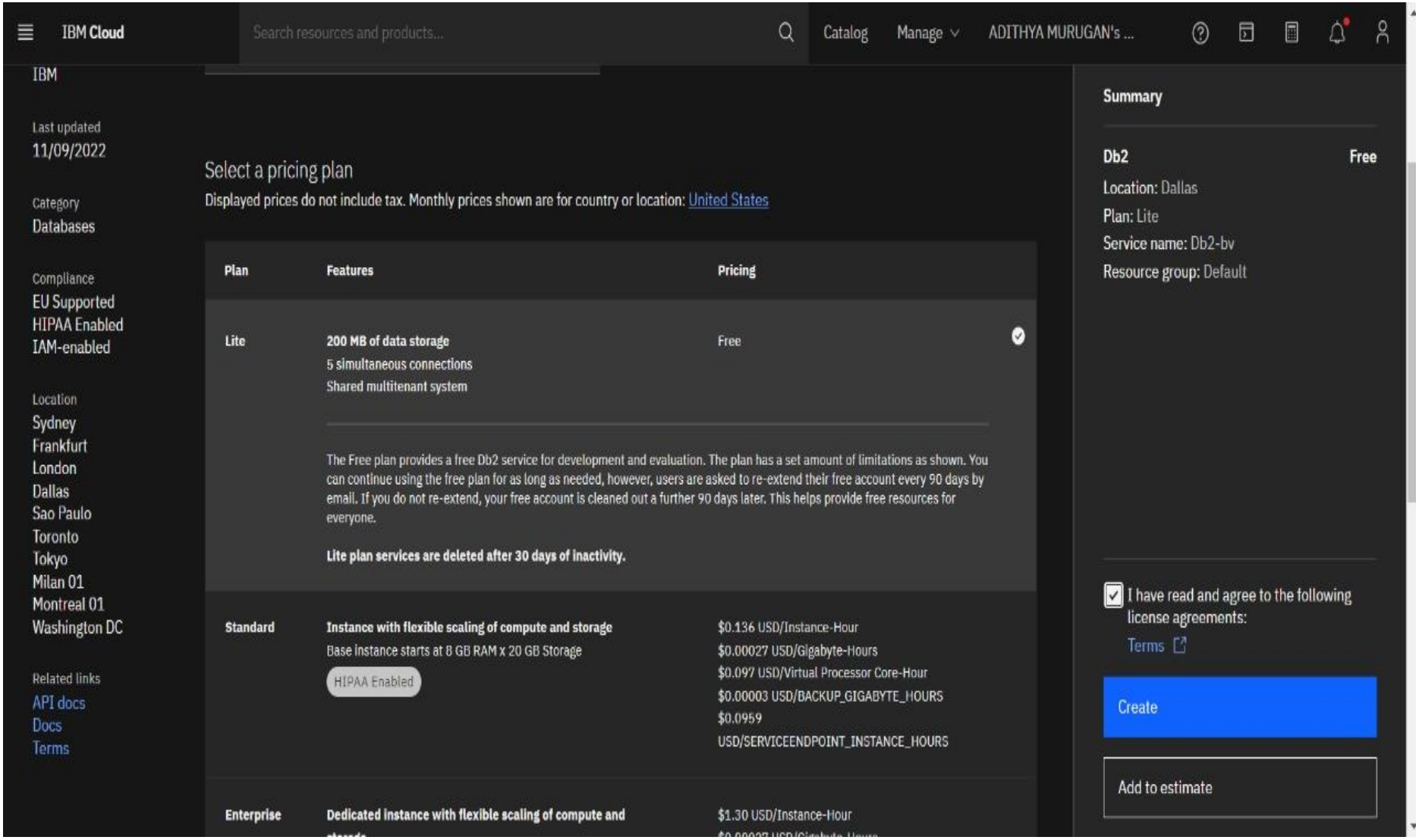
Upgrade
Add to estimate


IBM Cloud
Search resources and products...
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IBM
Last updated
11/09/2022
Category
Databases
Compliance
EU Supported
HIPAA Enabled
IAM-enabled
Location
Sydney
Frankfurt
London
Dallas
Sao Paulo
Toronto
Tokyo
Milan 01
Montreal 01
Washington DC
Related links
API docs
Docs
Terms
Select a pricing plan
Displayed prices do not include tax. Monthly prices shown are for country or location: United States
Plan
Features
Pricing
Lite
200 MB of data storage
5 simultaneous connections
Shared multitenant system
Free
The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limitations as shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend their free account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later. This helps provide free resources for everyone.
Lite plan services are deleted after 30 days of inactivity.
Standard
Instance with flexible scaling of compute and storage
Base instance starts at 8 GB RAM x 20 GB Storage
HIPAA Enabled
$0.136 USD/Instance-Hour
$0.00027 USD/Gigabyte-Hours
$0.097 USD/Virtual Processor Core-Hour
$0.00003 USD/BACKUP_GIGABYTE_HOURS
$0.0959
USD/SERVICEENDPOINT_INSTANCE_HOURS
Enterprise
Dedicated instance with flexible scaling of compute and
$1.30 USD/Instance-Hour
Summary
Db2
Free
Location: Dallas
Plan: Lite
Service name: Db2-bv
Resource group: Default
I have read and agree to the following license agreements:
Terms
Create
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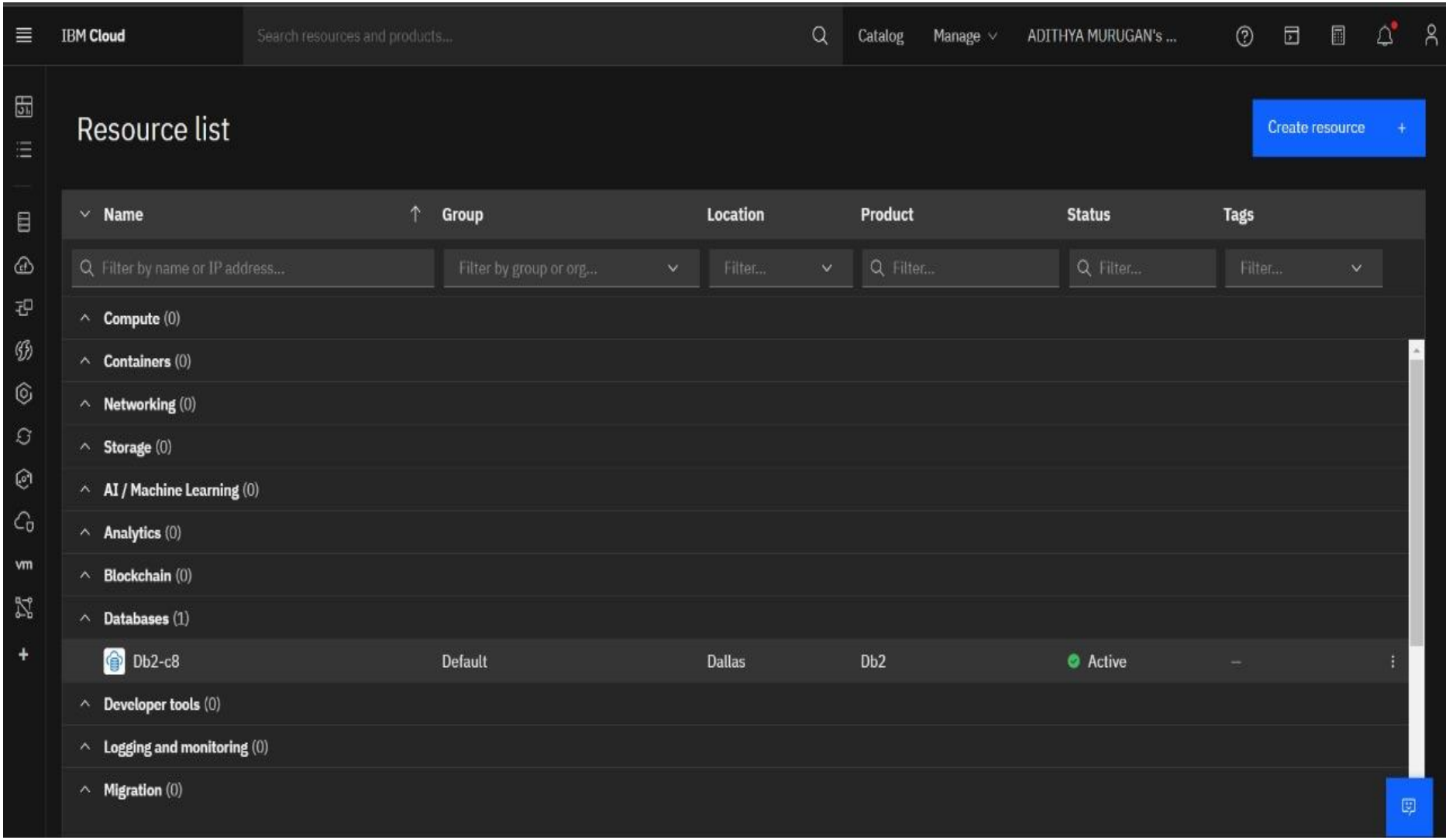
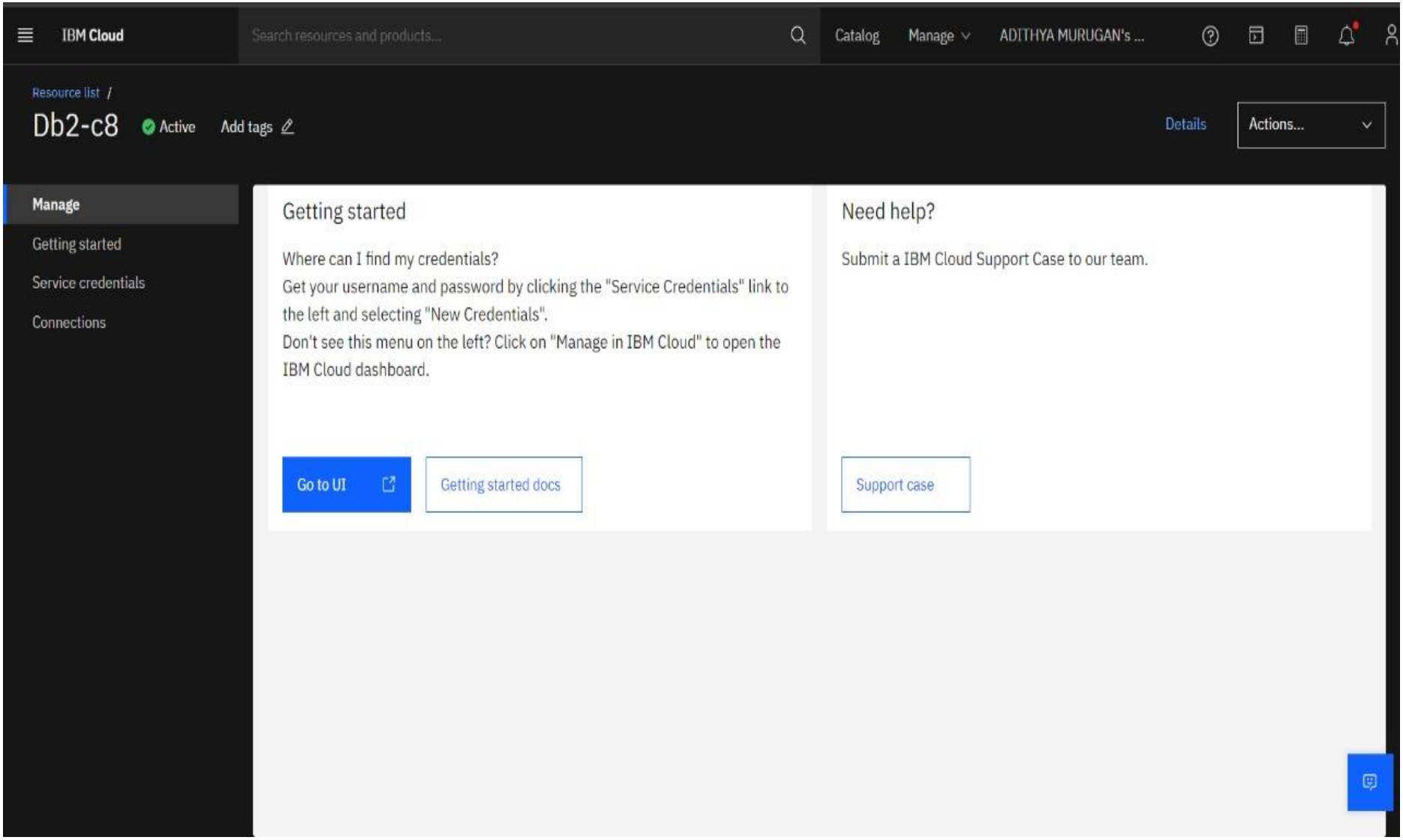
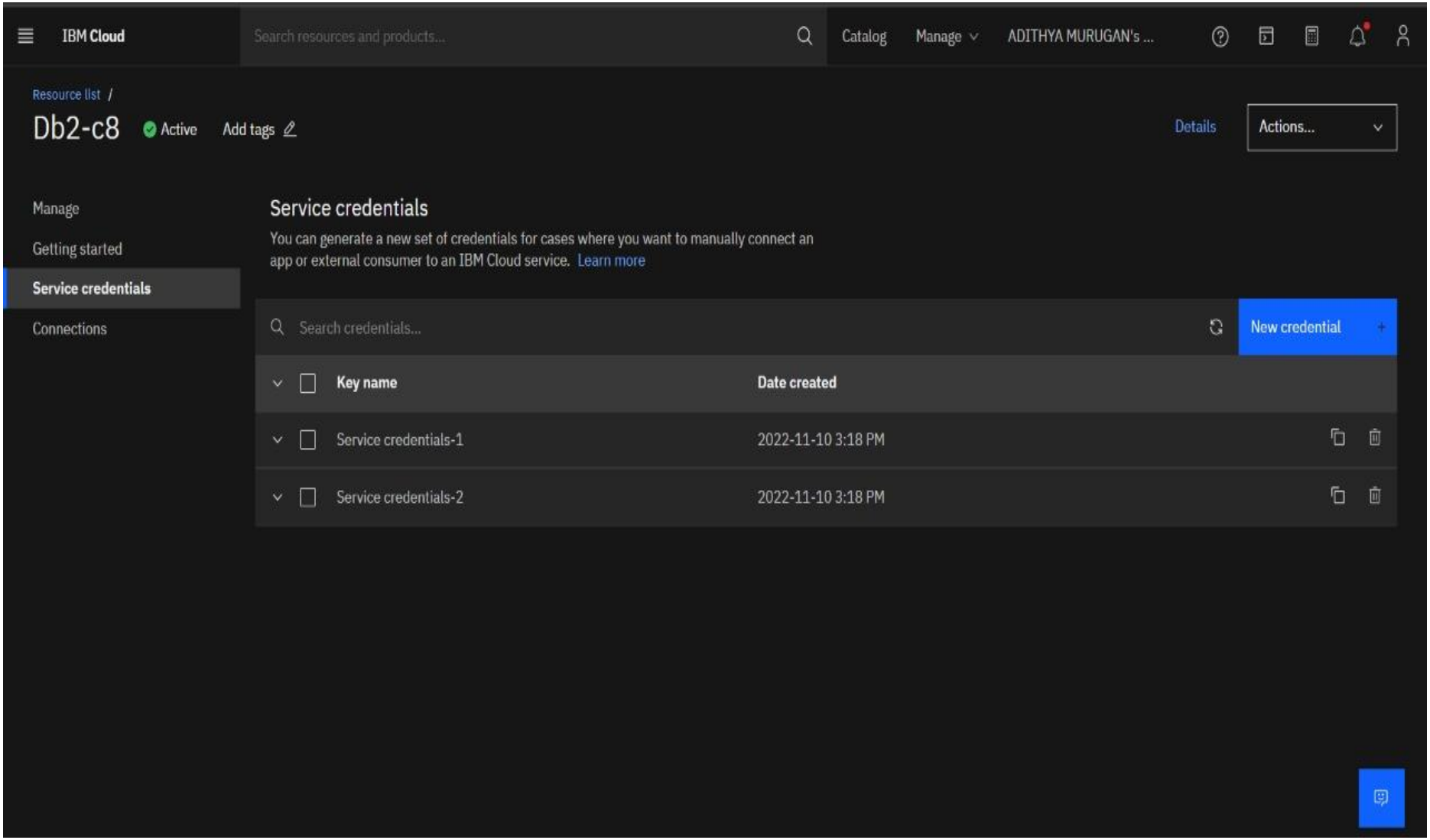
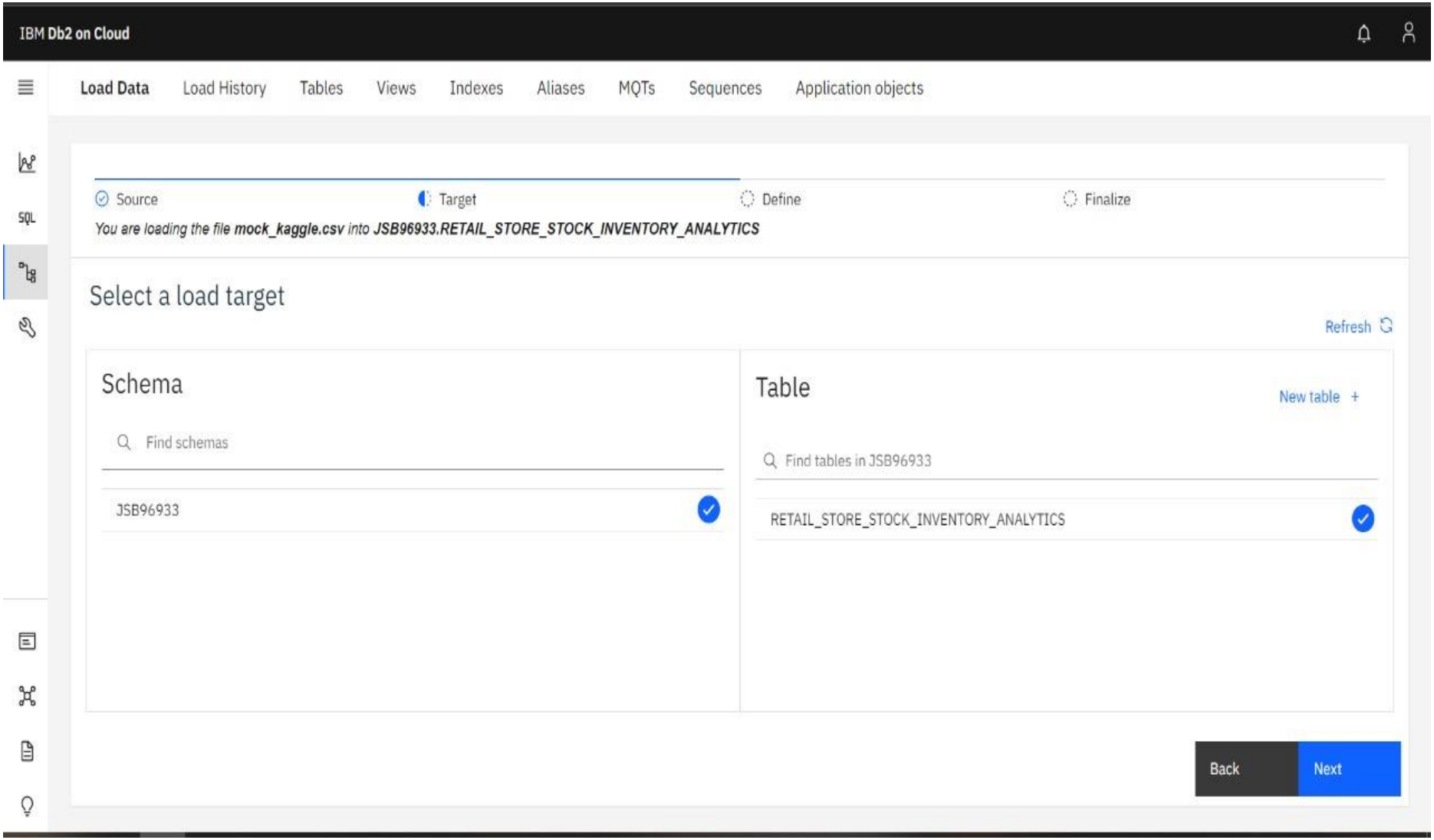
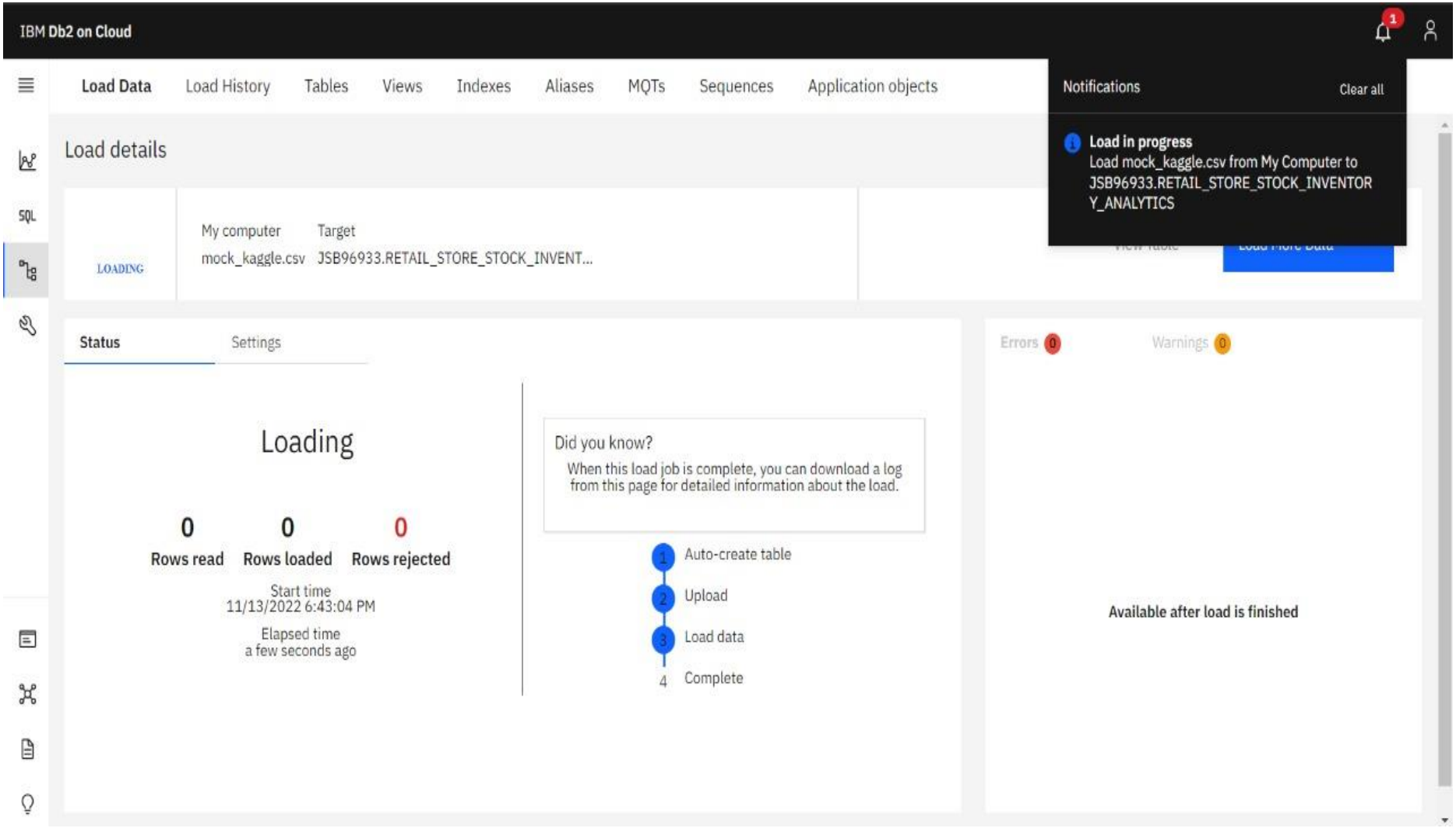
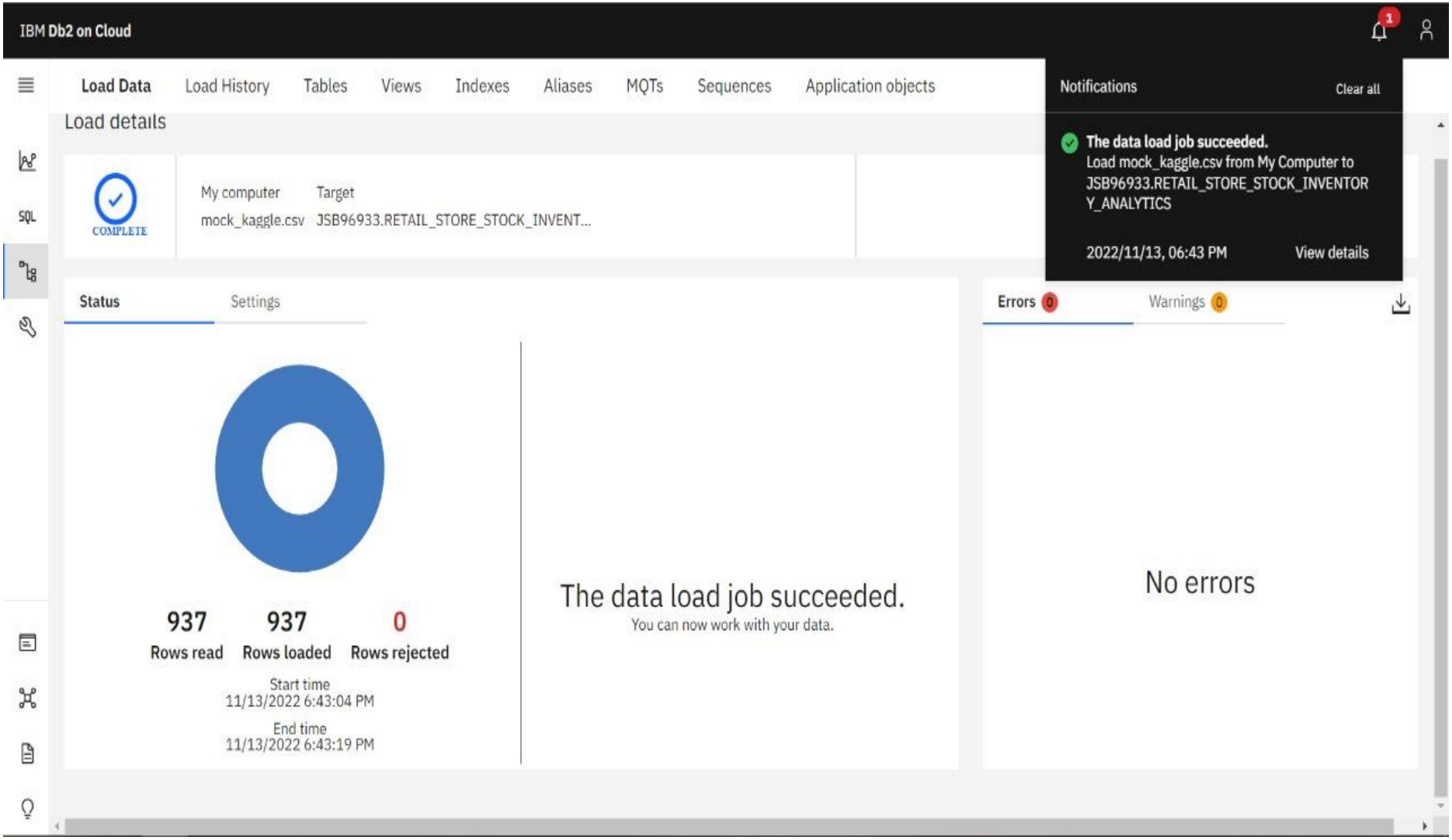

IBM Cloud
Search resources and products...
Catalog
Manage
ADITHYA MURUGAN's ...
Resource list
Create resource
Name
Group
Location
Product
Status
Tags
Filter by name or IP address...
Filter by group or org...
Filter...
Filter...
Filter...
Filter...
Compute (0)
Containers (0)
Networking (0)
Storage (0)
AI / Machine Learning (0)
Analytics (0)
Blockchain (0)
Databases (1)
Db2-c8
Default
Dallas
Db2
Active
Developer tools (0)
Logging and monitoring (0)
Migration (0)

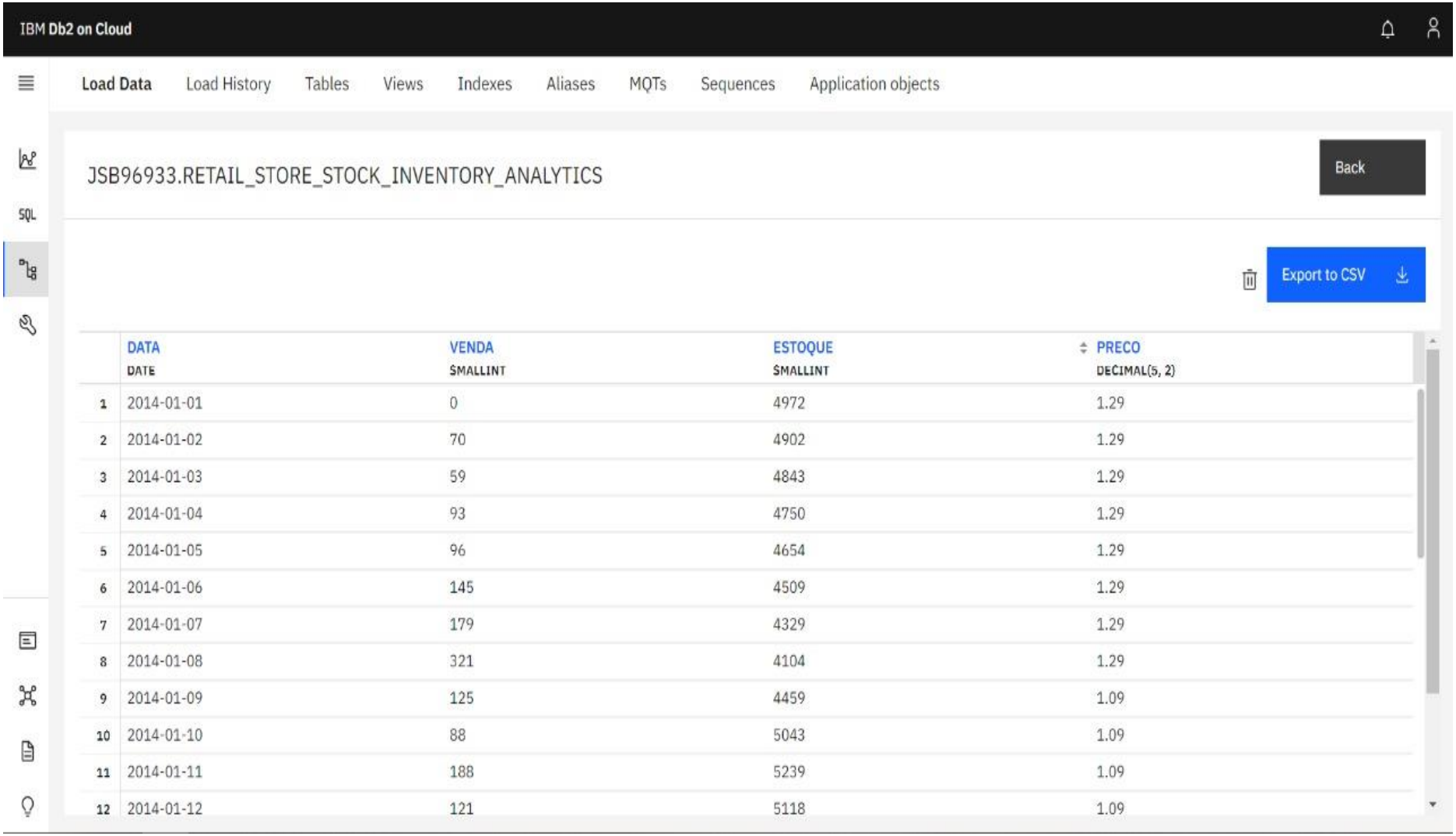

IBM Cloud
Search resources and products...
Catalog
Manage
ADITHYA MURUGAN's ...
Resource list /
Db2-c8
Active
Add tags
Details
Actions...
Manage
Getting started
Service credentials
Connections
Getting started
Where can I find my credentials?
Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.
Go to UI
Getting started docs
Need help?
Submit a IBM Cloud Support Case to our team.
Support case


IBM Cloud
Search resources and products...
Catalog
Manage
ADITHYA MURUGAN's ...
Resource list /
Db2-c8
Active
Add tags
Details
Actions...
Manage
Getting started
Service credentials
Connections
Service credentials
You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. Learn more
Search credentials...
New credential
Key name
Date created
Service credentials-1
2022-11-10 3:18 PM
Service credentials-2
2022-11-10 3:18 PM


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
SQL
Source
Target
Define
Finalize
You are loading the file mock_kaggle.csv into JSB96933.RETAIL_STORE_STOCK_INVENTORY_ANALYTICS
Select a load target
Refresh
Schema
Find schemas
JSB96933
Table
New table +
Find tables in JSB96933
RETAIL_STORE_STOCK_INVENTORY_ANALYTICS
Back
Next


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Notifications
Clear all
Load in progress
Load mock_kaggle.csv from My Computer to JSB96933.RETAIL_STORE_STOCK_INVENTORY_ANALYTICS
Load details
LOADING
My computer
mock_kaggle.csv
Target
JSB96933.RETAIL_STORE_STOCK_INVENT...
Status
Settings
Loading
0
Rows read
0
Rows loaded
0
Rows rejected
Start time
11/13/2022 6:43:04 PM
Elapsed time
a few seconds ago
Did you know?
When this load job is complete, you can download a log from this page for detailed information about the load.
1 Auto-create table
2 Upload
3 Load data
4 Complete
Errors 0
Warnings 0
Available after load is finished

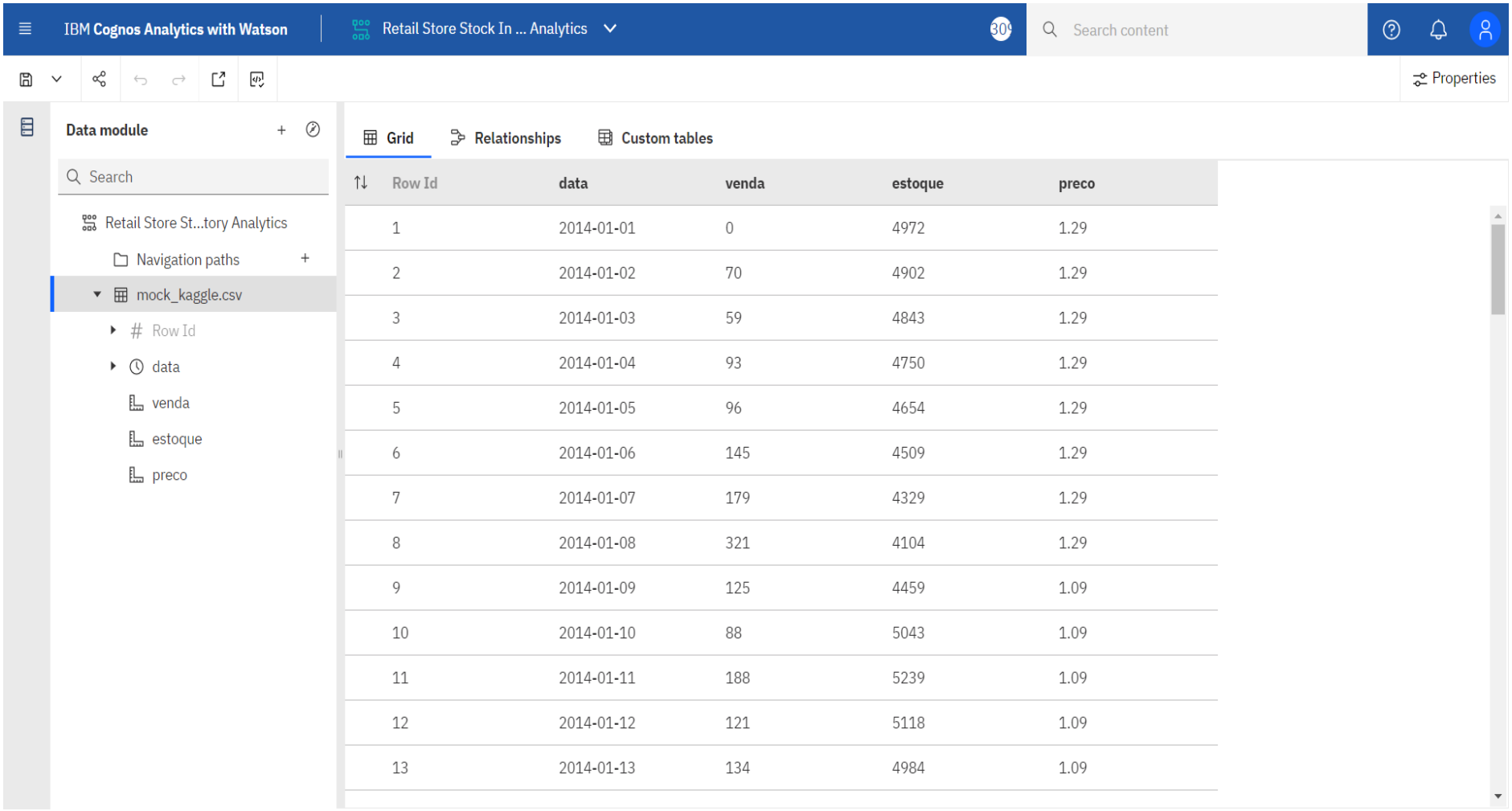

IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Load details
COMPLETE
My computer
mock_kaggle.csv
Target
JSB96933.RETAIL_STORE_STOCK_INVENT...
Notifications
Clear all
The data load job succeeded.
Load mock_kaggle.csv from My Computer to JSB96933.RETAIL_STORE_STOCK_INVENTORY_ANALYTICS
2022/11/13, 06:43 PM
View details
Status
Settings
937
Rows read
937
Rows loaded
0
Rows rejected
Start time
11/13/2022 6:43:04 PM
End time
11/13/2022 6:43:19 PM
The data load job succeeded.
You can now work with your data.
Errors
Warnings
No errors



	DATA DATE	VENDA SMALLINT	ESTOQUE SMALLINT	PRECO DECIMAL(5, 2)
1	2014-01-01	0	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	59	4843	1.29
4	2014-01-04	93	4750	1.29
5	2014-01-05	96	4654	1.29
6	2014-01-06	145	4509	1.29
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09

Data Preparation:

Prepare the Dataset



Row Id	data	venda	estoque	preco
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2	2014-01-02	70	4902	1.29
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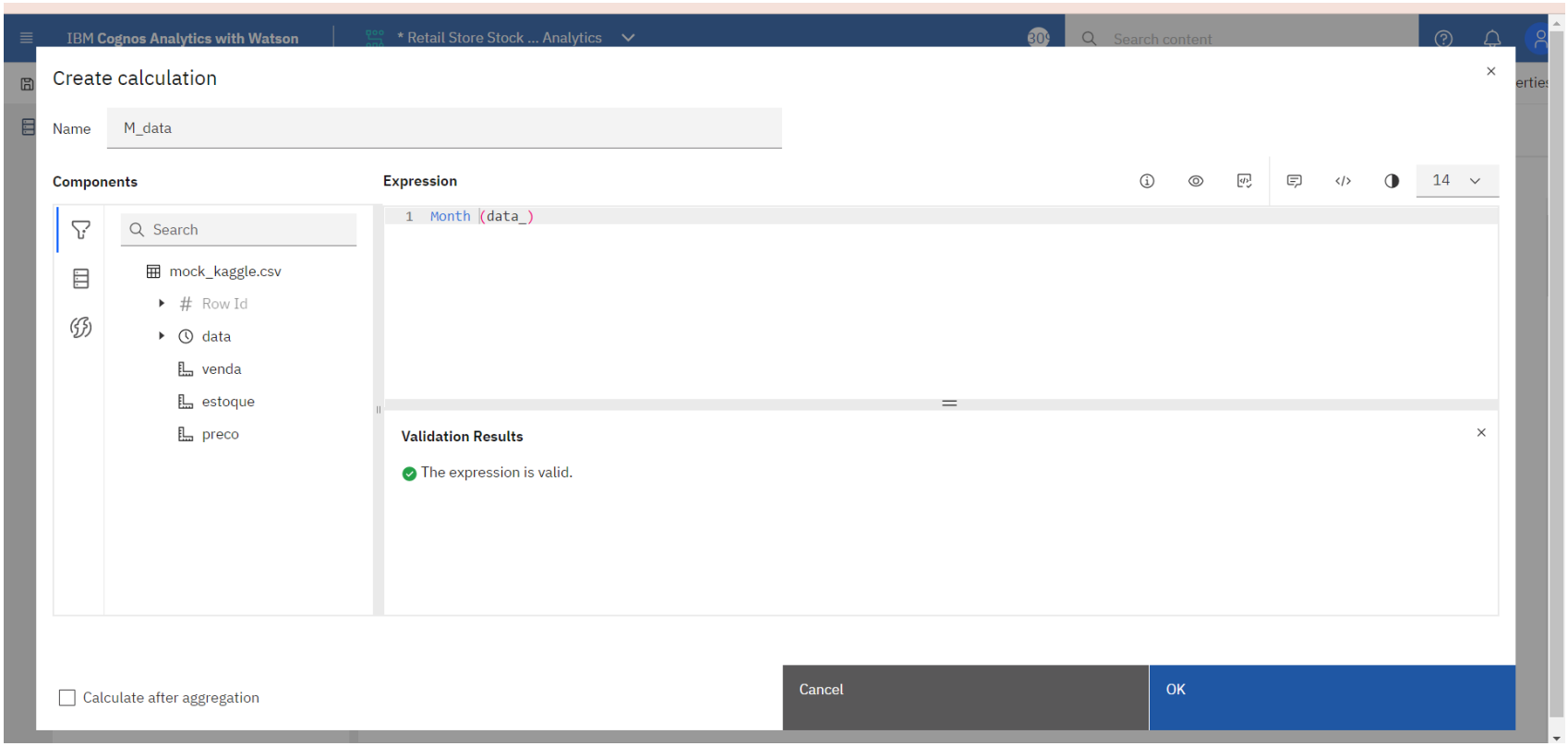
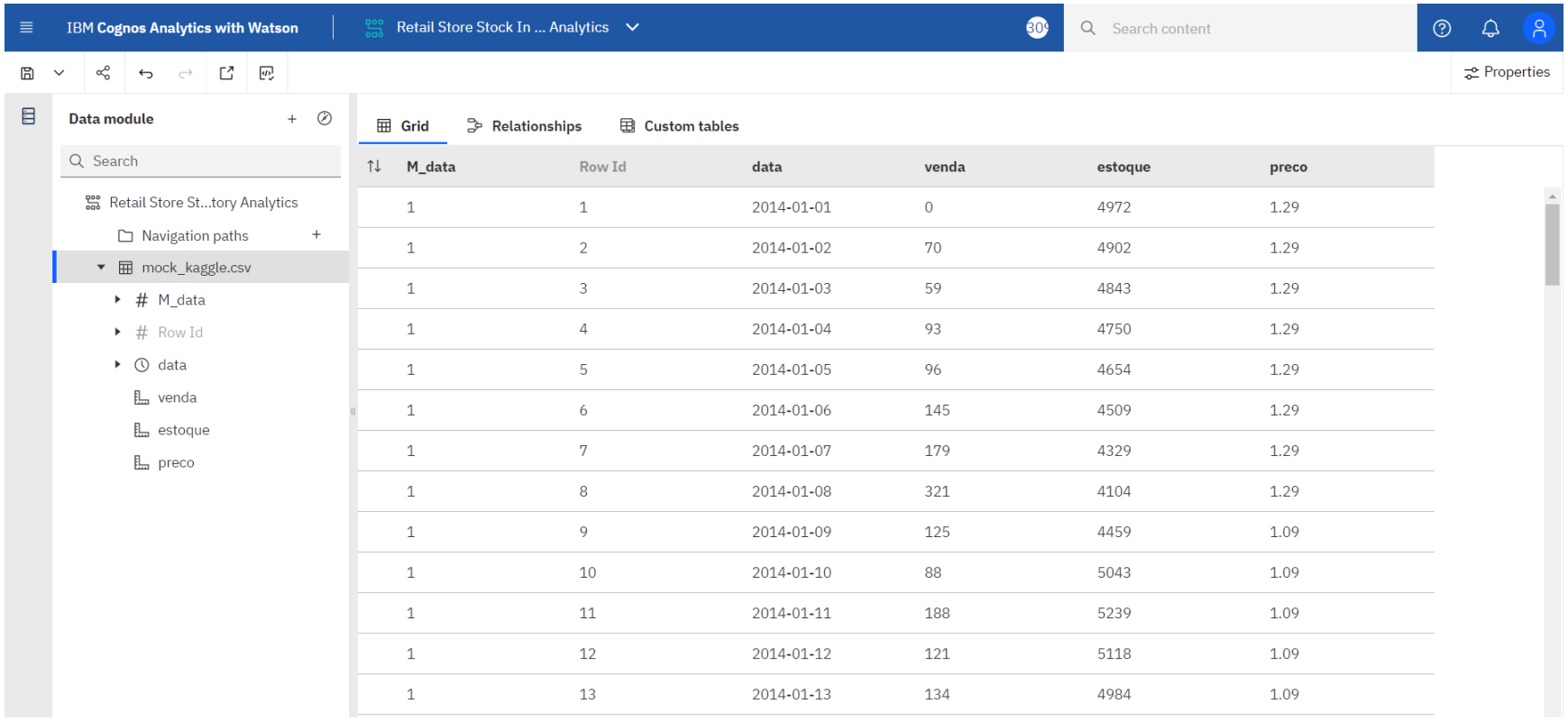
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4984	1.09

Month data:


IBM Cognos Analytics with Watson
* Retail Store Stock ... Analytics
Search content
Create calculation
Name
M_data
Components
Expression
14
Search
mock_kaggle.csv
Row Id
data
venda
estoque
preco
1 Month (data_)
Validation Results
The expression is valid.
Calculate after aggregation
Cancel
OK



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1	6	2014-01-06	145	4509	1.29
1	7	2014-01-07	179	4329	1.29
1	8	2014-01-08	321	4104	1.29
1	9	2014-01-09	125	4459	1.09
1	10	2014-01-10	88	5043	1.09
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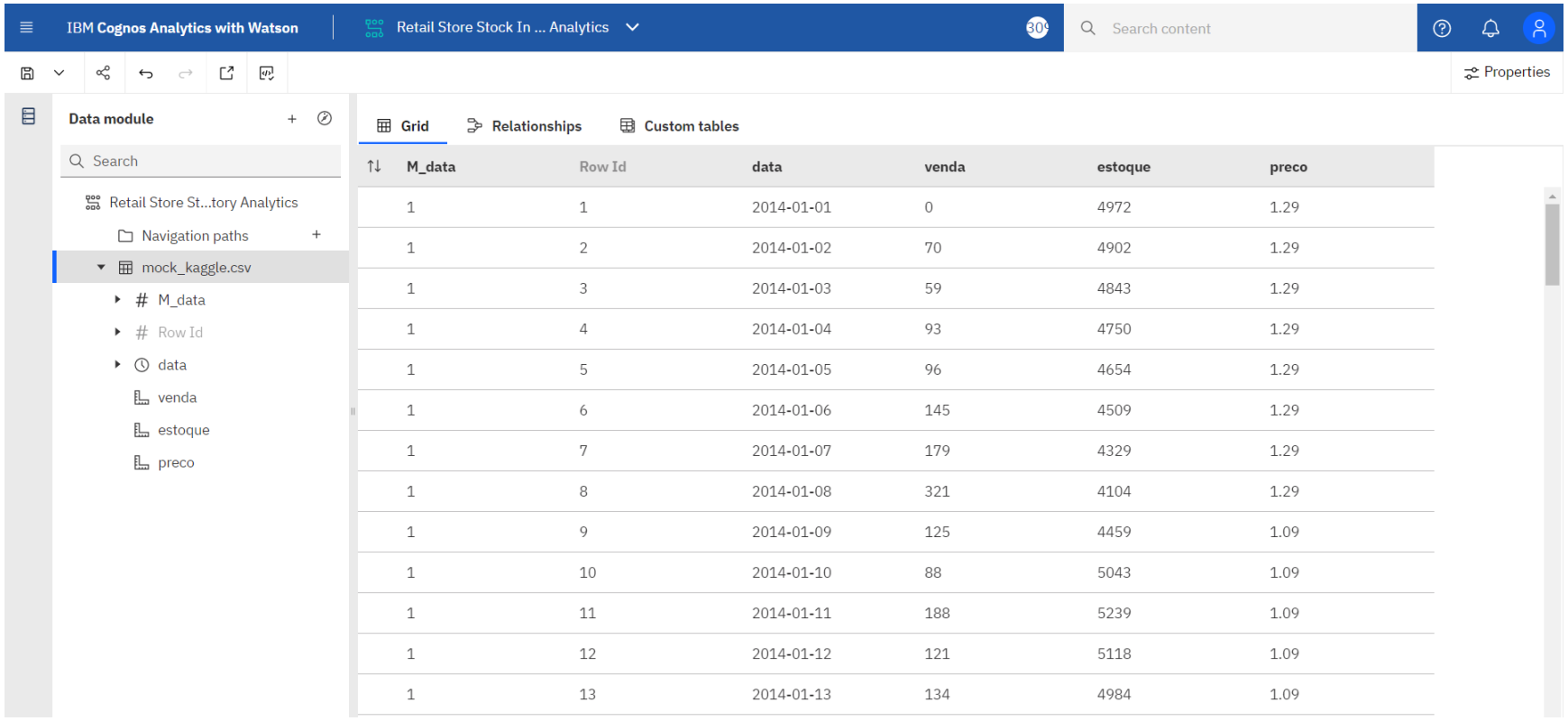

M_data	Row Id	data	venda	estoque	preco
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1	10	2014-01-10	88	5043	1.09
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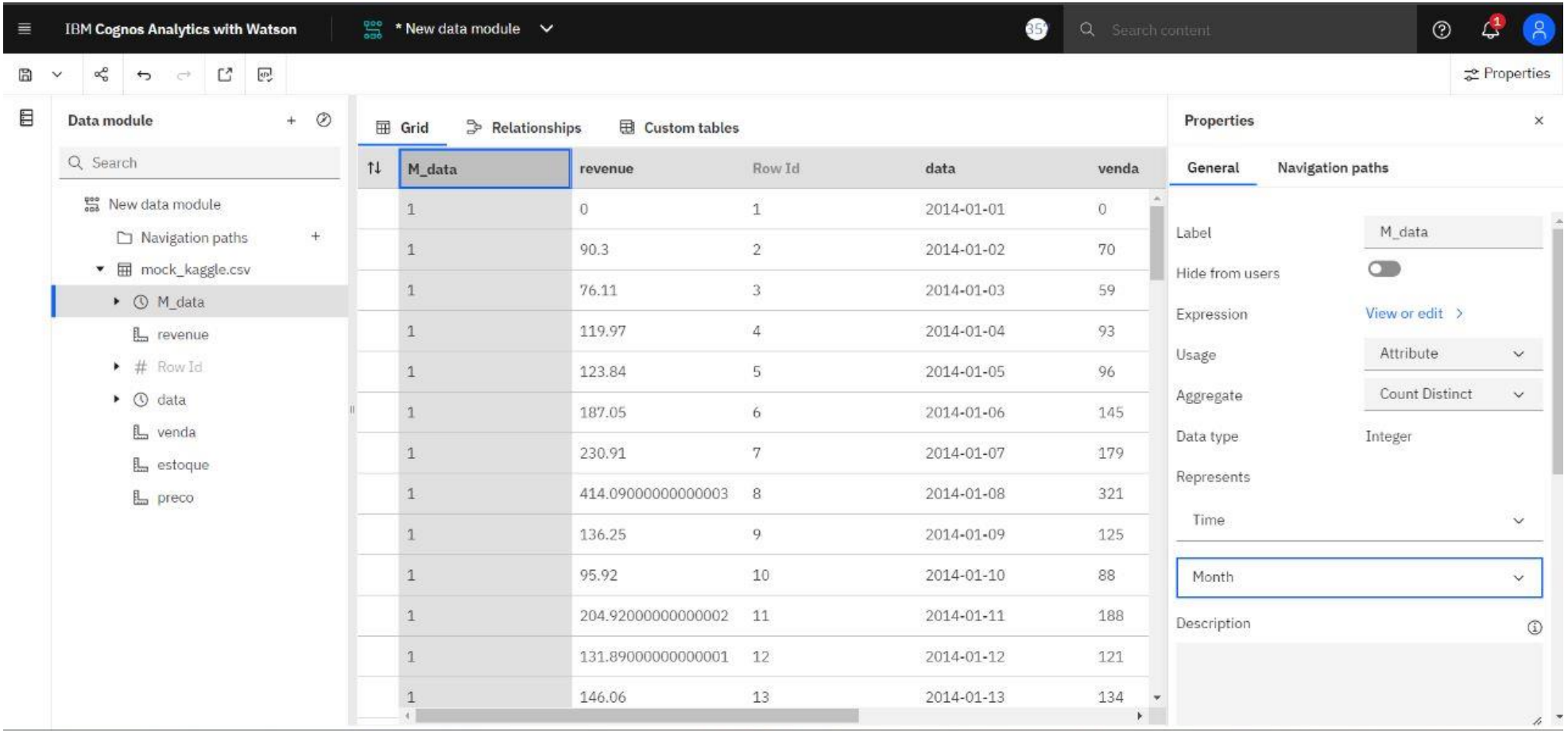
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Data type
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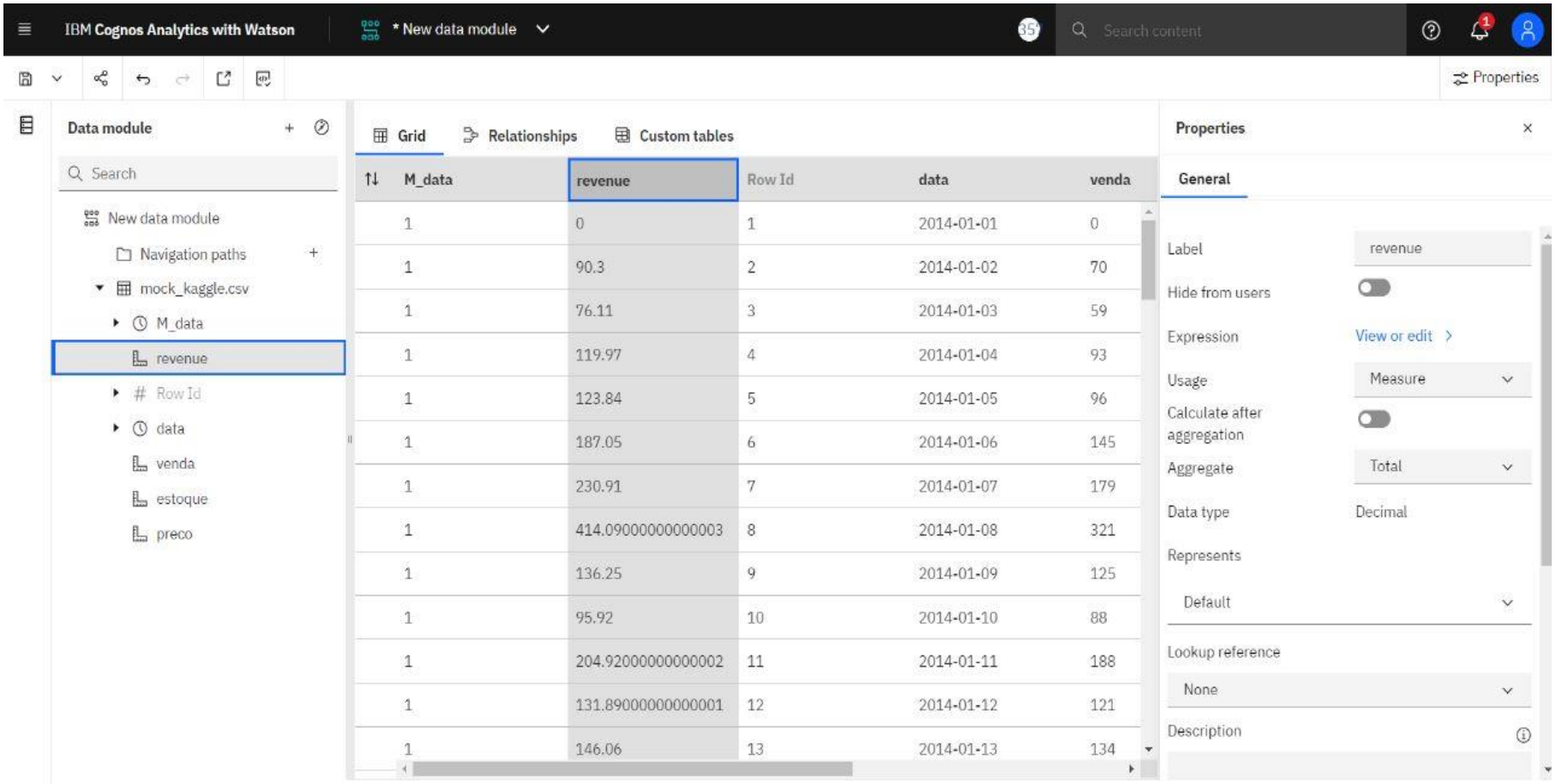
Month
Description

Revenue data:



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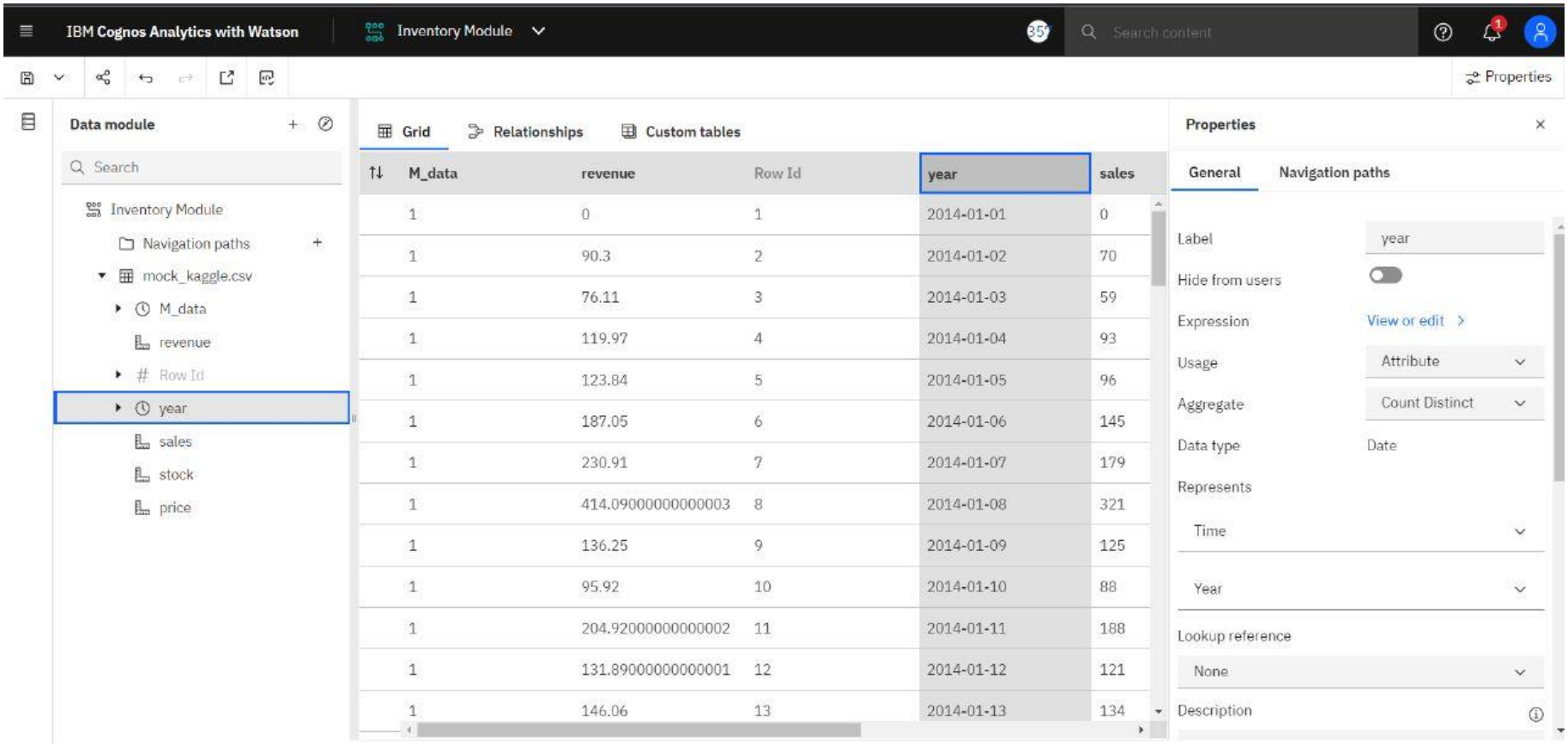
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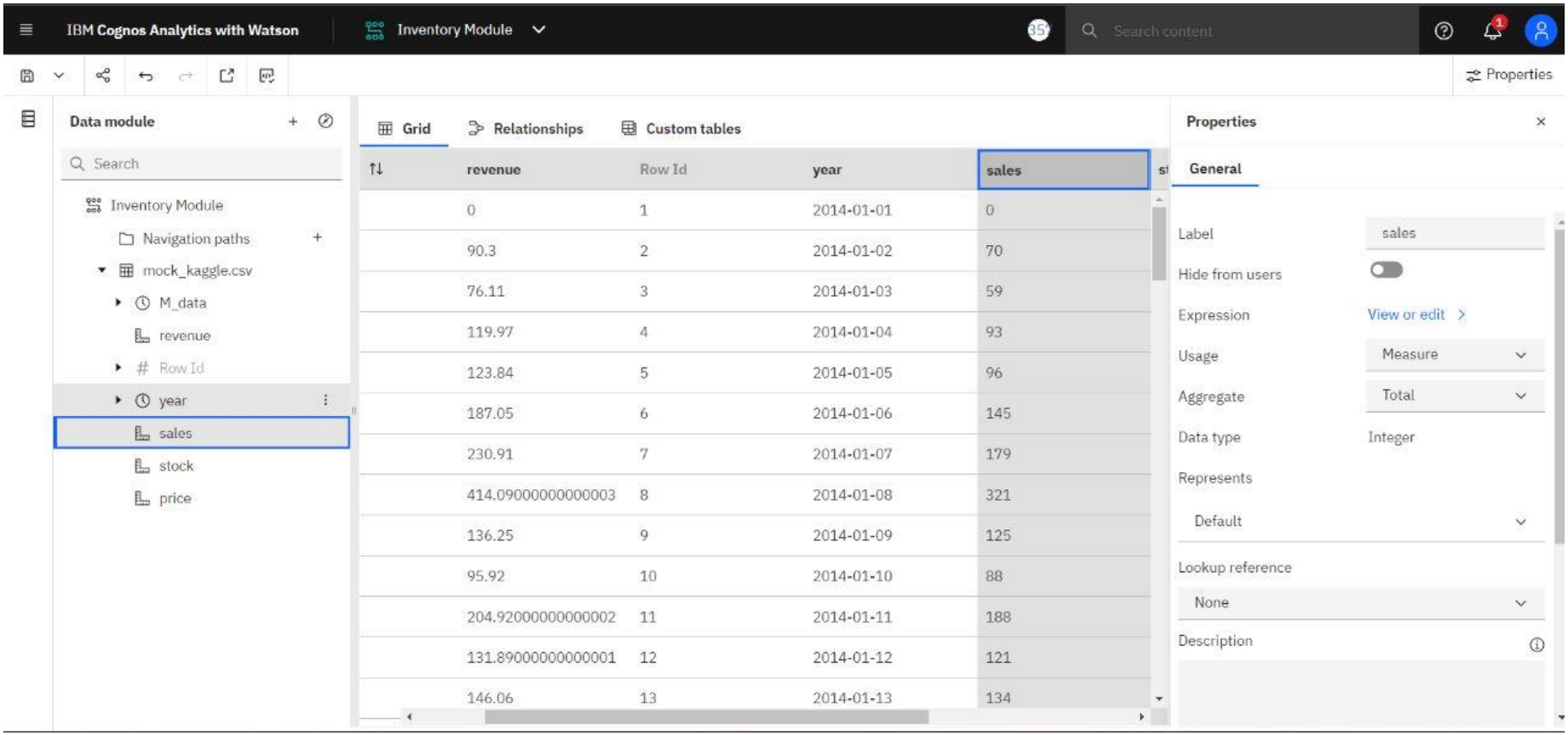
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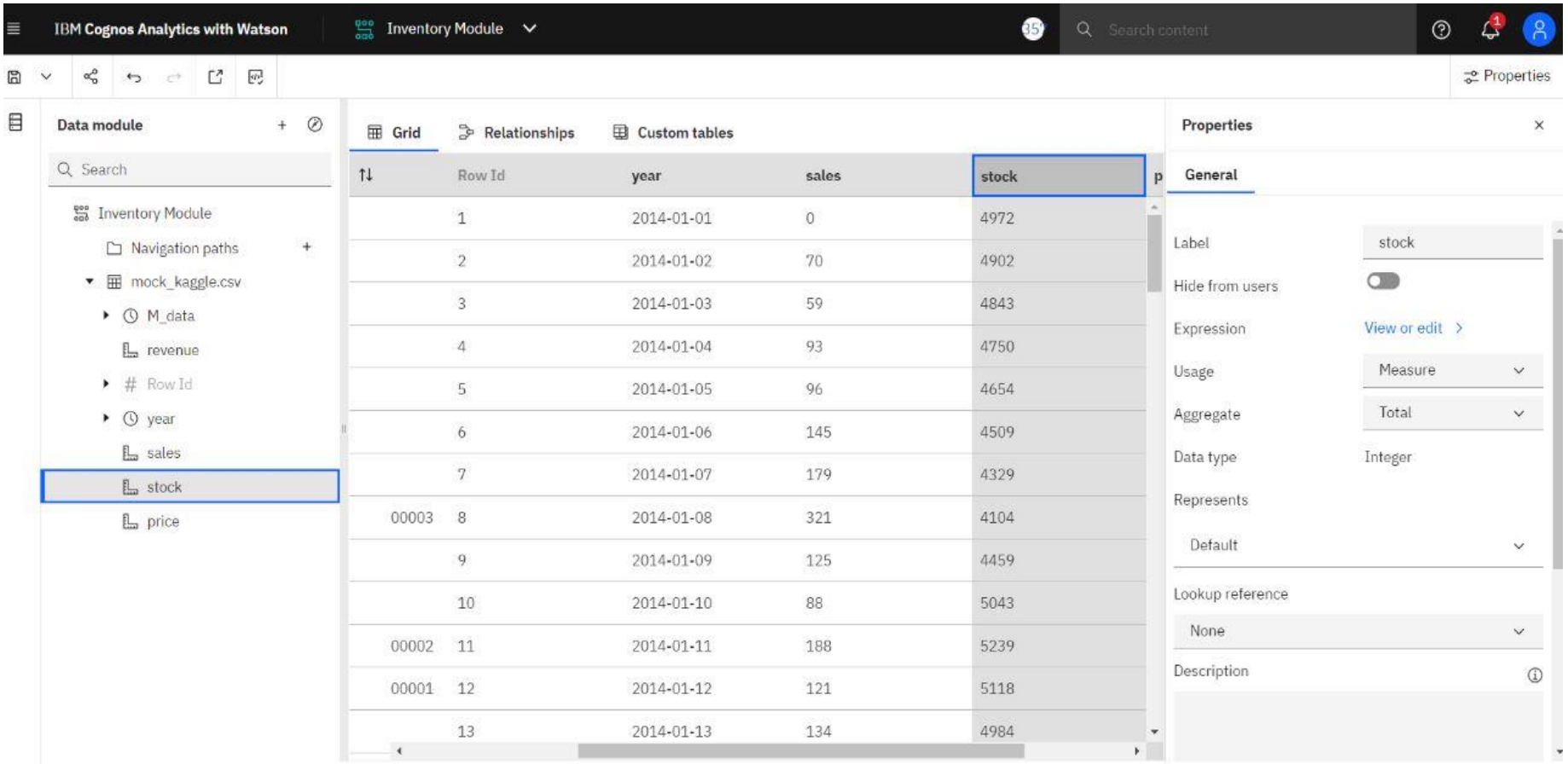
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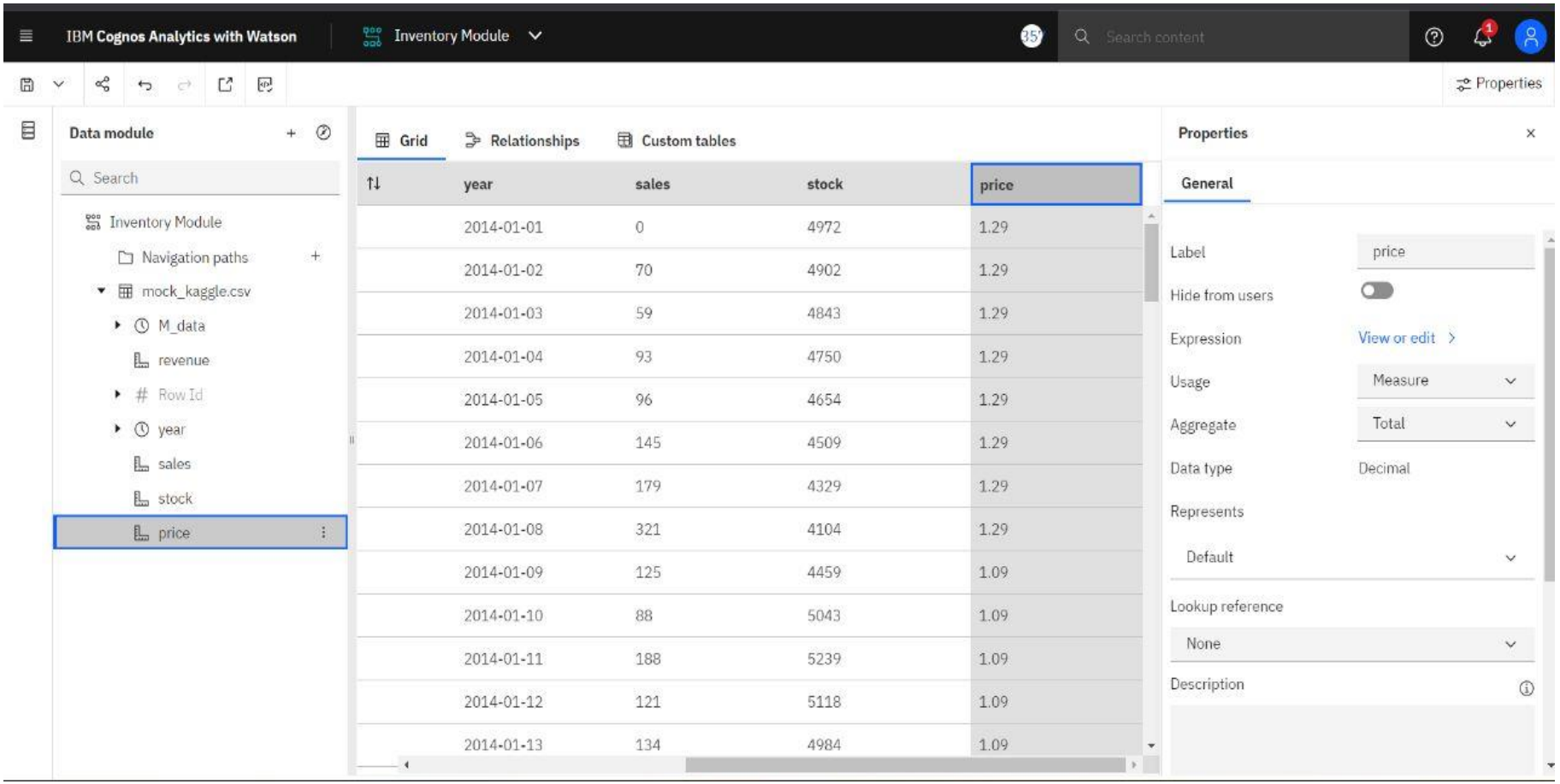
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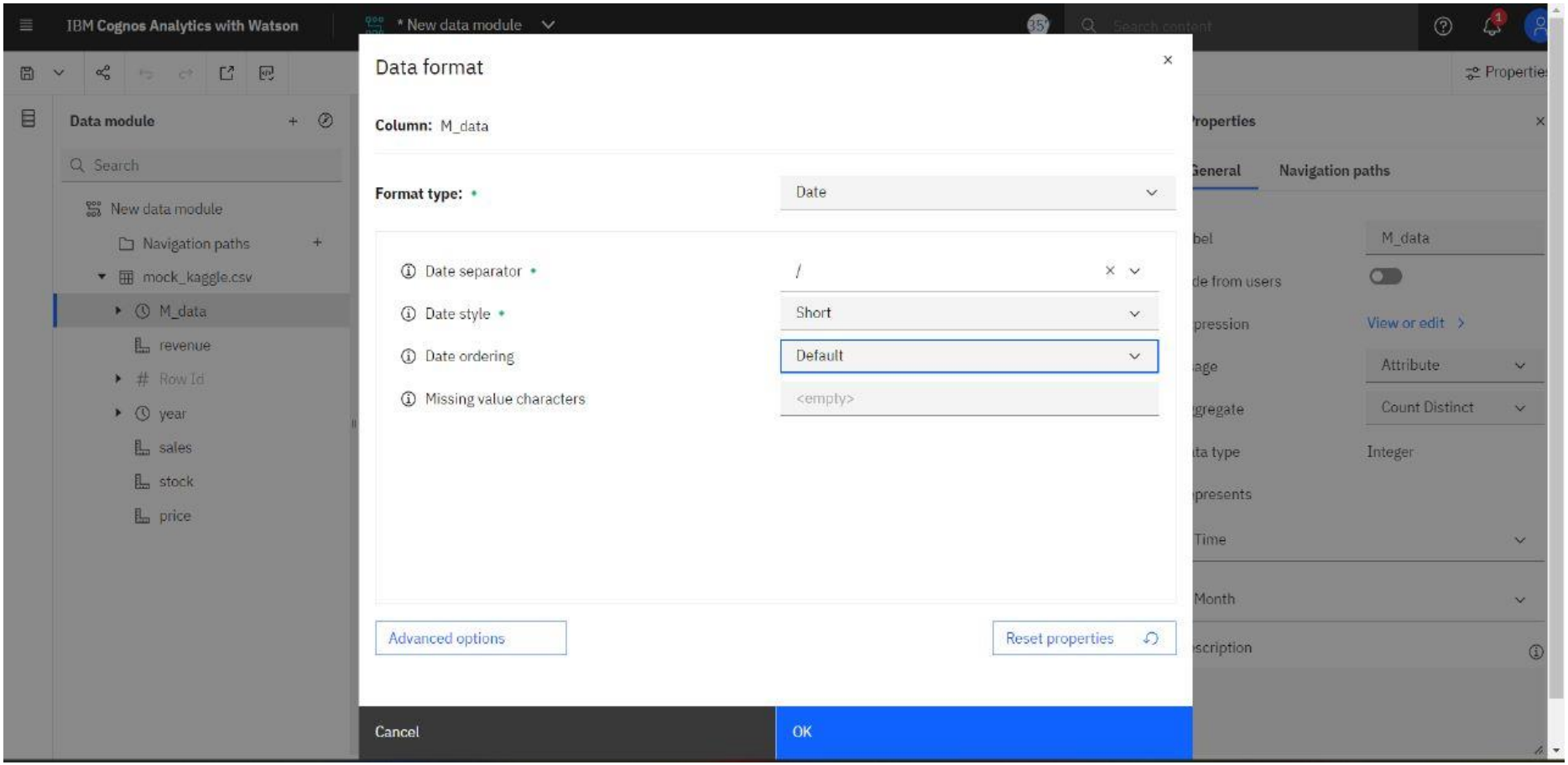

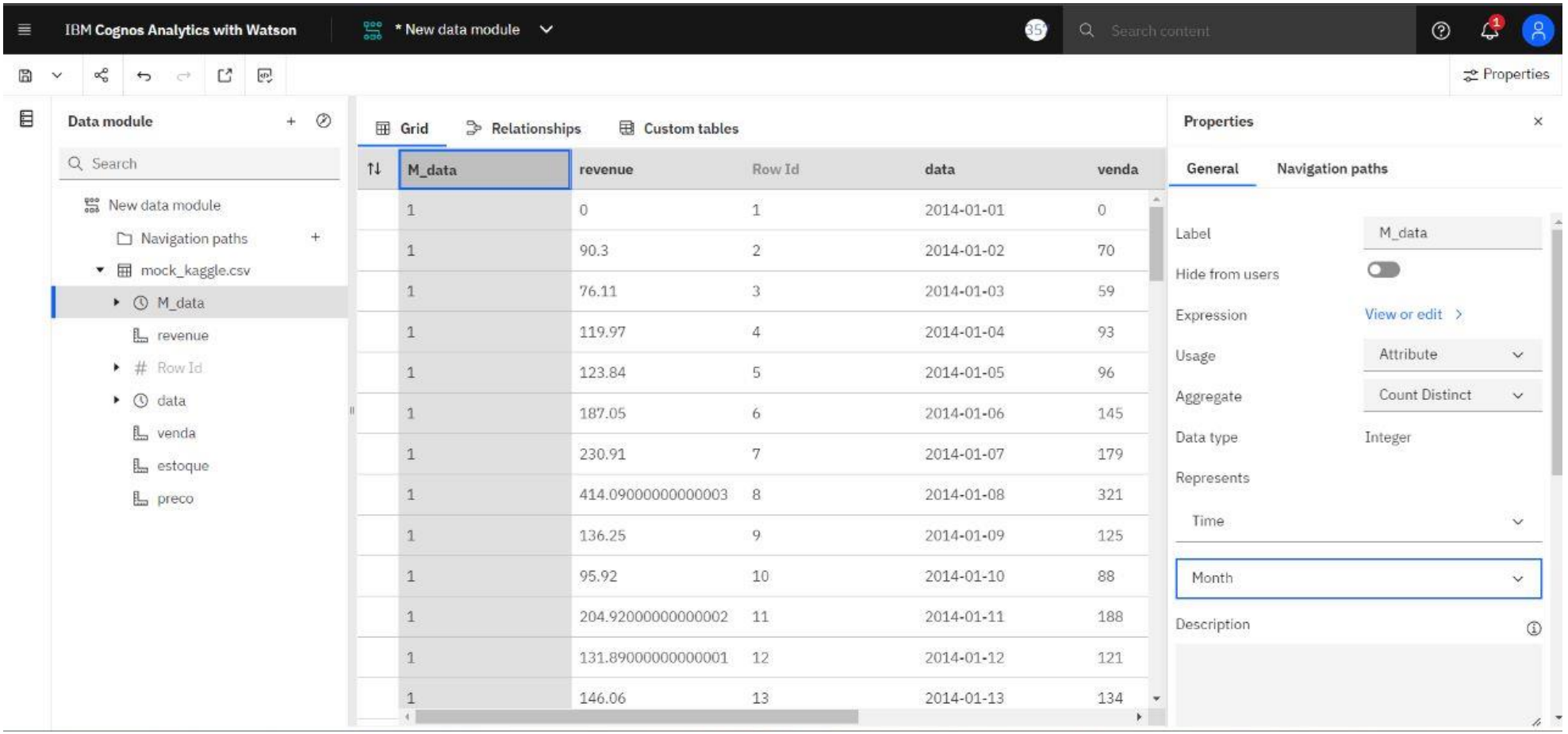
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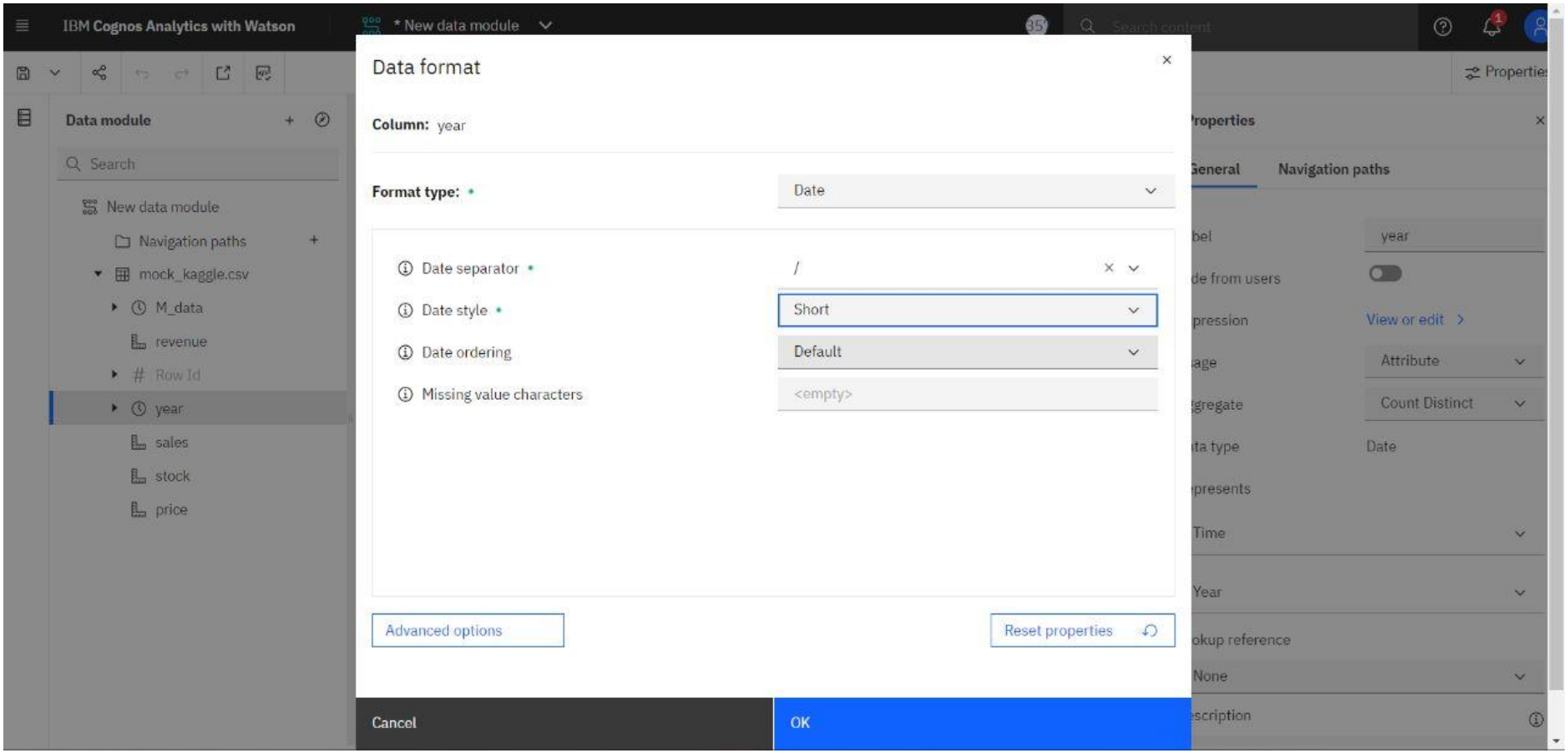

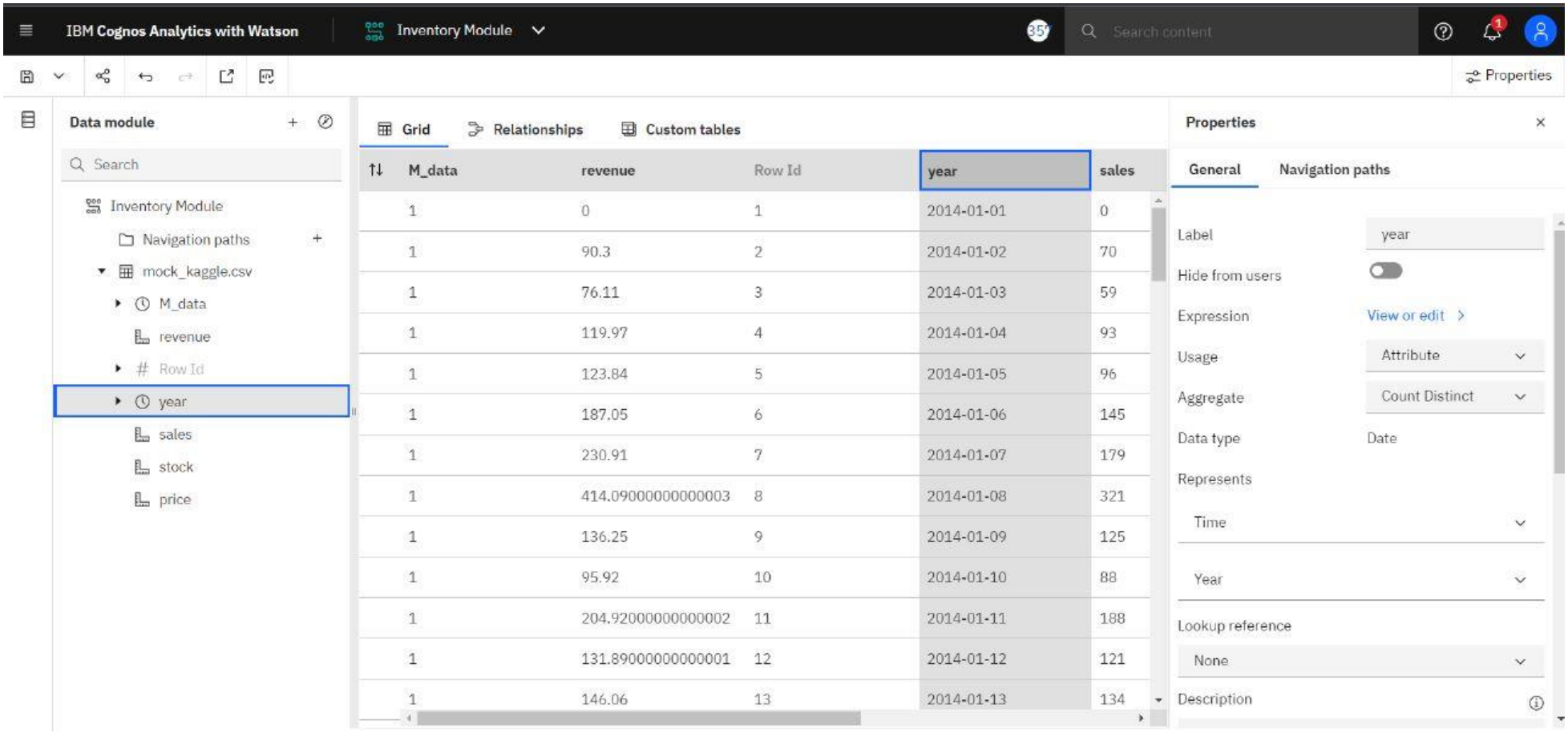
IBM Cognos Analytics with Watson
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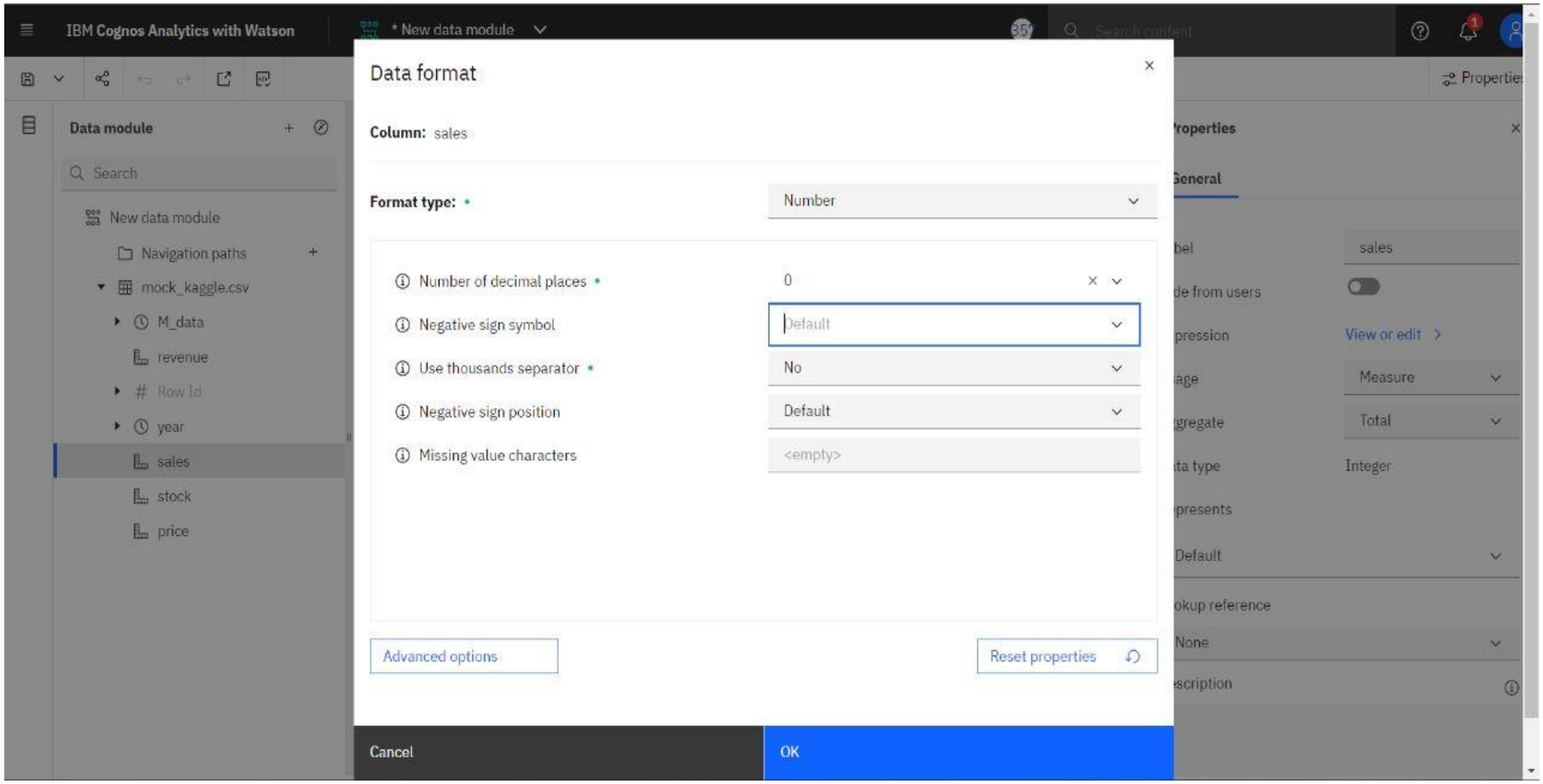

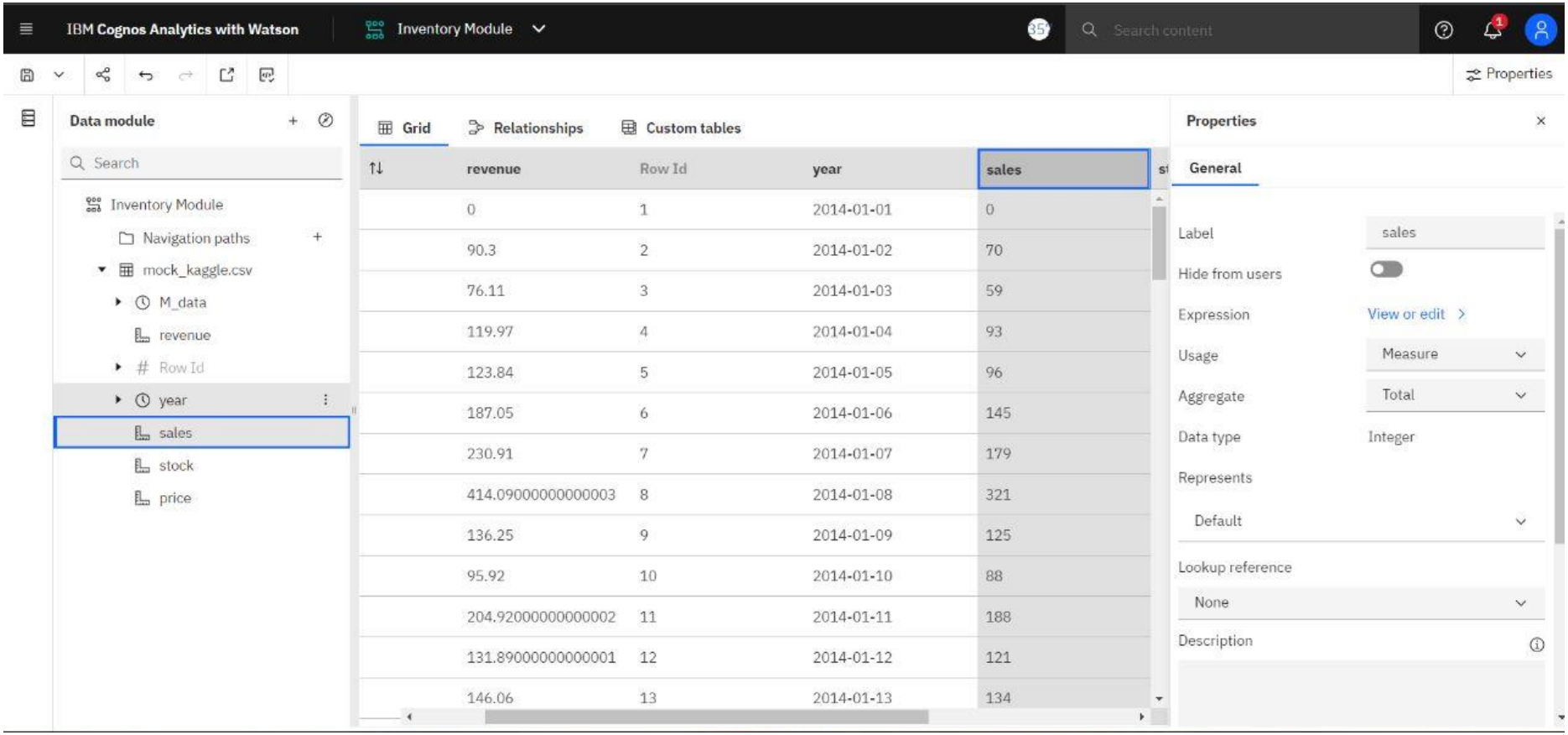
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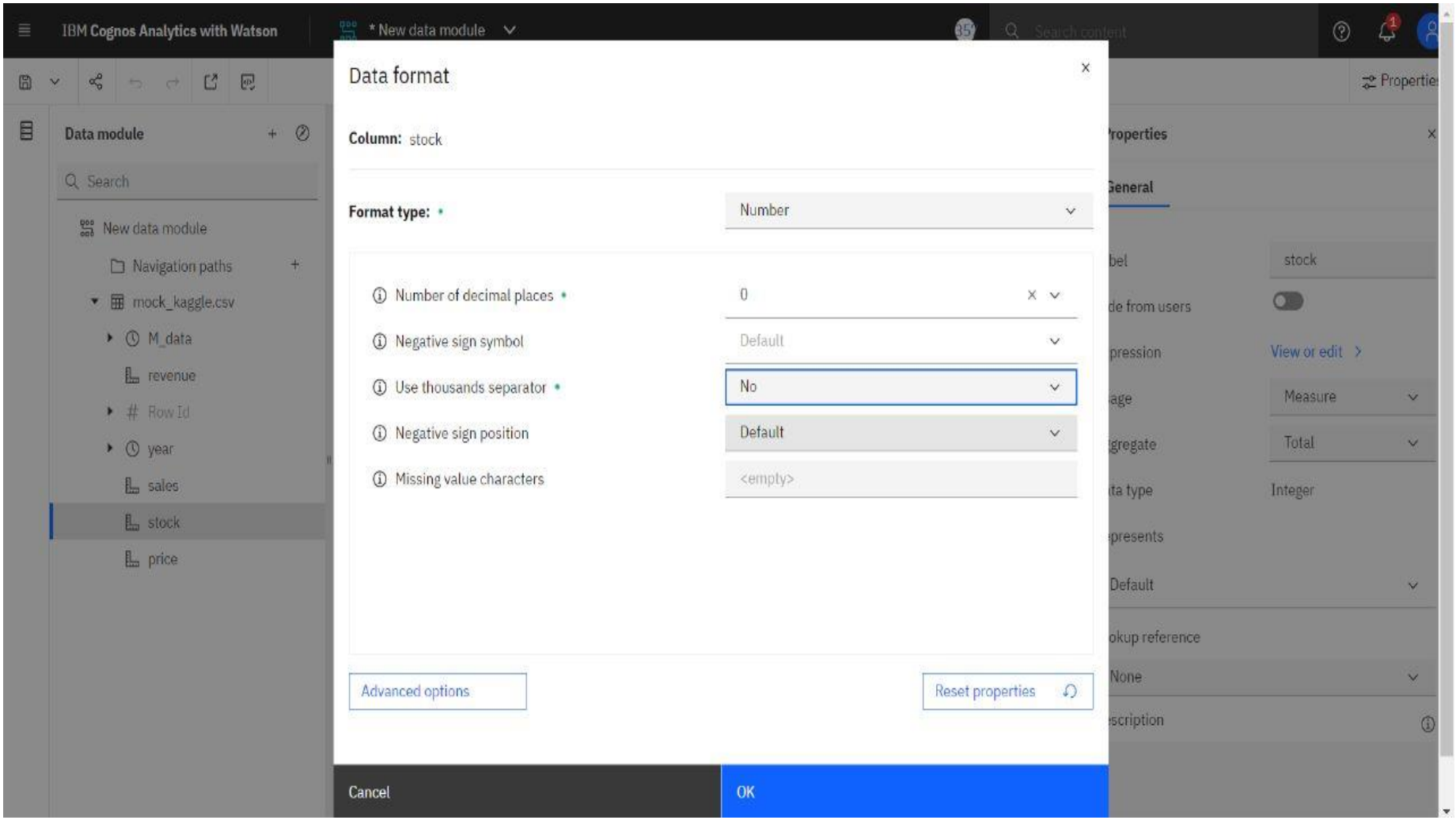

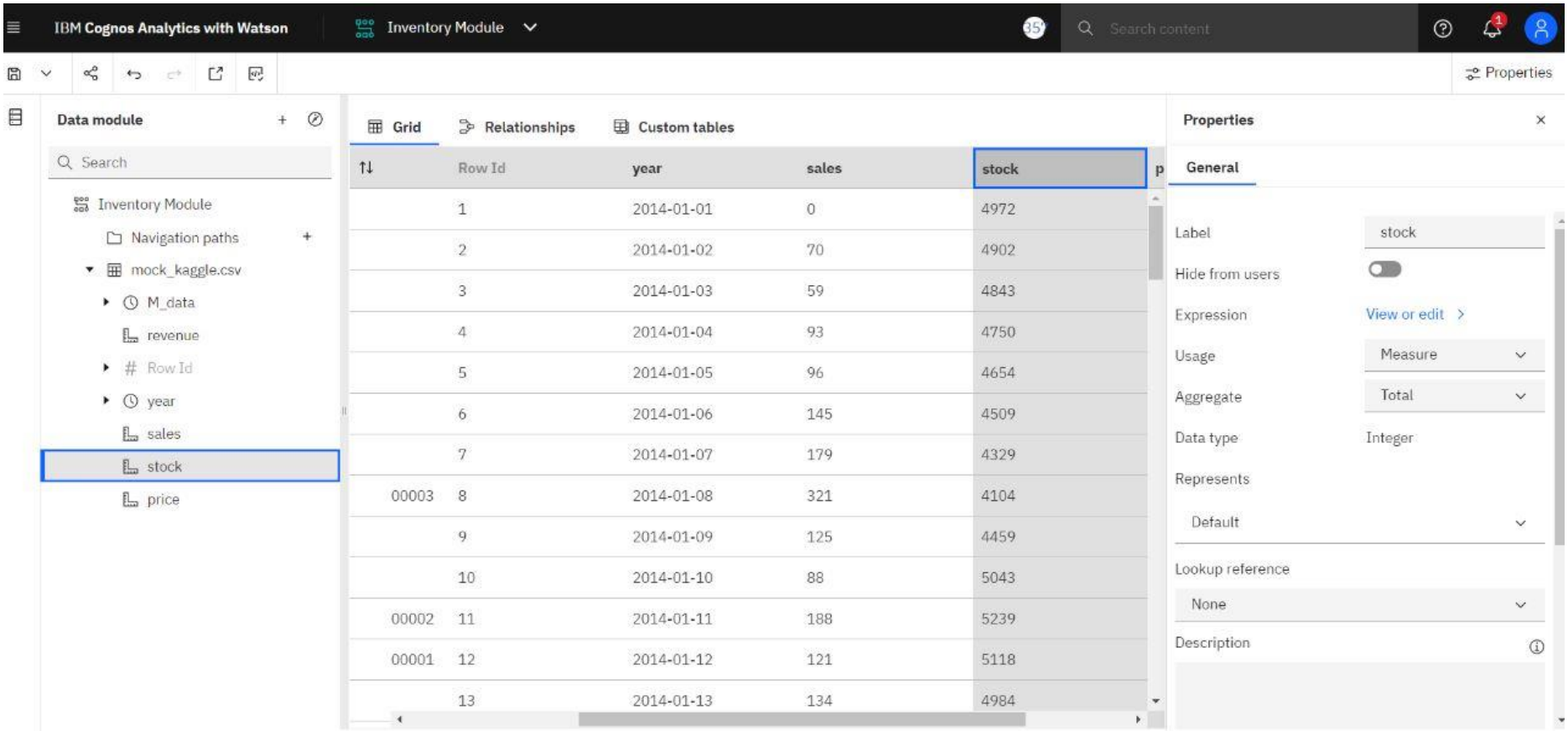
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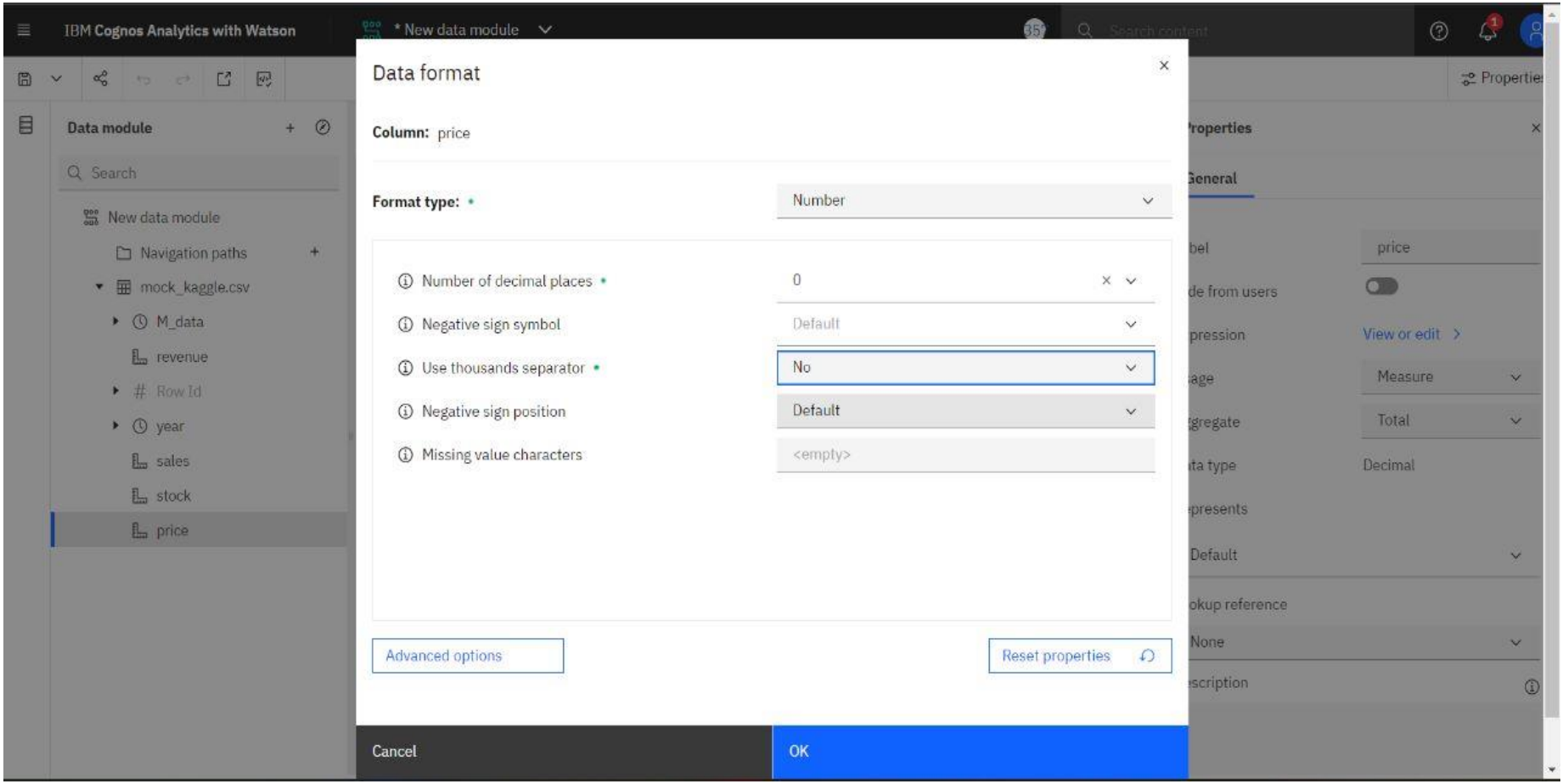

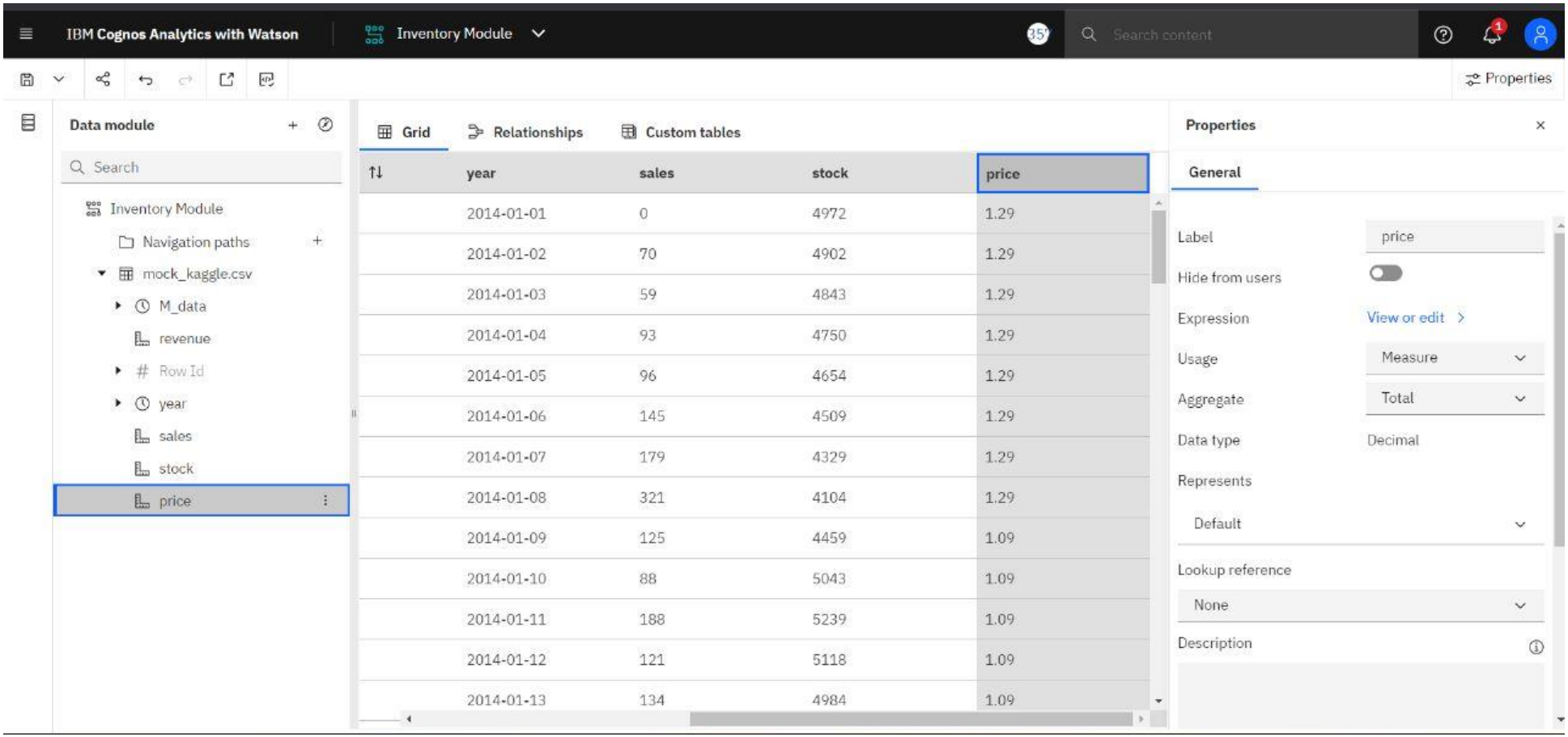
IBM Cognos Analytics with Watson
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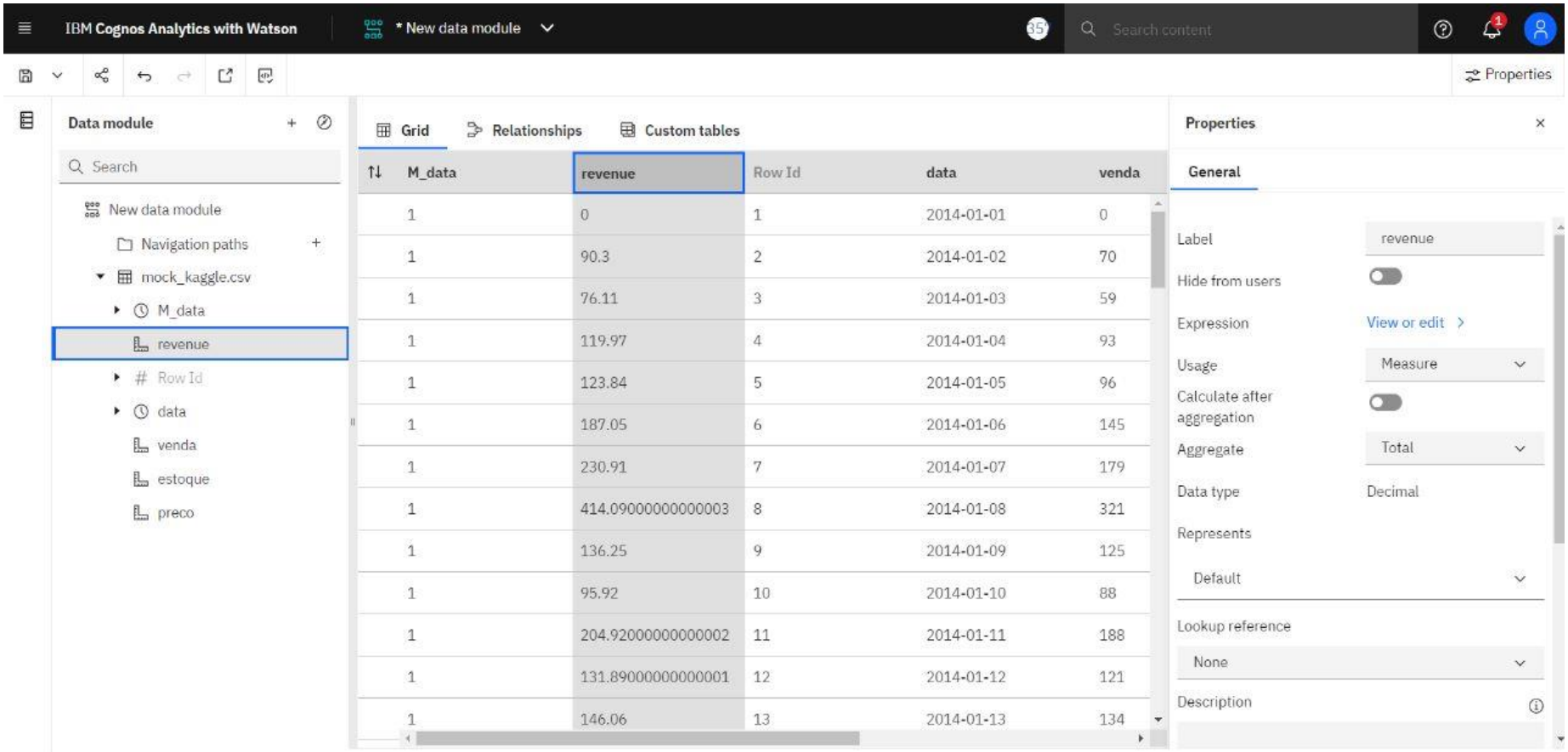

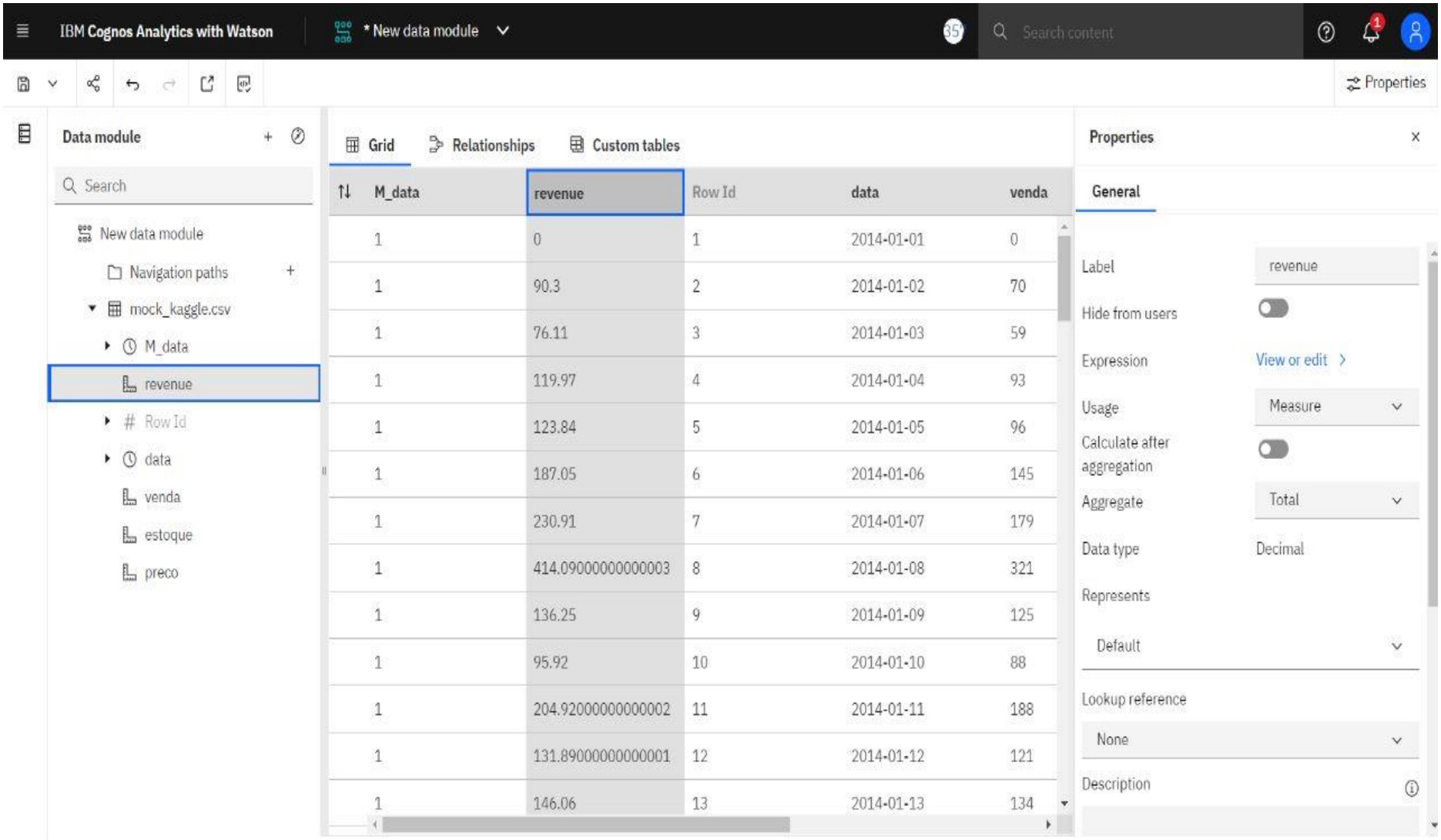
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1 123.84 5 2014-01-05 96
1 187.05 6 2014-01-06 145
1 230.91 7 2014-01-07 179
1 414.09000000000003 8 2014-01-08 321
1 136.25 9 2014-01-09 125
1 95.92 10 2014-01-10 88
1 204.92000000000002 11 2014-01-11 188
1 131.89000000000001 12 2014-01-12 121
1 146.06 13 2014-01-13 134
Properties
General
Label
revenue
Hide from users
Expression
View or edit
Usage
Measure
Calculate after aggregation
Aggregate
Total
Data type
Decimal
Represents
Default
Lookup reference
None
Description

Prepared data link –

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=825882129_c40bcea726454d02b1e6ad478989bb01_sessionTemp&objRef=&tid=825882129_c40bcea726454d02b1e6ad478989bb01_sessionTemp