Installing pymango:





A screenshot of a computer program

AI-generated content may be incorrect.

Worked:  
A computer screen shot of a program

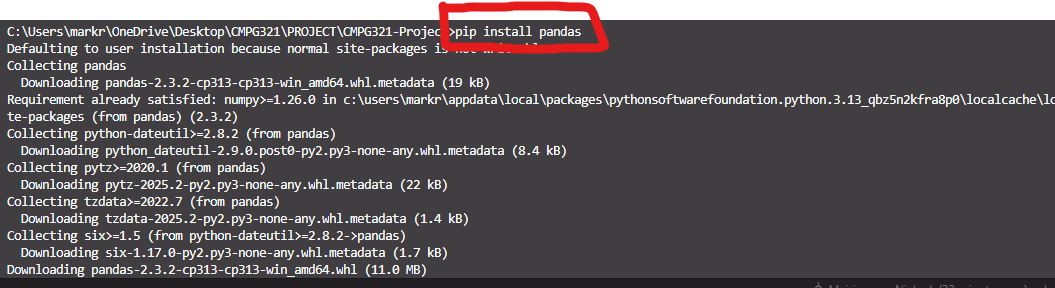
AI-generated content may be incorrect.

Verify Installation:



Installing pandas:

pip install pandas



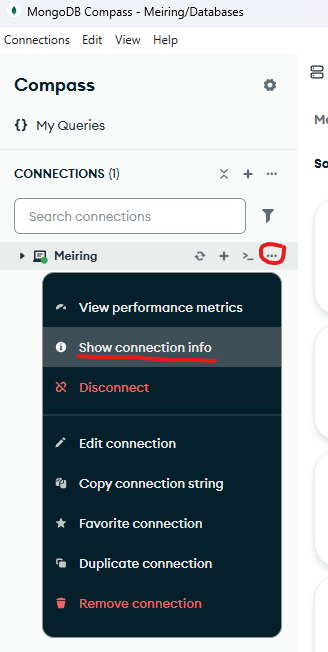
Installing pip openpyxl:

A screen shot of a computer

AI-generated content may be incorrect.

Ensure MongoDB connection:  
A screen shot of a computer code

AI-generated content may be incorrect.



A screenshot of a computer

AI-generated content may be incorrect.

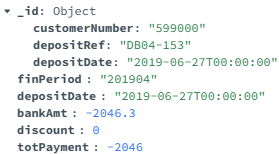
Warn Mark:

Payment\_Lines sheet:  


A screenshot of a computer

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So I changed it to add depositDate as part of the \_id to make it unique.

New example:



Payment\_Header sheet:  




paymentHeaders

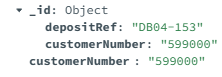
A white rectangular object with a black stripe

AI-generated content may be incorrect.

Suitability:  Helps with payment tracking, even though it is redundant with paymentLines, having redundancy with anything relating to payments is not potentially bad to have.

So I changed it to add customerNumber as part of the \_id to make it unique.

New example:



Kafka setup (OLD)

Download java: [Download Java](https://www.java.com/en/download/)

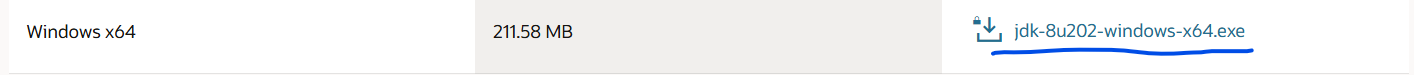
A screen shot of a computer

AI-generated content may be incorrect.

Download: [Apache Kafka](https://kafka.apache.org/downloads)  
NB!!! Specifically this version:  
A screenshot of a computer

AI-generated content may be incorrect.

Then download:

[Java Archive Downloads - Java SE 8 | Oracle Africa Region](https://www.oracle.com/africa/java/technologies/javase/javase8-archive-downloads.html)  


A screenshot of a computer

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setx JAVA\_HOME "C:\Program Files\Java\jdk1.8.0\_202"

RESTART THE TERMINAL THEN:



echo %JAVA\_HOME%

This is kafka folder in downloads:

  
Move the Kafka folder after you have extracted it to your C: drive and rename to just:



A screenshot of a computer

AI-generated content may be incorrect.

Now in Git Bash

To start Zookeeper:



bin/zookeeper-server-start.sh config/zookeeper.properties

THEN IN ANOTHER TERMINAL:

Start Kafka Broker:

A black background with yellow and blue text

AI-generated content may be incorrect.

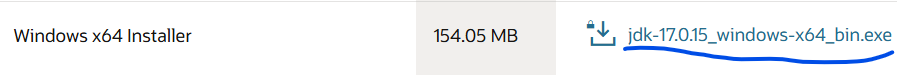
bin/kafka-server-start.sh config/server.properties

THEN IN ANOTHER TERMINAL:

Kafka setup (New):

Download Oracle Java JDK 17:

[Java Archive Downloads - Java SE 17.0.13 and later](https://www.oracle.com/java/technologies/javase/jdk17-0-13-later-archive-downloads.html)



In Command prompt

A screen shot of a computer

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setx JAVA\_HOME "C:\Program Files\Java\jdk-17"

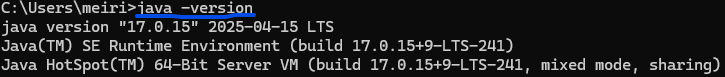
A screenshot of a computer

AI-generated content may be incorrect.

setx PATH "%PATH%;%JAVA\_HOME%\bin"

RESTART TERMINAL

Make sure this returns this in command prompt:





Install Kafka:

[Apache Kafka](https://kafka.apache.org/downloads)

A screenshot of a computer

AI-generated content may be incorrect.

Now in downloads folder:



Extract file and place in C: drive and rename to:



Open the kafka-4.1 folder in Git Bash and run commands:

Setup the broker to respond (YOUR uuid will be different):

A computer screen with text on it

AI-generated content may be incorrect.

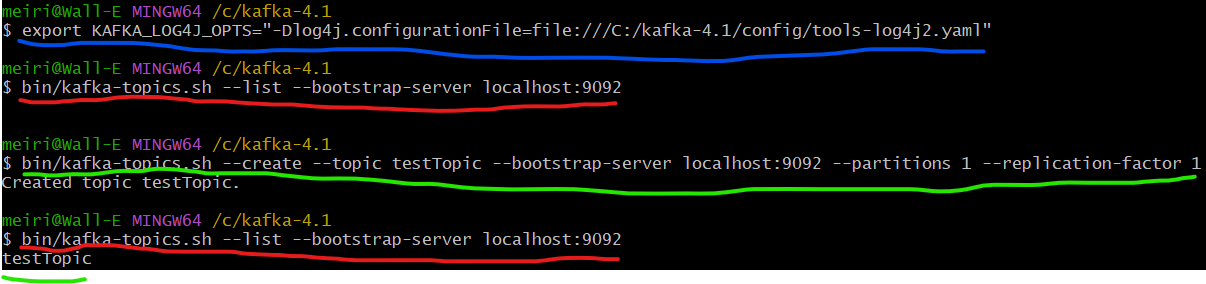
1. export KAFKA\_LOG4J\_OPTS="-Dlog4j.configurationFile=file:///C:/kafka-4.1/config/tools-log4j2.yaml"
2. bin/kafka-storage.sh random-uuid
3. bin/kafka-storage.sh format -t Rj-EMVfyRtaaYKQElD8jvA -c C:/kafka-4.1/config/server.properties --standalone
4. bin/kafka-server-start.sh config/server.properties

While this is running open another git bash terminal:

Test to see if broker is listening:

* Blue: initialise terminal variable to be the same as previous terminal’s
* Red: broker is live and listening
* Green: Create message
* Red (again): broker listens for “testTopic” on port 9092 and returns it.

SUCCESS!!!



1. export KAFKA\_LOG4J\_OPTS="-Dlog4j.configurationFile=file:///C:/kafka-4.1/config/tools-log4j2.yaml"
2. bin/kafka-topics.sh --create --topic testTopic --bootstrap-server localhost:9092 --partitions 1 --replication-factor 1
3. bin/kafka-topics.sh --list --bootstrap-server localhost:9092