Asas dan Aplikasi Metabase

http://colab.research.google.com/

https://bit.ly/11klasPython

https://www.metabase.com/

Instructor Introduction

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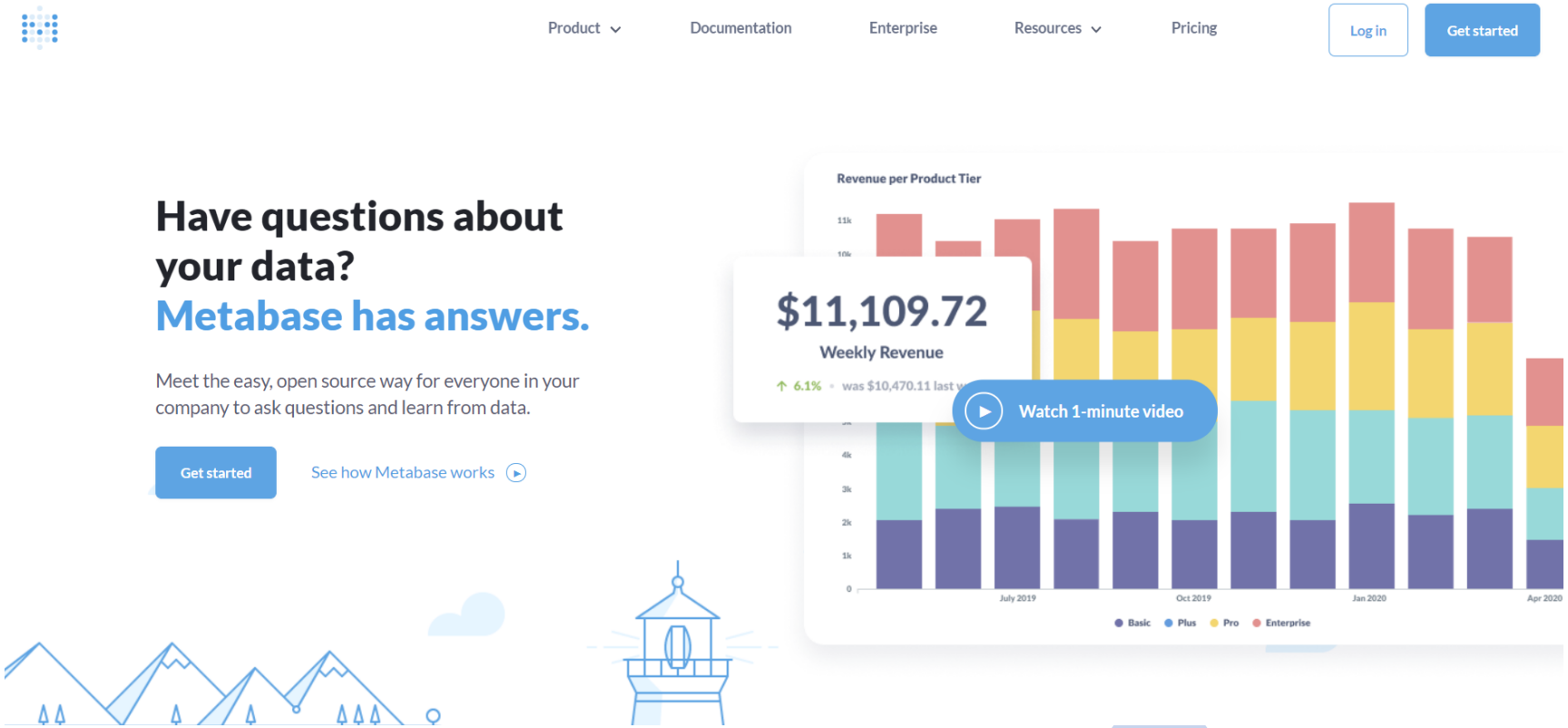
- Email: najmi.ariffin@dosm.gov.my

- Main research focus:
  - Analyzing Data by using Machine Learning algorithms

About Metabase



Course Content

- **Sample Apps/database**
- **Working with SQLITE (Python)**
- **Application Own Data to Metabase**

Ready to get started?

Get up and running in as little as 5 minutes.

Get Metabase

SELF HOSTED

Metabase Open Source Edition

Pick how you'd like to run Metabase.

Docker Image

Metabase provides an official Docker image via Dockerhub that can be used for deployments on any system that is running Docker. Here's a one-liner that will start a container running Metabase.

```
docker run -d -p 3000:3000 --name metabase metabase/metabase
```

Head over to our documentation for
more detailed information about running on Docker!

.jar

If you'd like to run Metabase on any system that supports Java 8 or higher, simply download our pre built JAR file.

Download

Follow our documentation for more info on running Metabase as a jar.

Running the Metabase JAR file

To run Metabase via a JAR file, you will need to have a Java Runtime Environment (JRE) installed on your system.

1

Install Java JRE

We recommend the latest LTS version of JRE from AdoptOpenJDK with HotSpot JVM and x64 architecture, but other Java versions are supported too.

Check installed version

To see if your system already has Java installed, try running this command from a terminal:

```
java -version
```

You should see output similar to this:

```
openjdk version "11.0.7" 2020-04-14
OpenJDK Runtime Environment AdoptOpenJDK (build 11.0.7+10)
OpenJDK 64-Bit Server VM AdoptOpenJDK (build 11.0.7+10, mixed mode)
```

If you get an error, you need to install Java. If the Java release date is more than a few months old, you should update Java.

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2

Download Metabase

Go to the Metabase download page and download the latest release. Place the downloaded JAR file into a newly created directory (as it will create some files when it is run).

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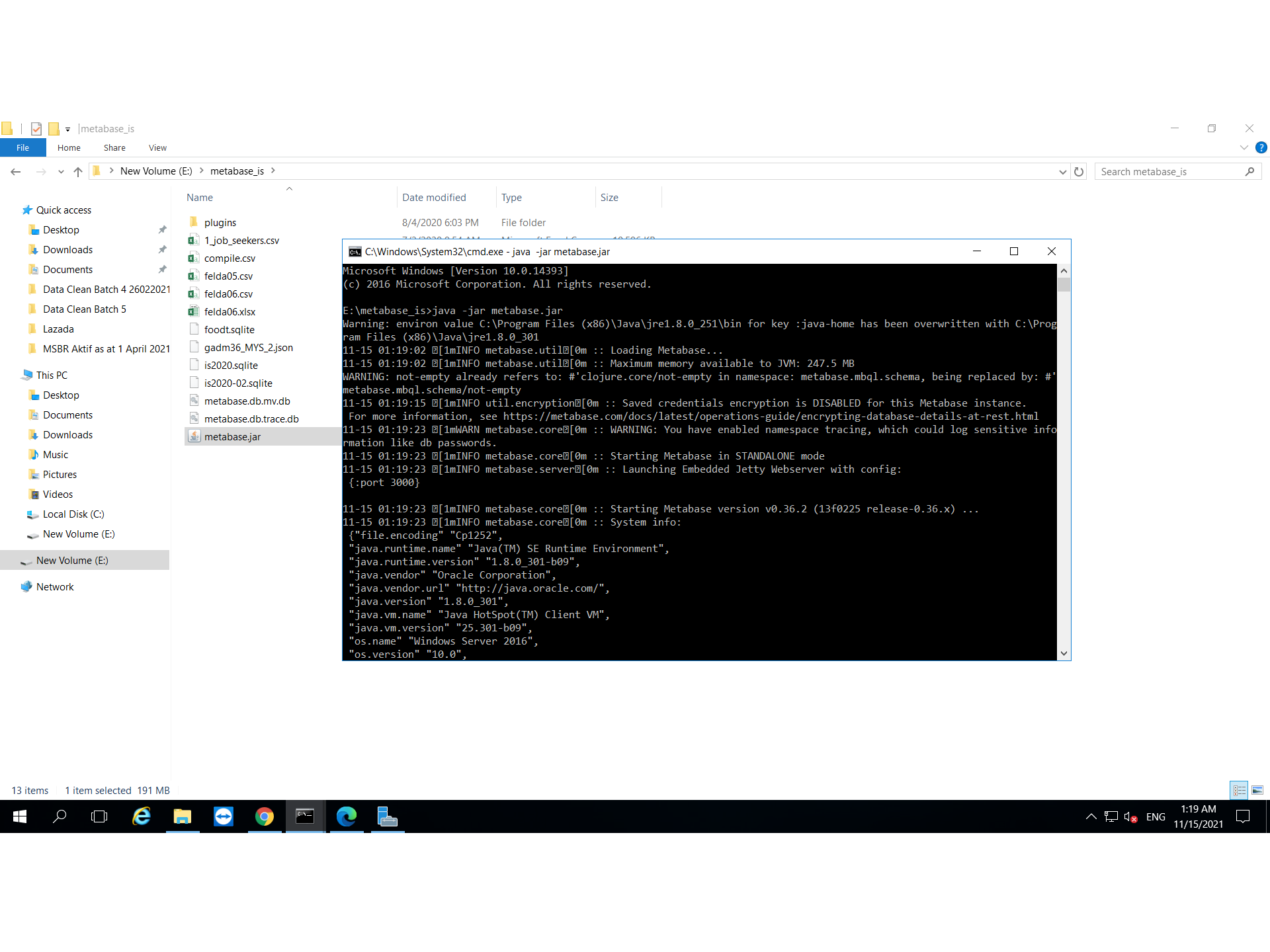
Launching Metabase

Now that you have Java working you can run the JAR from a terminal with:

```
java -jar metabase.jar
```


metabase_is
File
Home
Share
View
New Volume (E:) › metabase_is ›
Search metabase_is
Quick access
Desktop
Downloads
Documents
Data Clean Batch 4 26022021
Data Clean Batch 5
Lazada
MSBR Aktif as at 1 April 2021
This PC
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
New Volume (E:)
New Volume (E:)
Network
Name
Date modified
Type
Size
plugins
8/4/2020 6:03 PM
File folder
1_job_seekers.csv
compile.csv
felda05.csv
felda06.csv
felda06.xlsx
foodt.sqlite
gadm36_MYS_2.json
is2020.sqlite
is2020-02.sqlite
metabase.db.mv.db
metabase.db.trace.db
metabase.jar
C:\Windows\System32\cmd.exe - java -jar metabase.jar
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
E:\metabase_is>java -jar metabase.jar
Warning: environ value C:\Program Files (x86)\Java\jre1.8.0_251\bin for key :java-home has been overwritten with C:\Program Files (x86)\Java\jre1.8.0_301
11-15 01:19:02 [1mINFO metabase.util[0m :: Loading Metabase...
11-15 01:19:02 [1mINFO metabase.util[0m :: Maximum memory available to JVM: 247.5 MB
WARNING: not-empty already refers to: #'clojure.core/not-empty in namespace: metabase.mbql.schema, being replaced by: #'metabase.mbql.schema/not-empty
11-15 01:19:15 [1mINFO util.encryption[0m :: Saved credentials encryption is DISABLED for this Metabase instance.
For more information, see https://metabase.com/docs/latest/operations-guide/encrypting-database-details-at-rest.html
11-15 01:19:23 [1mWARN metabase.core[0m :: WARNING: You have enabled namespace tracing, which could log sensitive information like db passwords.
11-15 01:19:23 [1mINFO metabase.core[0m :: Starting Metabase in STANDALONE mode
11-15 01:19:23 [1mINFO metabase.server[0m :: Launching Embedded Jetty Webserver with config:
{:port 3000}
11-15 01:19:23 [1mINFO metabase.core[0m :: Starting Metabase version v0.36.2 (13f0225 release-0.36.x) ...
11-15 01:19:23 [1mINFO metabase.core[0m :: System info:
{"file.encoding" "Cp1252",
"java.runtime.name" "Java(TM) SE Runtime Environment",
"java.runtime.version" "1.8.0_301-b09",
"java.vendor" "Oracle Corporation",
"java.vendor.url" "http://java.oracle.com/",
"java.version" "1.8.0_301",
"java.vm.name" "Java HotSpot(TM) Client VM",
"java.vm.version" "25.301-b09",
"os.name" "Windows Server 2016",
"os.version" "10.0",
13 items
1 item selected 191 MB
ENG
1:19 AM
11/15/2021

It's that simple. This will start the Metabase application using all of the default settings. You should see some log entries starting to run in your terminal window showing you the application progress as it starts up. Once Metabase is fully started you'll see a confirmation such as:

```
...
06-19 10:29:34 INFO metabase.task :: Initializing task CheckForNewVersions
06-19 10:29:34 INFO metabase.task :: Initializing task SendAnonymousUsageStats
06-19 10:29:34 INFO metabase.task :: Initializing task SendAbandomentEmails
06-19 10:29:34 INFO metabase.task :: Initializing task SendPulses
06-19 10:29:34 INFO metabase.task :: Initializing task SendFollowUpEmails
06-19 10:29:34 INFO metabase.task :: Initializing task TaskHistoryCleanup
06-19 10:29:34 INFO metabase.core :: Metabase Initialization COMPLETE
```

4

At this point you're ready to go! You can access your new Metabase server on port 3000, most likely at http://localhost:3000

You can use another port than 3000 by setting the `MB_JETTY_PORT` environment variable before running the jar.

Note that in the default configuration Metabase will use a local H2 database for storing all its own application data. This is meant for simple evaluations or personal use, so if you want to run Metabase in production we recommend you migrate away from H2.

Now that you've installed Metabase, it's time to set it up and connect it to your database.

Break

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Login > “tocolab”

1. Login to GMAIL
2. > https://bit.ly/11klasPython
3. https://github.com/booluckgmie/training/blob/main/GColab_and_Intro_to_Python.ipynb
4. https://githubtocolab.com/booluckgmie/training/blob/main/GColab_and_Intro_to_Python.ipynb

Tutorial Metabase

- Use data generate from python
- Copy paste data (.sqlite) to the same folder as Metabase.jar
- Add new database in Metabase
- Run  quick look and visualization

Q & A

THANK YOU