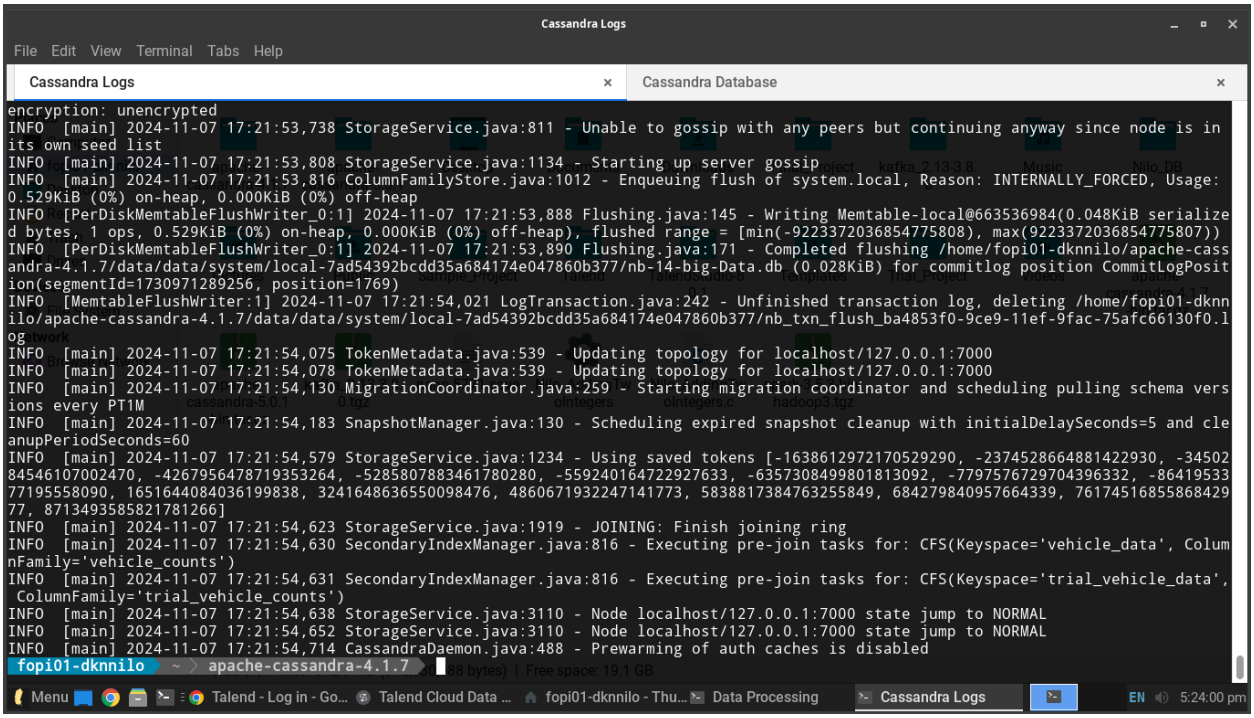
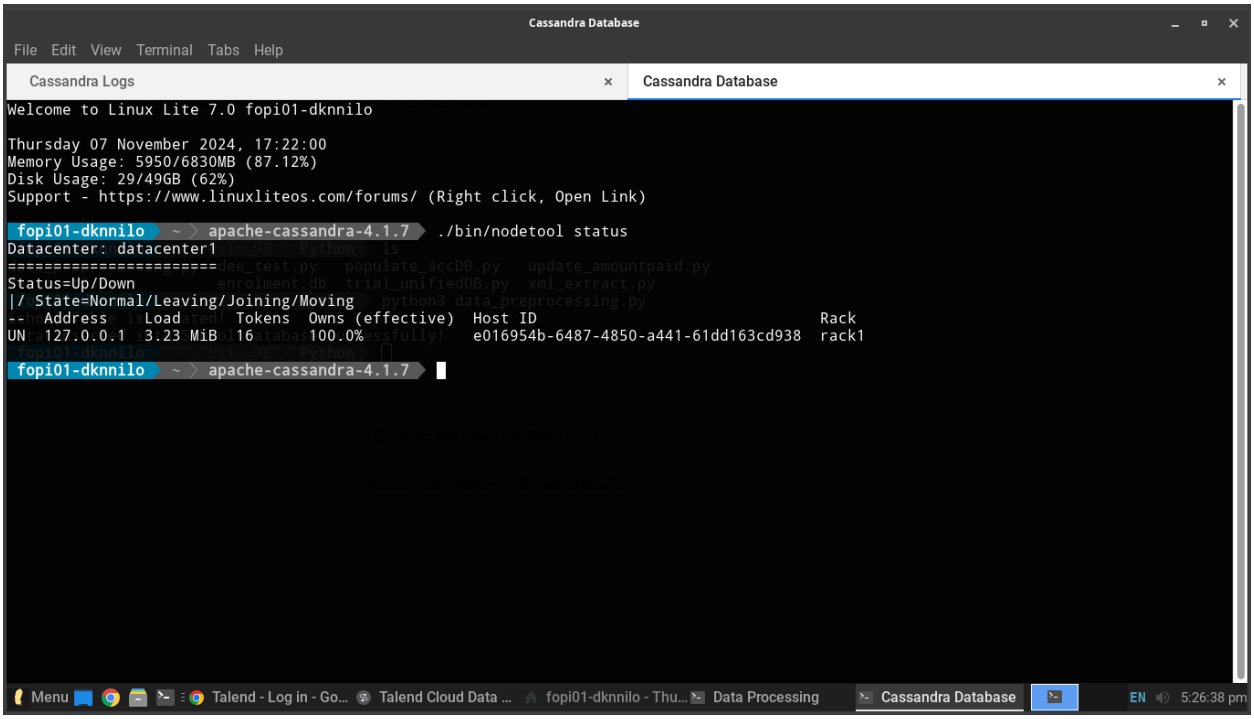
Group 5: Nilo, Daniella Kim N. Course/Section: CSS182-2/CS-O
Peñaflor, Rowencell A.

M2-SA1: Cassandra to Excel File Migration Process using Talend

CASSANDRA STATUS CHECK

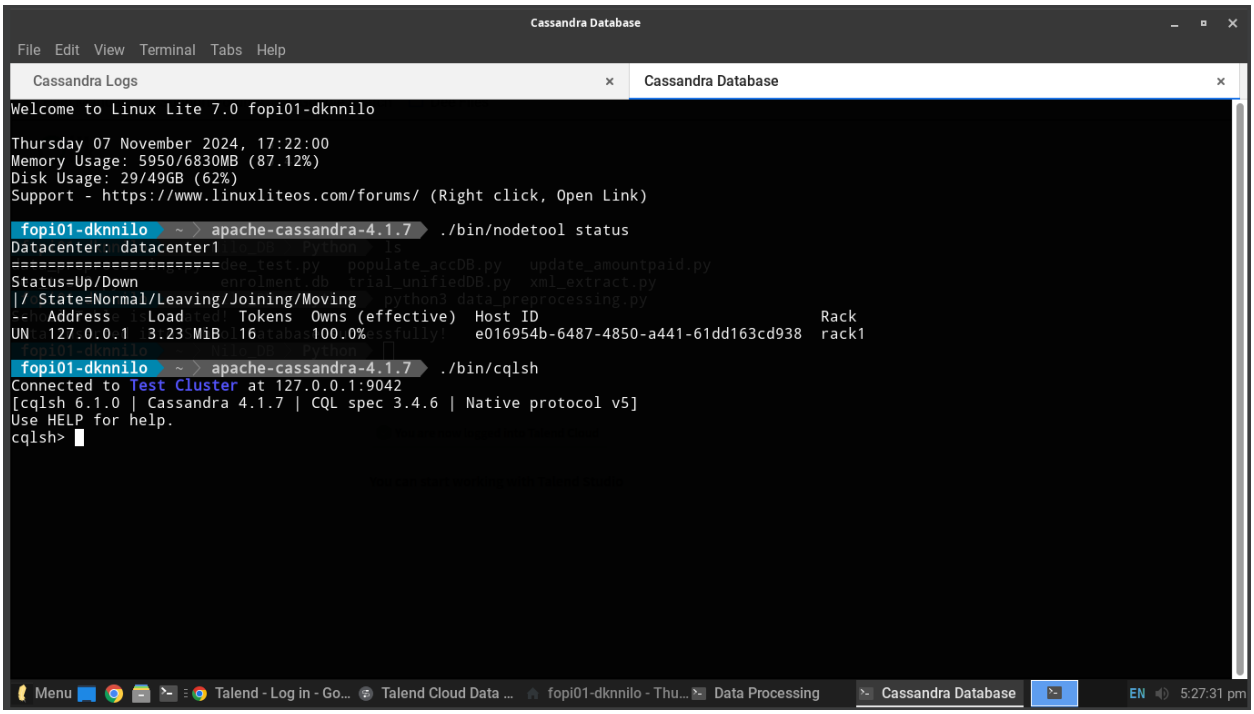
The first thing we did is to determine the status of Cassandra logs by navigating into the `apache-cassandra-4.1.7` directory. Inside the directory, we typed the commands, `tail -f logs/system.log` and `./bin/nodetool status` to check the connection availability. Doing this will determine whether the Cassandra is down, and if it is possible to read, write and update data inside the database.

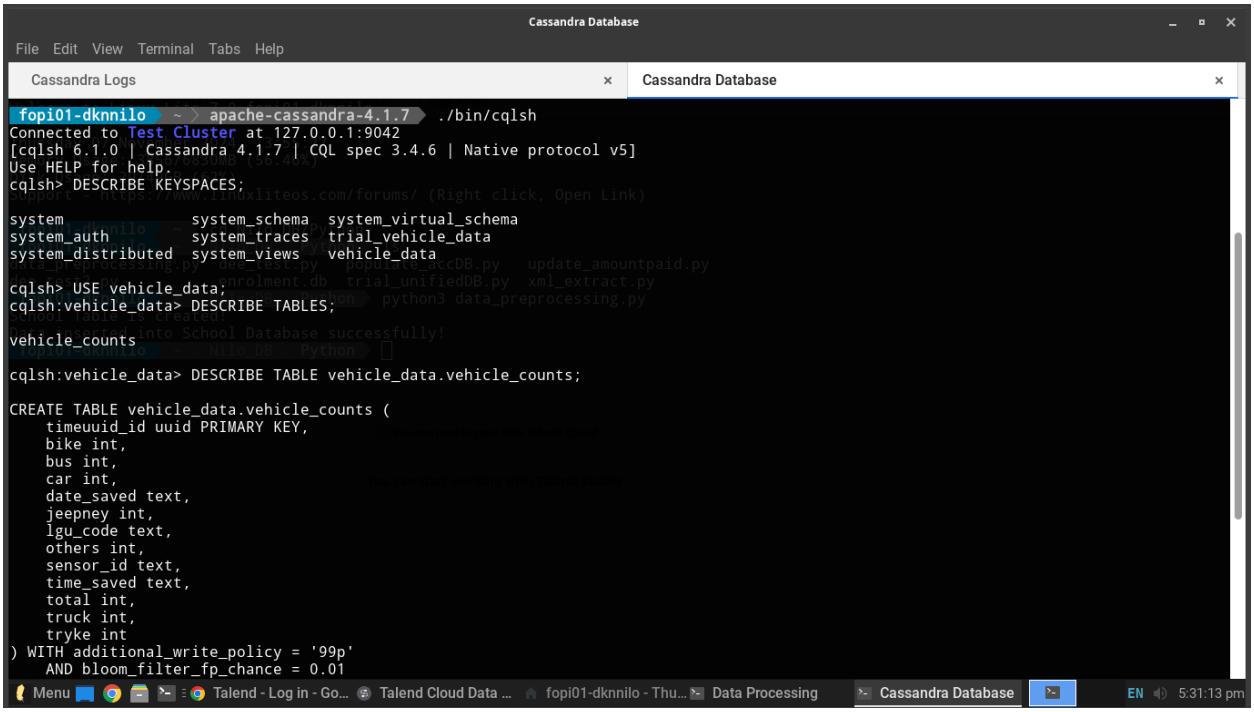


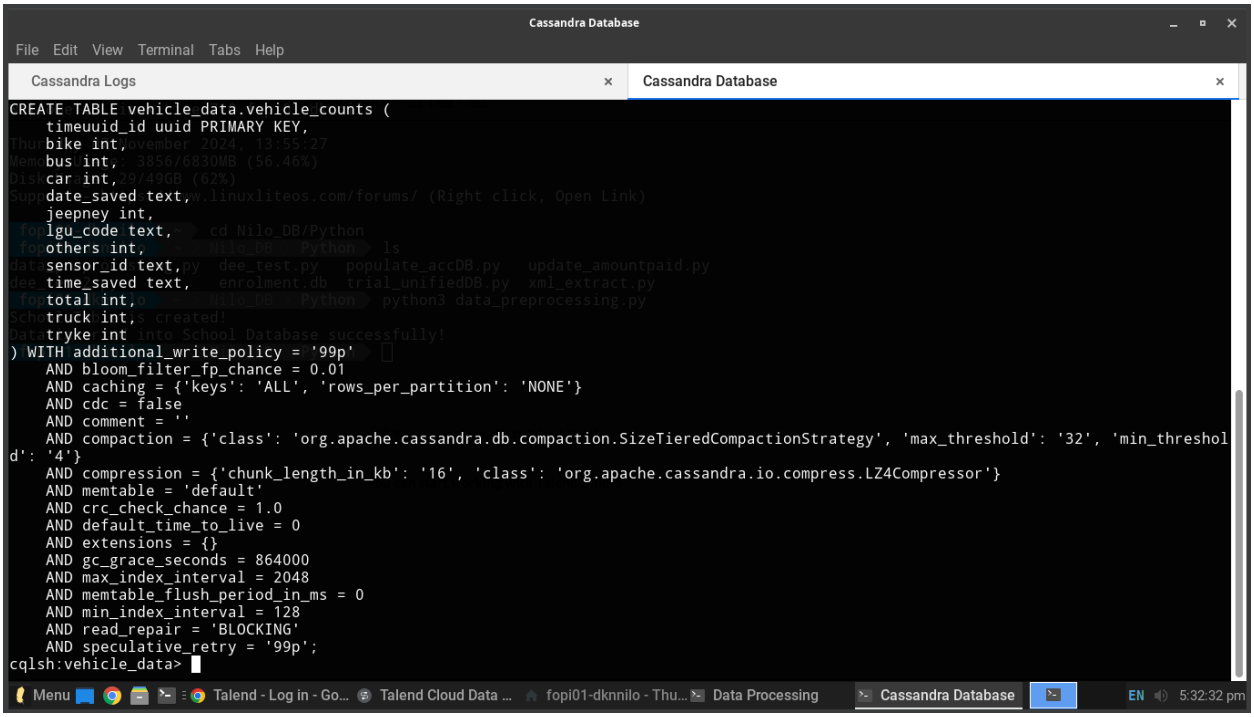


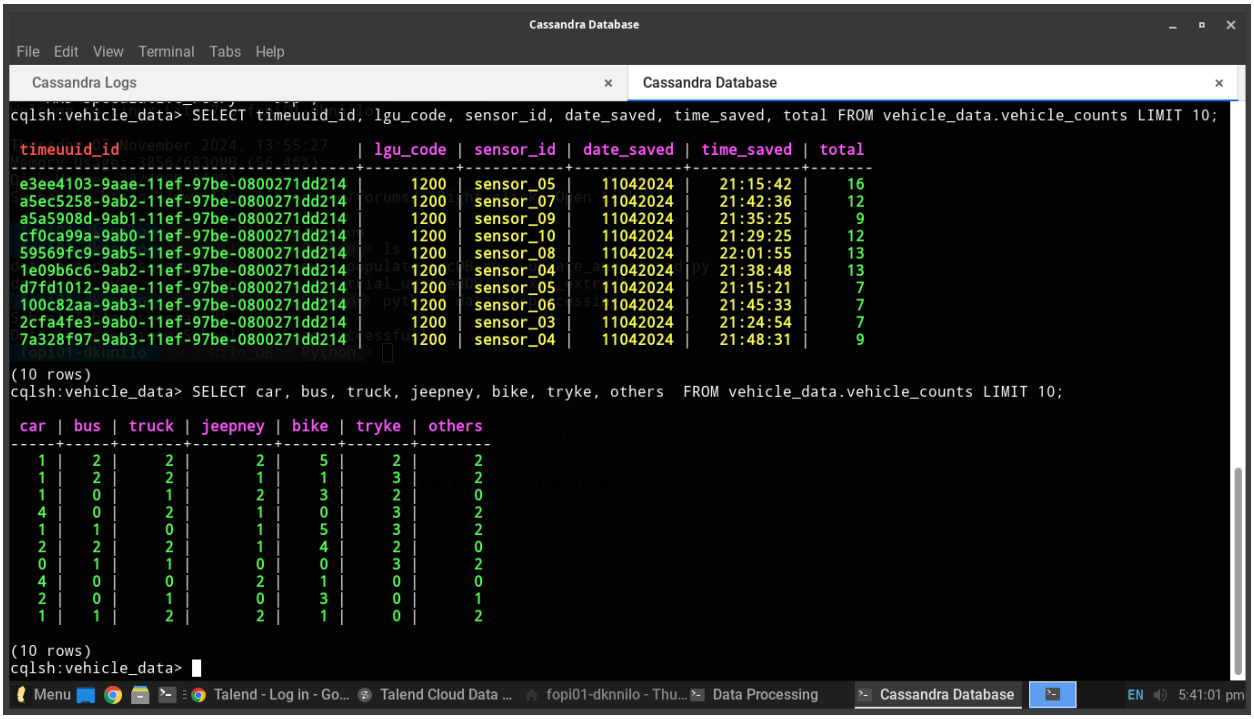
ACCESSING CASSANDRA DATABASE

After checking the connection, we access the Cassandra database by using the command `./bin/cqlsh`. We checked the if the `vehicle_data` keyspace is present in the Cassandra database using the command `DESCRIBE KEYSPACE`. We also checked the information of the `vehicle_counts` table by using the command `DESCRIBE TABLE vehicle_data.vehicle_counts`. Then, we display the first 10 entries of the table using the commands `SELECT timeuuid_id, lgu_code, sensor_id, date_saved, time_saved, total FROM vehicle_data.vehicle_counts LIMIT 10;` to display the first 6 six columns of the table and `SELECT car, bus, truck, jeepney, bike, tryke, others FROM vehicle_data.vehicle_counts LIMIT 10;` to display the specific counts of vehicles based on their categories.


Cassandra Database
File Edit View Terminal Tabs Help
Cassandra Logs
Cassandra Database
Welcome to Linux Lite 7.0 fopi01-dknnilo
Thursday 07 November 2024, 17:22:00
Memory Usage: 5950/6830MB (87.12%)
Disk Usage: 29/49GB (62%)
Support - https://www.linuxliteos.com/forums/ (Right click, Open Link)
fopi01-dknnilo ~ apache-cassandra-4.1.7 ./bin/nodetool status
Datacenter: datacenter1
Status=Up/Down
|/ State=Normal/Leaving/Joining/Moving
-- Address Load Tokens Owns (effective) Host ID Rack
UN 127.0.0.1 3.23 MiB 16 100.0% e016954b-6487-4850-a441-61dd163cd938 rack1
fopi01-dknnilo ~ apache-cassandra-4.1.7 ./bin/cqlsh
Connected to Test Cluster at 127.0.0.1:9042
[cqlsh 6.1.0 | Cassandra 4.1.7 | CQL spec 3.4.6 | Native protocol v5]
Use HELP for help.
cqlsh>
Menu
Talend - Log in - Go...
Talend Cloud Data ...
fopi01-dknnilo - Thu...
Data Processing
Cassandra Database
EN
5:27:31 pm

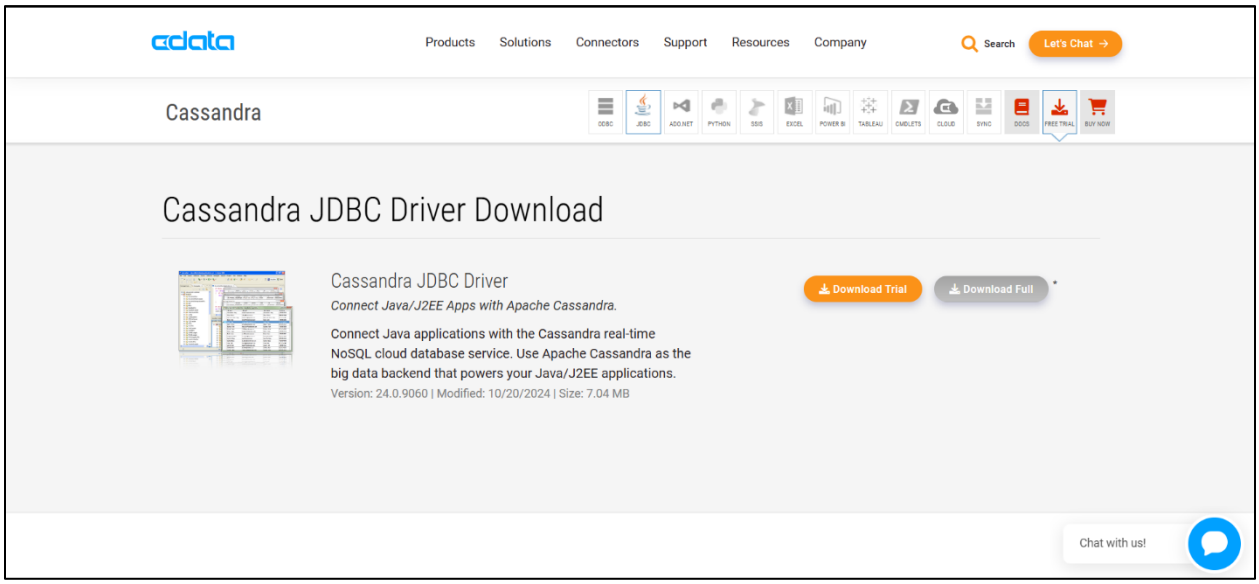

Cassandra Database
File Edit View Terminal Tabs Help
Cassandra Logs
Cassandra Database
fopi01-dknnilo ~ apache-cassandra-4.1.7 ./bin/cqlsh
Connected to Test Cluster at 127.0.0.1:9042
[cqlsh 6.1.0 | Cassandra 4.1.7 | CQL spec 3.4.6 | Native protocol v5]
Use HELP for help.
cqlsh> DESCRIBE KEYSPACES;
system system_schema system_virtual_schema
system_auth system_traces trial_vehicle_data
system_distributed system_views vehicle_data
cqlsh> USE vehicle_data;
cqlsh:vehicle_data> DESCRIBE TABLES;
vehicle_counts
cqlsh:vehicle_data> DESCRIBE TABLE vehicle_data.vehicle_counts;
CREATE TABLE vehicle_data.vehicle_counts (
timeuuid_id uuid PRIMARY KEY,
bike int,
bus int,
car int,
date_saved text,
jeepney int,
lgu_code text,
others int,
sensor_id text,
time_saved text,
total int,
truck int,
tryke int
) WITH additional_write_policy = '99p'
AND bloom_filter_fp_chance = 0.01
Menu
Talend - Log in - Go...
Talend Cloud Data ...
fopi01-dknnilo - Thu...
Data Processing
Cassandra Database
EN
5:31:13 pm

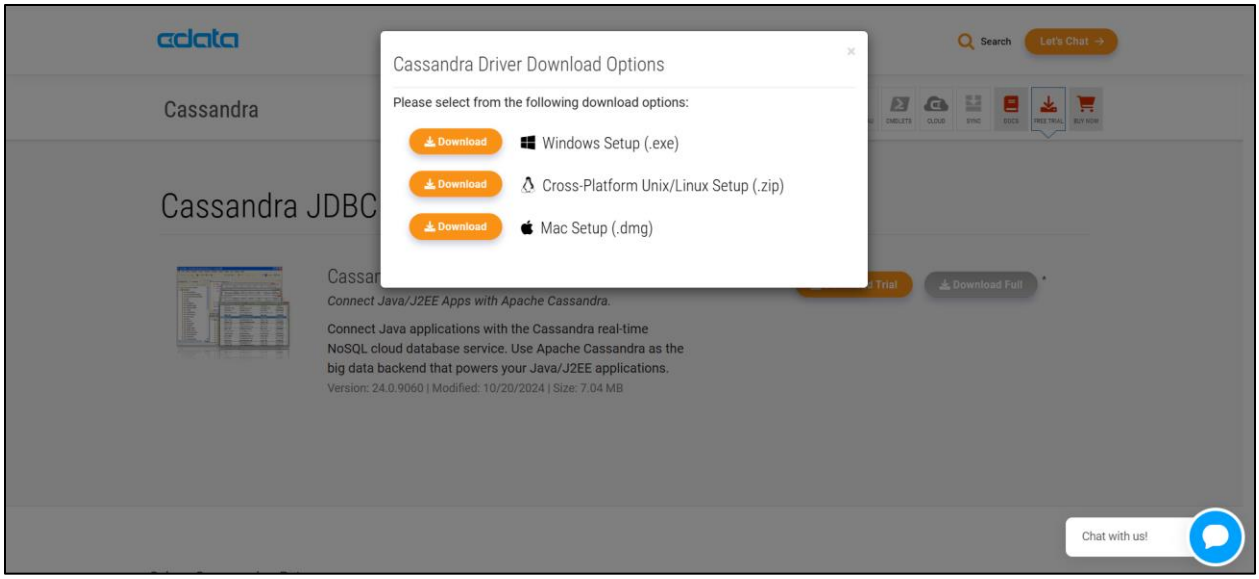

Cassandra Database
File Edit View Terminal Tabs Help
Cassandra Logs
Cassandra Database
CREATE TABLE vehicle_data.vehicle_counts (
timeuuid_id uuid PRIMARY KEY,
bike int,
bus int,
car int,
date_saved text,
jeepney int,
lgu_code text,
others int,
sensor_id text,
time_saved text,
total int,
truck int,
tryke int
) WITH additional_write_policy = '99p'
AND bloom_filter_fp_chance = 0.01
AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
AND cdc = false
AND comment = ''
AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32', 'min_threshold': '4'}
AND compression = {'chunk_length_in_kb': '16', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
AND memtable = 'default'
AND crc_check_chance = 1.0
AND default_time_to_live = 0
AND extensions = {}
AND gc_grace_seconds = 864000
AND max_index_interval = 2048
AND memtable_flush_period_in_ms = 0
AND min_index_interval = 128
AND read_repair = 'BLOCKING'
AND speculative_retry = '99p';
cqlsh:vehicle_data>
Menu
Talend - Log in - Go...
Talend Cloud Data ...
fopi01-dknnilo - Thu...
Data Processing
Cassandra Database
EN
5:32:32 pm


Cassandra Database
File Edit View Terminal Tabs Help
Cassandra Logs
Cassandra Database
cqlsh:vehicle_data> SELECT timeuuid_id, lgu_code, sensor_id, date_saved, time_saved, total FROM vehicle_data.vehicle_counts LIMIT 10;
timeuuid_id | lgu_code | sensor_id | date_saved | time_saved | total
e3ee4103-9aae-11ef-97be-0800271dd214 | 1200 | sensor_05 | 11042024 | 21:15:42 | 16
a5ec5258-9ab2-11ef-97be-0800271dd214 | 1200 | sensor_07 | 11042024 | 21:42:36 | 12
a5a5908d-9ab1-11ef-97be-0800271dd214 | 1200 | sensor_09 | 11042024 | 21:35:25 | 9
cf0ca99a-9ab0-11ef-97be-0800271dd214 | 1200 | sensor_10 | 11042024 | 21:29:25 | 12
59569fc9-9ab5-11ef-97be-0800271dd214 | 1200 | sensor_08 | 11042024 | 22:01:55 | 13
1e09b6c6-9ab2-11ef-97be-0800271dd214 | 1200 | sensor_04 | 11042024 | 21:38:48 | 13
d7fd1012-9aae-11ef-97be-0800271dd214 | 1200 | sensor_05 | 11042024 | 21:15:21 | 7
100c82aa-9ab3-11ef-97be-0800271dd214 | 1200 | sensor_06 | 11042024 | 21:45:33 | 7
2cfa4fe3-9ab0-11ef-97be-0800271dd214 | 1200 | sensor_03 | 11042024 | 21:24:54 | 7
7a328f97-9ab3-11ef-97be-0800271dd214 | 1200 | sensor_04 | 11042024 | 21:48:31 | 9
(10 rows)
cqlsh:vehicle_data> SELECT car, bus, truck, jeepney, bike, tryke, others FROM vehicle_data.vehicle_counts LIMIT 10;
car | bus | truck | jeepney | bike | tryke | others
1 | 2 | 2 | 2 | 5 | 2 | 2
1 | 2 | 2 | 1 | 1 | 3 | 2
1 | 0 | 1 | 2 | 3 | 2 | 0
4 | 0 | 2 | 1 | 0 | 3 | 2
1 | 1 | 0 | 1 | 5 | 3 | 2
2 | 2 | 2 | 1 | 4 | 2 | 0
0 | 1 | 1 | 0 | 0 | 3 | 2
4 | 0 | 0 | 2 | 1 | 0 | 0
2 | 0 | 1 | 0 | 3 | 0 | 1
1 | 1 | 2 | 2 | 1 | 0 | 2
(10 rows)
cqlsh:vehicle_data>
Menu
Talend - Log in - Go...
Talend Cloud Data ...
fopi01-dknnilo - Thu...
Data Processing
Cassandra Database
EN
5:41:01 pm

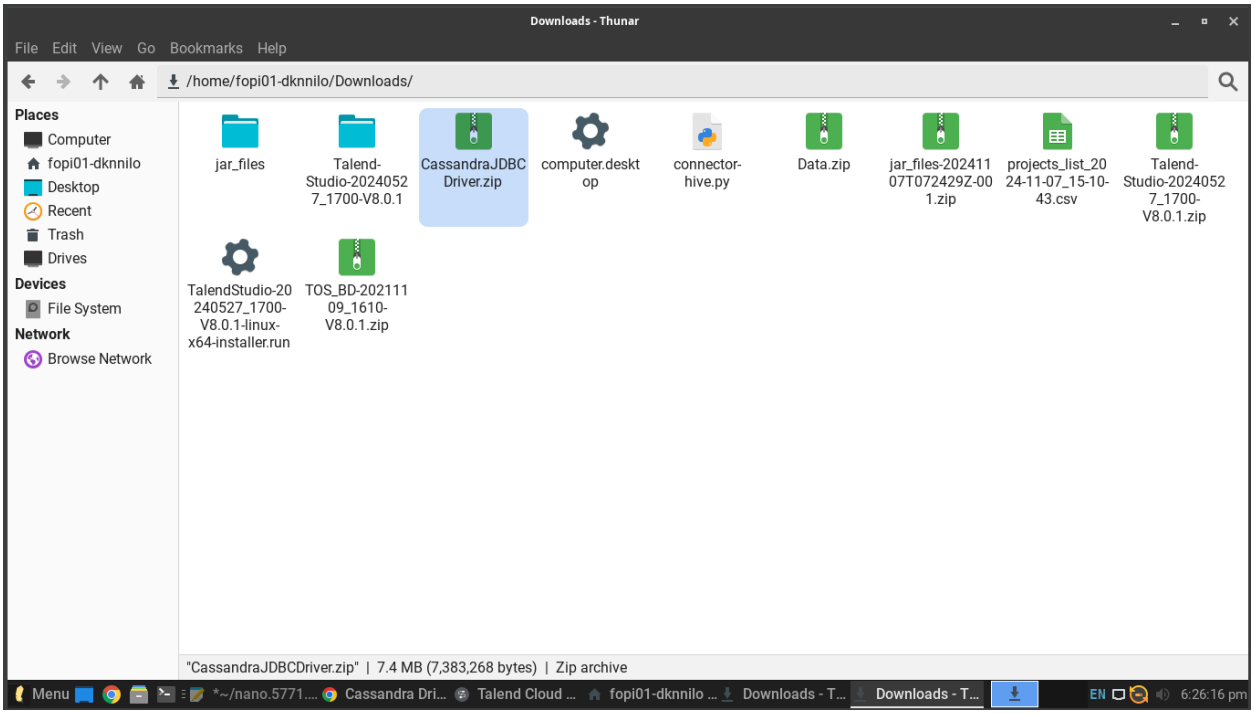
DOWNLOADING AND INSTALLING JDBC DRIVER

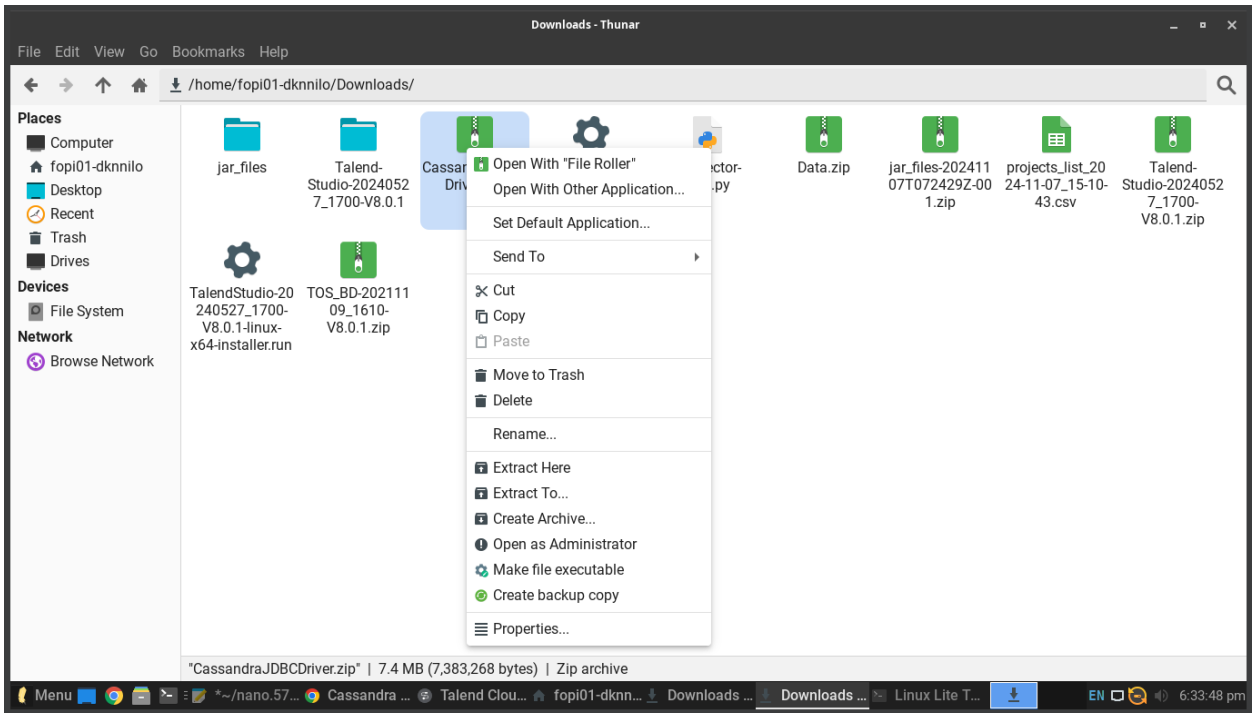
The next step after checking the `cctv_counts` table is downloading and installing the JDBC driver. Installing JDBC Driver is important as it enables users to connect with live Cassandra data from various applications that support JDBC connectivity, such as Talend. We installed the Cassandra JDBC Driver software using the link: `https://www.cdata.com/drivers/cassandra/download/jdbc/`. We clicked the Download Trial button and chose the Cross-Platform Unix/Linux Setup to download the software into our Linux Lite Virtual Machine.

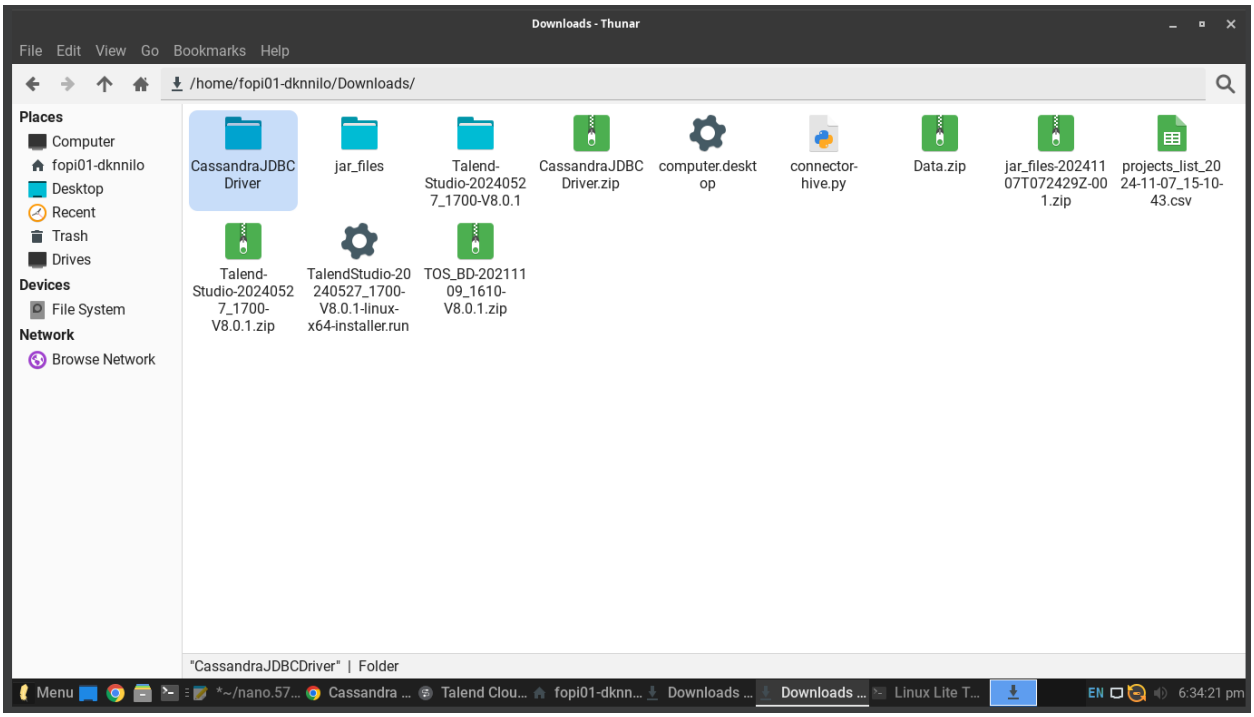


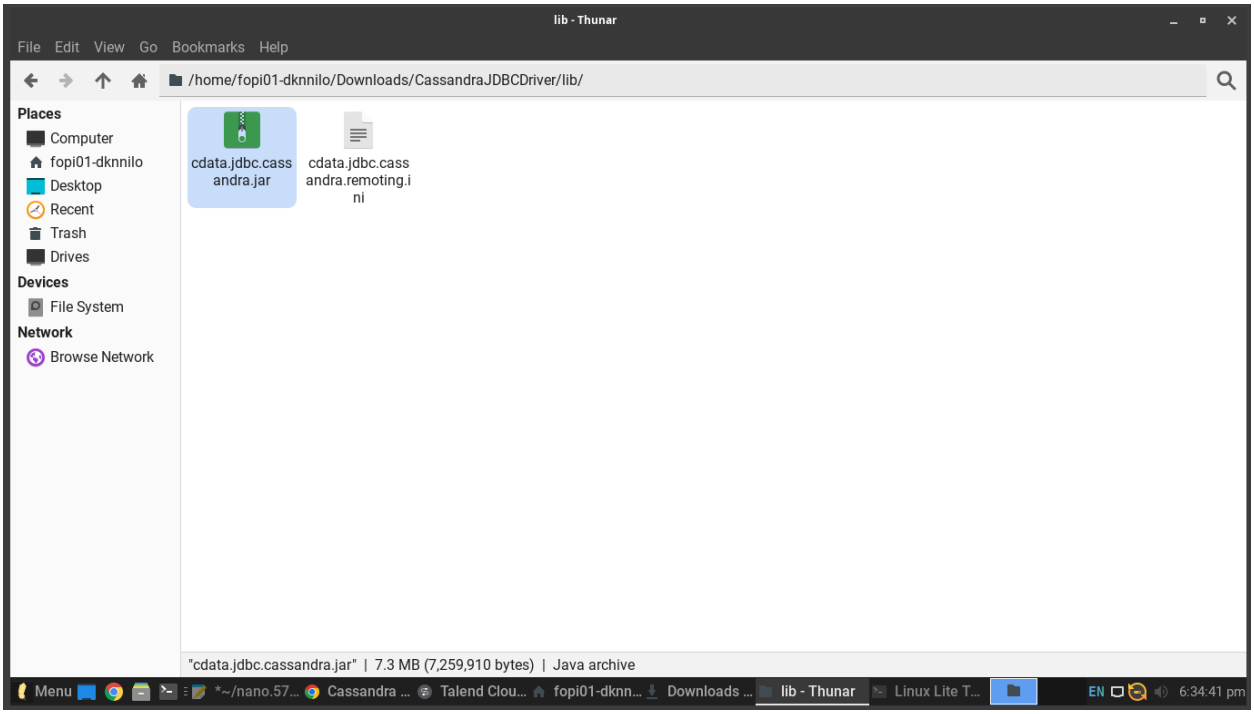


After the downloading process, we unzip the file to check its contents. The unzipped, folder contains the jar file for the JDBC and the configuration settings for the driver. In this activity, we will be using the jar file as shown in the later processes.



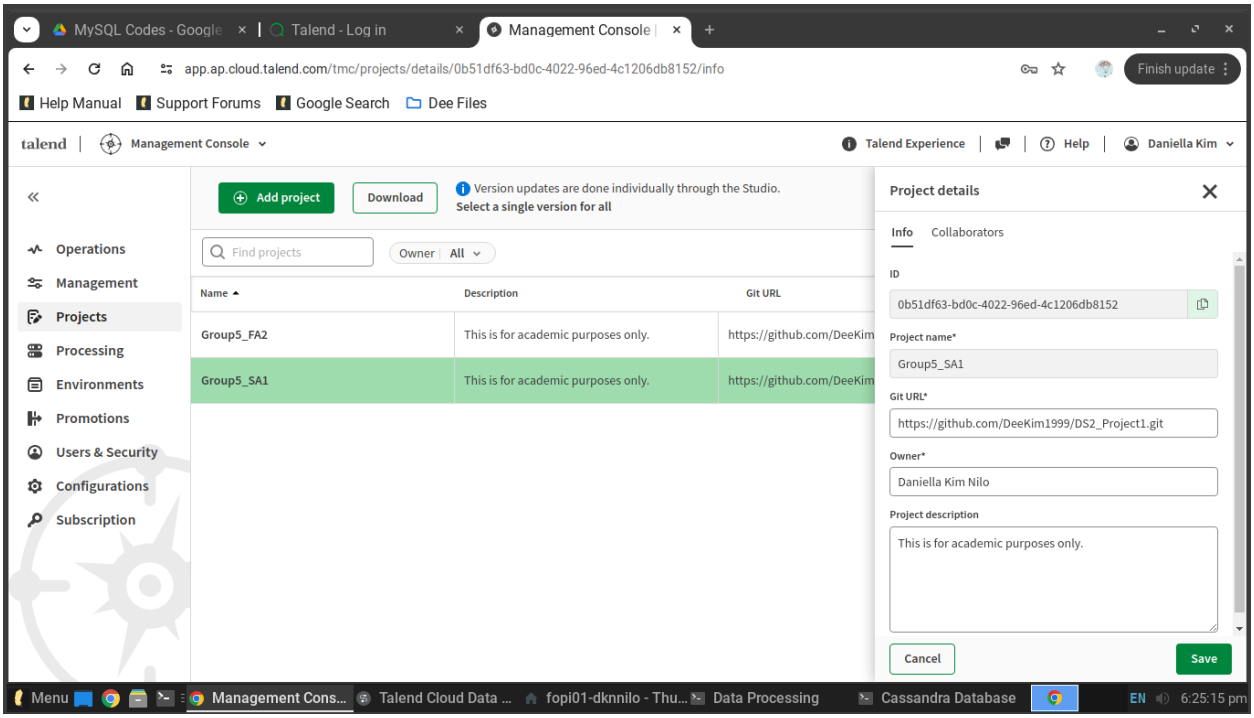

Downloads - Thunar
File Edit View Go Bookmarks Help
/home/fopi01-dknnilo/Downloads/
Places
Computer
fopi01-dknnilo
Desktop
Recent
Trash
Drives
Devices
File System
Network
Browse Network
jar_files
Talend-Studio-20240527_1700-V8.0.1
Data.zip
jar_files-20241107T072429Z-001.zip
projects_list_2024-11-07_15-10-43.csv
Talend-Studio-20240527_1700-V8.0.1.zip
TalendStudio-20240527_1700-V8.0.1-linux-x64-installer.run
TOS_BD-20211109_1610-V8.0.1.zip
Open With "File Roller"
Open With Other Application...
Set Default Application...
Send To
Cut
Copy
Paste
Move to Trash
Delete
Rename...
Extract Here
Extract To...
Create Archive...
Open as Administrator
Make file executable
Create backup copy
Properties...
"CassandraJDBCDriver.zip" | 7.4 MB (7,383,268 bytes) | Zip archive
Menu
Linux Lite T...
EN
6:33:48 pm


Downloads - Thunar
File Edit View Go Bookmarks Help
/home/fopi01-dknnilo/Downloads/
Places
Computer
fopi01-dknnilo
Desktop
Recent
Trash
Drives
Devices
File System
Network
Browse Network
CassandraJDBC Driver
jar_files
Talend-Studio-20240527_1700-V8.0.1
CassandraJDBC Driver.zip
computer.desktop
connector-hive.py
Data.zip
jar_files-20241107T072429Z-001.zip
projects_list_2024-11-07_15-10-43.csv
Talend-Studio-20240527_1700-V8.0.1.zip
TalendStudio-20240527_1700-V8.0.1-linux-x64-installer.run
TOS_BD-20211109_1610-V8.0.1.zip
"CassandraJDBCDriver" | Folder
Menu
Linux Lite T...
EN
6:34:21 pm



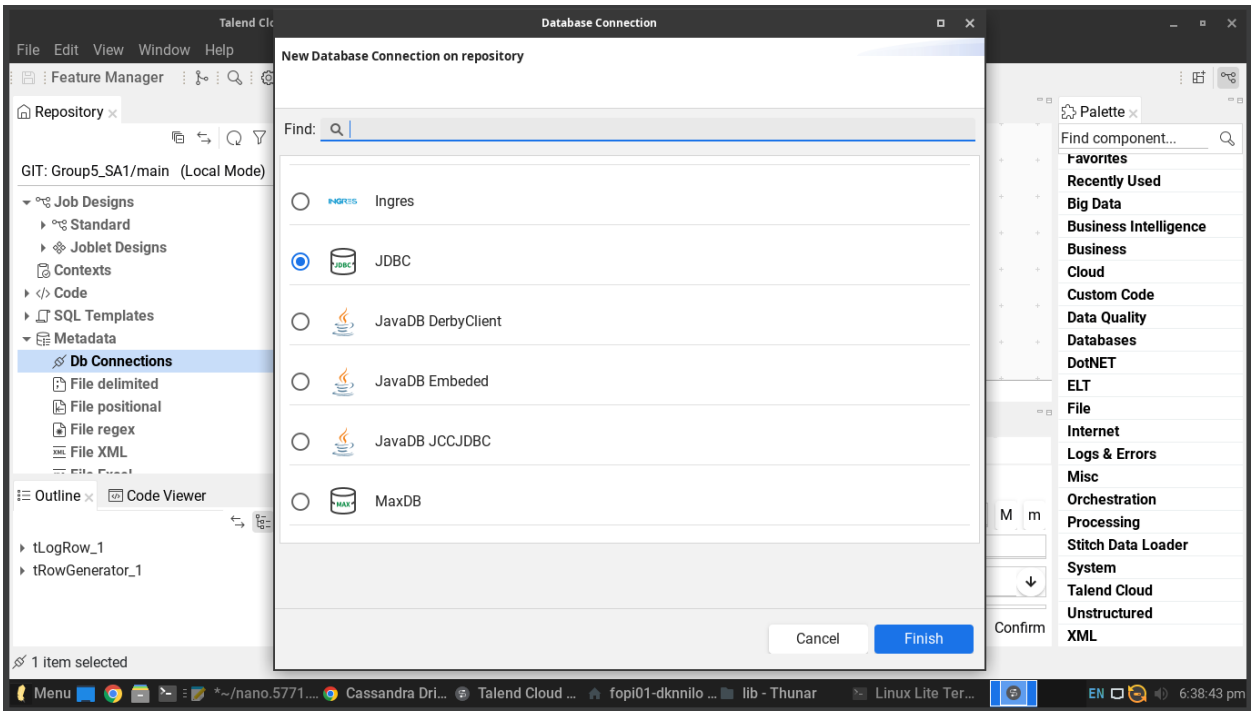
CREATING A NEW PROJECT

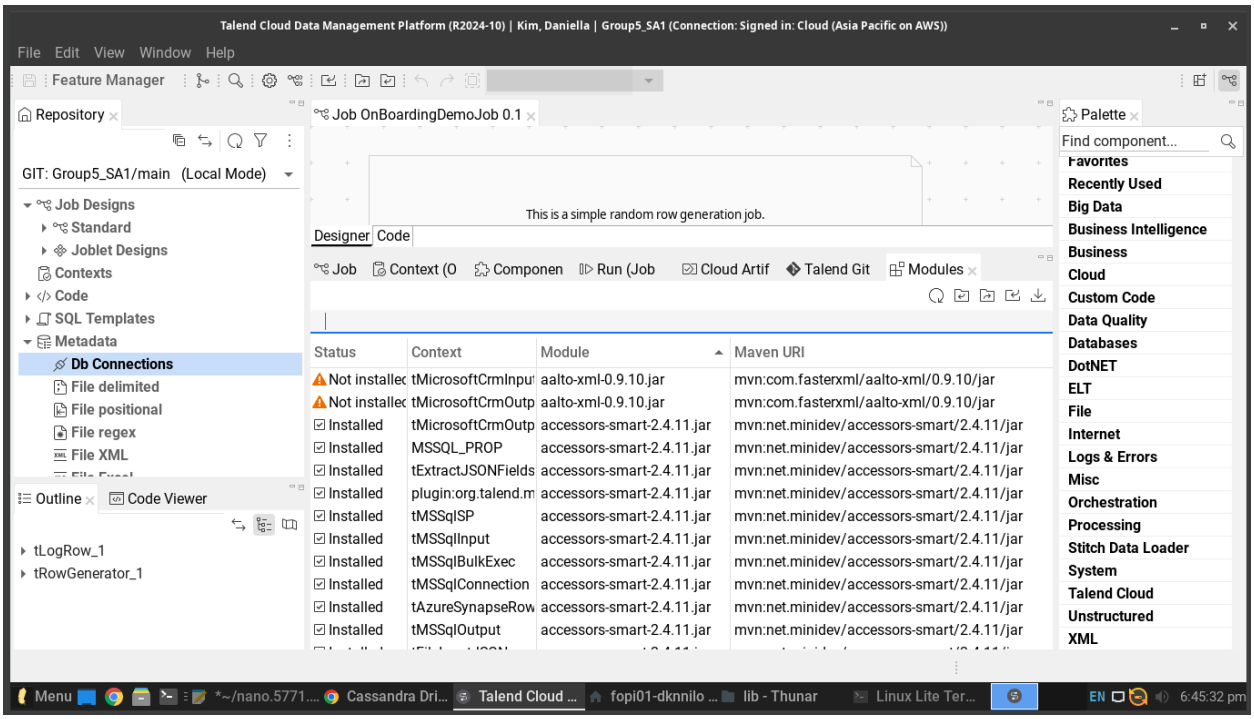
After ensuring the successful download of the `JDBC Driver`, we now moved on to creating a new Talend project. The project is saved in the `Git URL` and contains the following information as shown in the image.

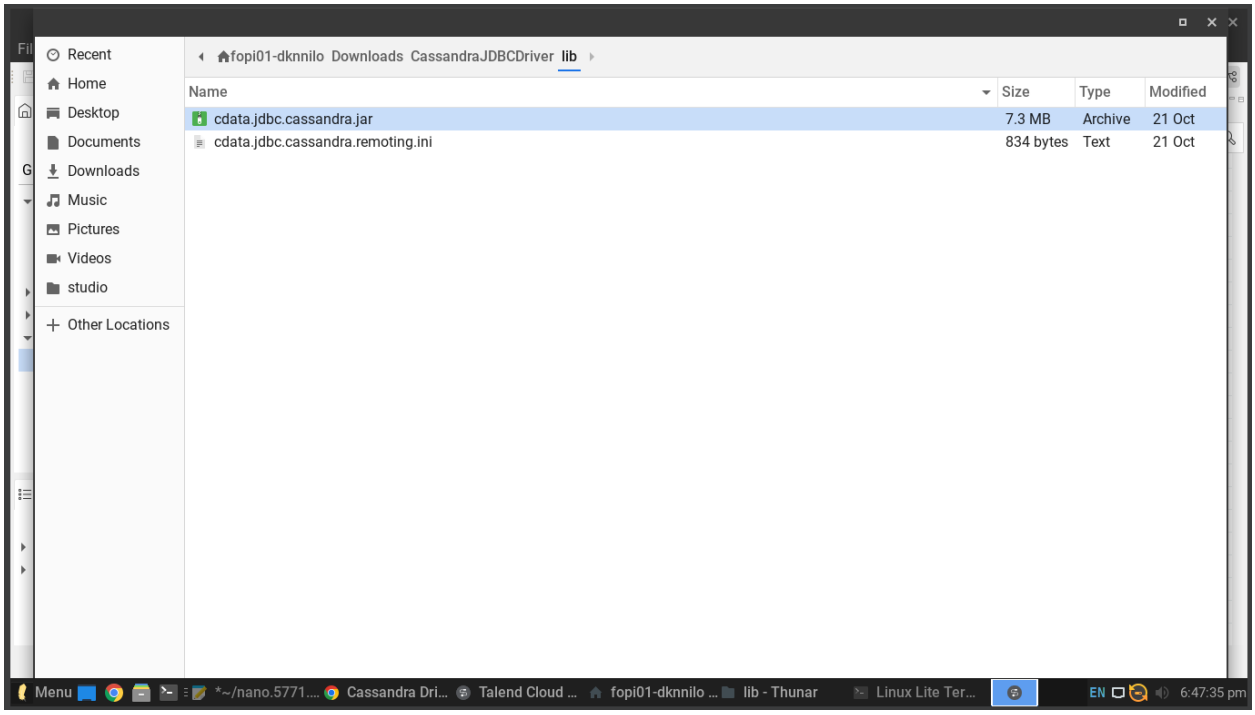


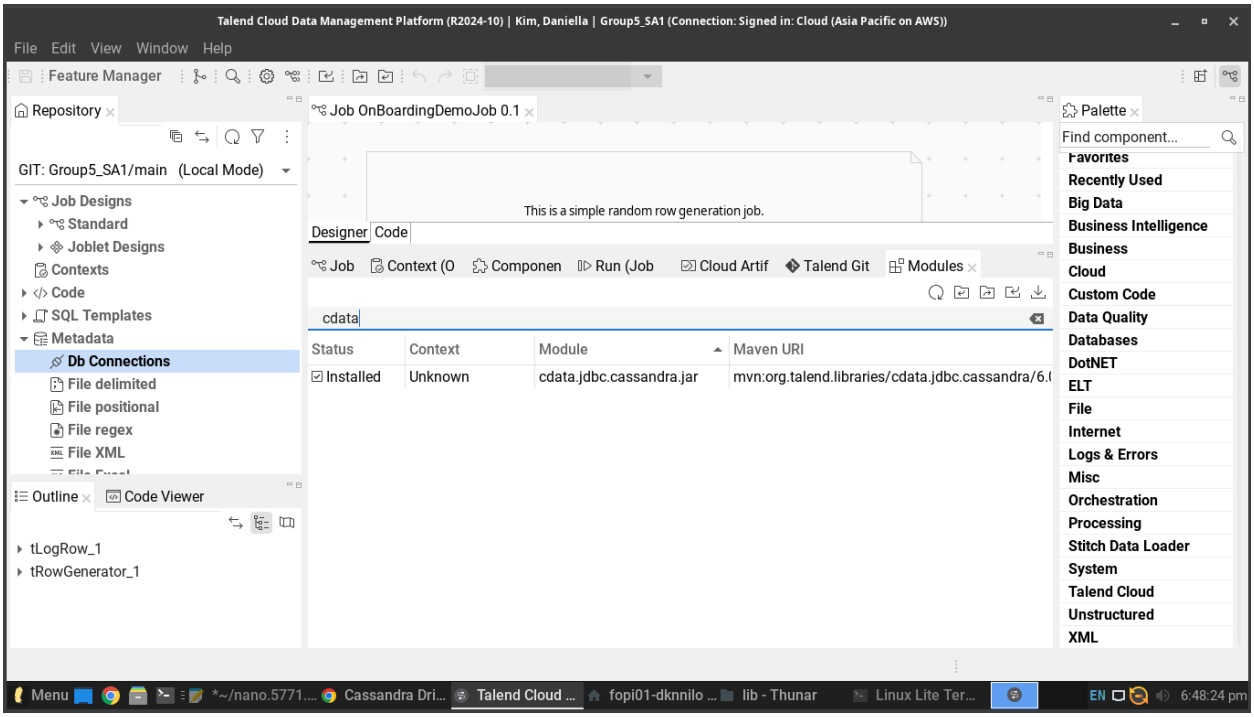
CREATING A CONNECTION

After successfully creating a project, our next step is to create a connection between `Cassandra` and `Talend`. The first thing we did was to choose the `JDBC` button as a database connection on the repository. Then on the `Modules` tab, we clicked the export external driver and loaded the `JDBC Driver` jar file we just downloaded. After loading the driver, we manually verified if it installed properly by typing `cdata` on the search bar.


Database Connection
New Database Connection on repository
Find:
Ingres
JDBC
JavaDB DerbyClient
JavaDB Embeded
JavaDB JCCJDBC
MaxDB
Cancel
Finish
Repository
GIT: Group5_SA1/main (Local Mode)
Job Designs
Standard
Joblet Designs
Contexts
Code
SQL Templates
Metadata
Db Connections
File delimited
File positional
File regex
File XML
Outline
Code Viewer
tLogRow_1
tRowGenerator_1
1 item selected
Palette
Find component...
Favorites
Recently Used
Big Data
Business Intelligence
Business
Cloud
Custom Code
Data Quality
Databases
DotNET
ELT
File
Internet
Logs & Errors
Misc
Orchestration
Processing
Stitch Data Loader
System
Talend Cloud
Unstructured
XML
Confirm

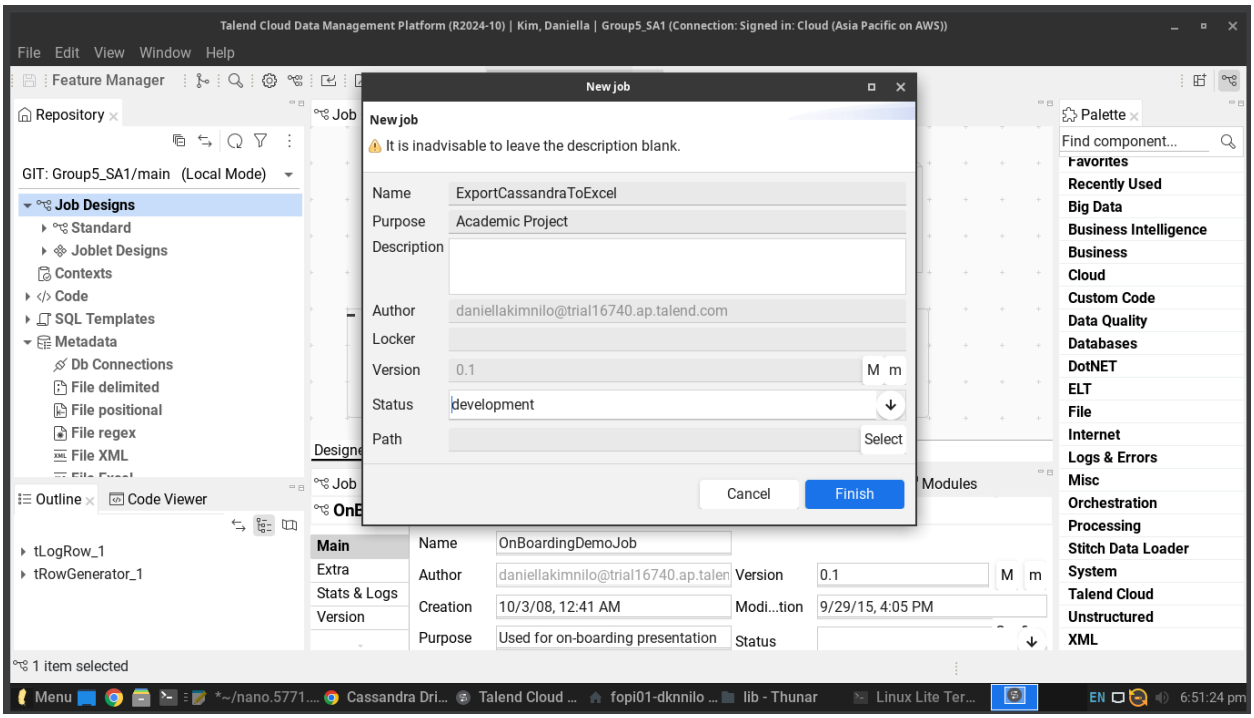

Talend Cloud Data Management Platform (R2024-10) | Kim, Daniella | Group5_SA1 (Connection: Signed in: Cloud (Asia Pacific on AWS))
Job OnBoardingDemoJob 0.1
This is a simple random row generation job.
Designer
Code
Modules
Status
Context
Module
Maven URI
Not installed
tMicrosoftCrmInput
tMicrosoftCrmOutp
Installed
MSSQL_PROP
tExtractJSONFields
plugin:org.talend.m
tMSSqlSP
tMSSqlInput
tMSSqlBulkExec
tMSSqlConnection
tAzureSynapseRow
tMSSqlOutput
aalto-xml-0.9.10.jar
accessors-smart-2.4.11.jar
mvn:com.fasterxml/aalto-xml/0.9.10/jar
mvn:net.minidev/accessors-smart/2.4.11/jar

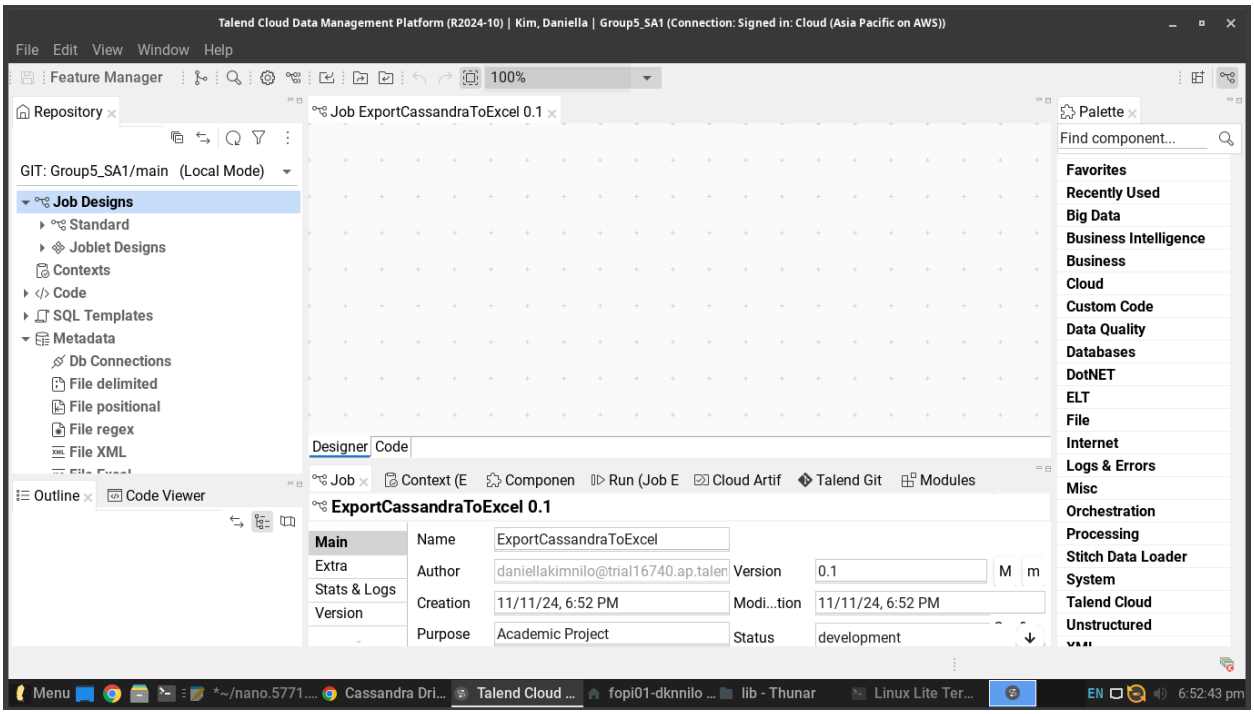

Recent
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
studio
Other Locations
fopi01-dknnilo Downloads CassandraJDBCDriver lib
Name
Size
Type
Modified
cdata.jdbc.cassandra.jar
7.3 MB
Archive
21 Oct
cdata.jdbc.cassandra.remoting.ini
834 bytes
Text
21 Oct
Menu
Cassandra Dri...
Talend Cloud ...
fopi01-dknnilo ...
lib - Thunar
Linux Lite Ter...
EN
6:47:35 pm


Talend Cloud Data Management Platform (R2024-10) | Kim, Daniella | Group5_SA1 (Connection: Signed in: Cloud (Asia Pacific on AWS))
File Edit View Window Help
Feature Manager
Repository
GIT: Group5_SA1/main (Local Mode)
Job Designs
Standard
Joblet Designs
Contexts
Code
SQL Templates
Metadata
Db Connections
File delimited
File positional
File regex
File XML
Outline
Code Viewer
tLogRow_1
tRowGenerator_1
Job OnBoardingDemoJob 0.1
This is a simple random row generation job.
Designer
Code
Job
Context (0
Componen
Run (Job
Cloud Artif
Talend Git
Modules
cdata
Status
Context
Module
Maven URI
Installed
Unknown
cdata.jdbc.cassandra.jar
mvn:org.talend.libraries/cdata.jdbc.cassandra/6.(
Palette
Find component...
Favorites
Recently Used
Big Data
Business Intelligence
Business
Cloud
Custom Code
Data Quality
Databases
DotNET
ELT
File
Internet
Logs & Errors
Misc
Orchestration
Processing
Stitch Data Loader
System
Talend Cloud
Unstructured
XML
Menu
Cassandra Dri...
Talend Cloud ...
fopi01-dknnilo ...
lib - Thunar
Linux Lite Ter...
EN
6:48:24 pm

CREATE A NEW JOB FOR CASSANDRA TO EXCEL

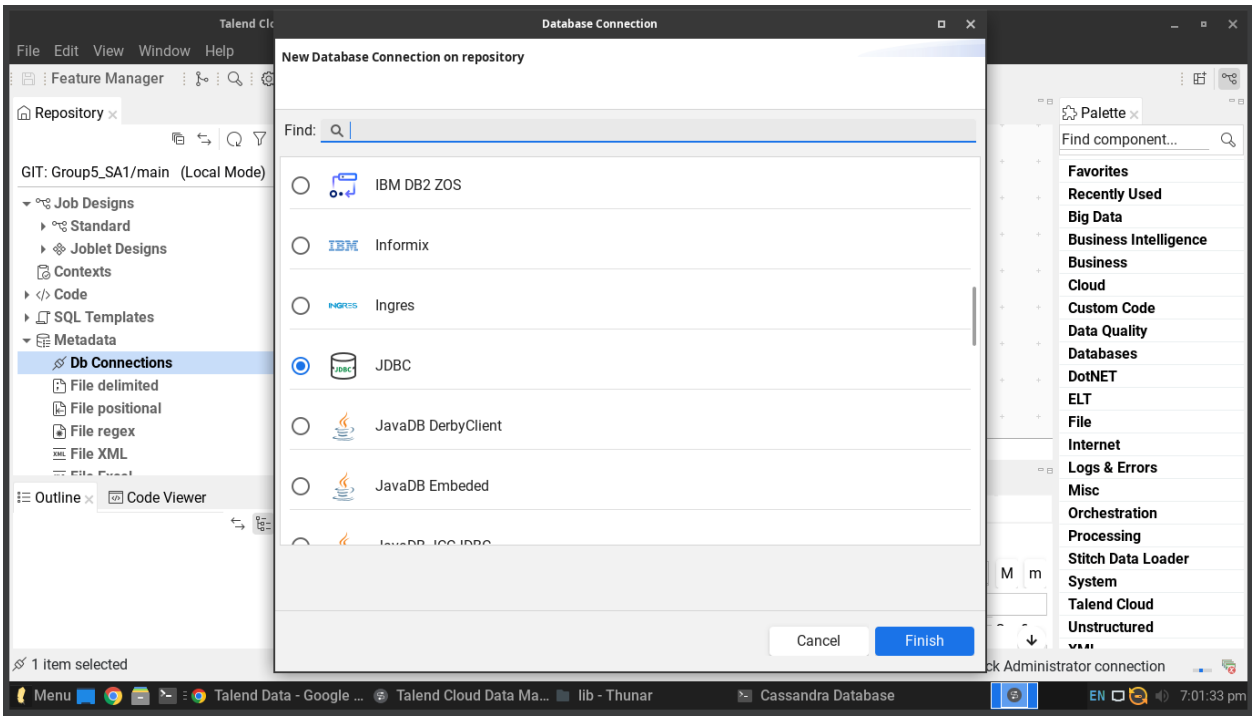
After creating a connection, we proceeded with creating a new job for exporting `Cassandra` data to `Excel`. In this step, we first click the new job button. We input the name of the project (ExportCassandraToExcel), its purpose (Academic Project), its status (development), and then clicked the Finish button. After clicking the button, we are re-directed into the workspace where the newly typed information is shown.

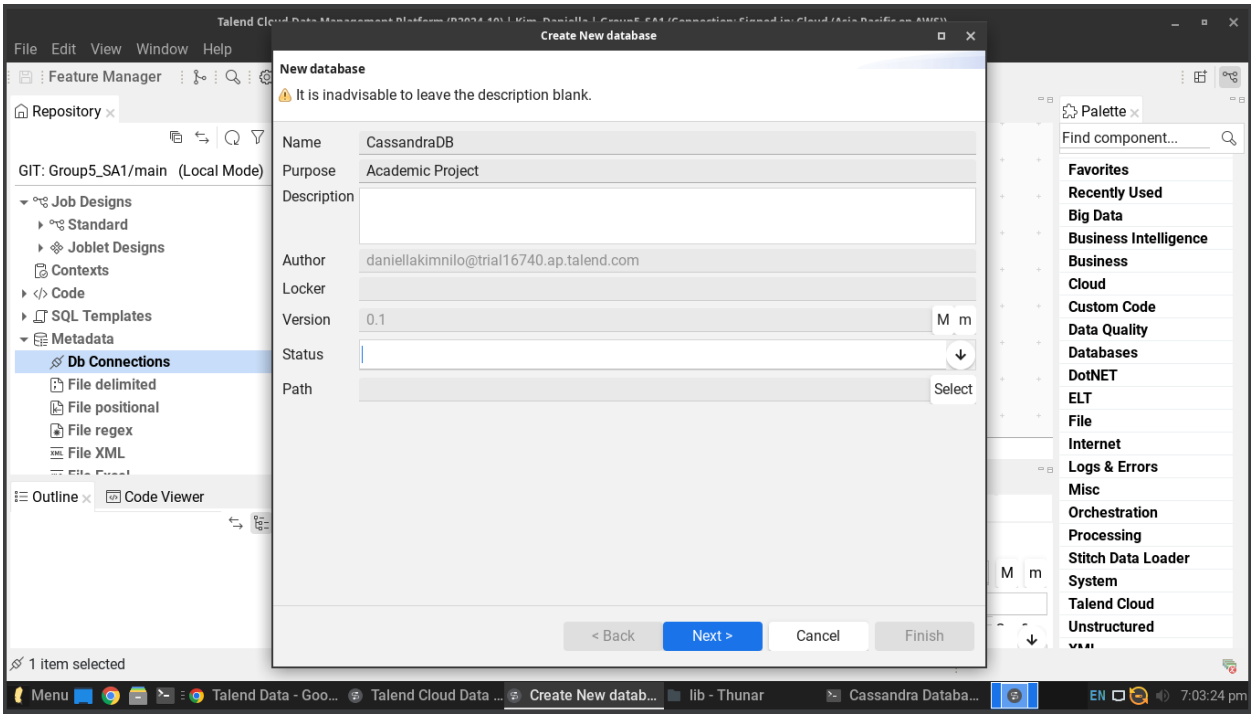


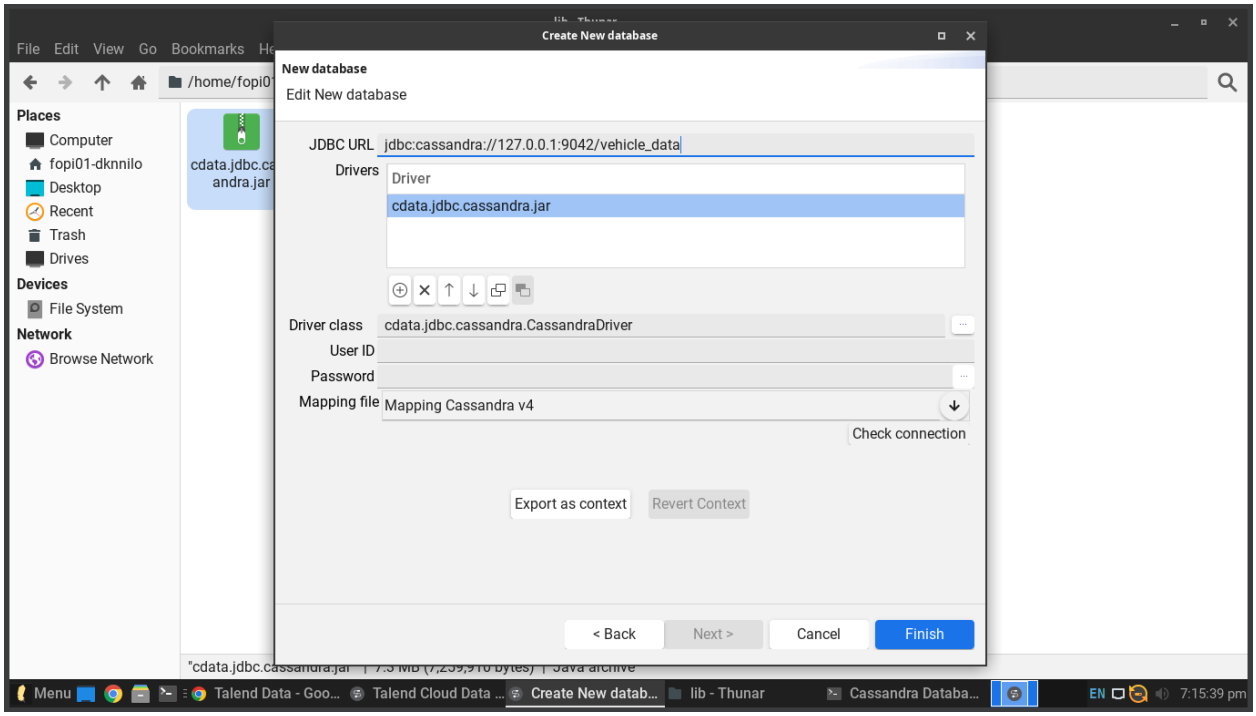


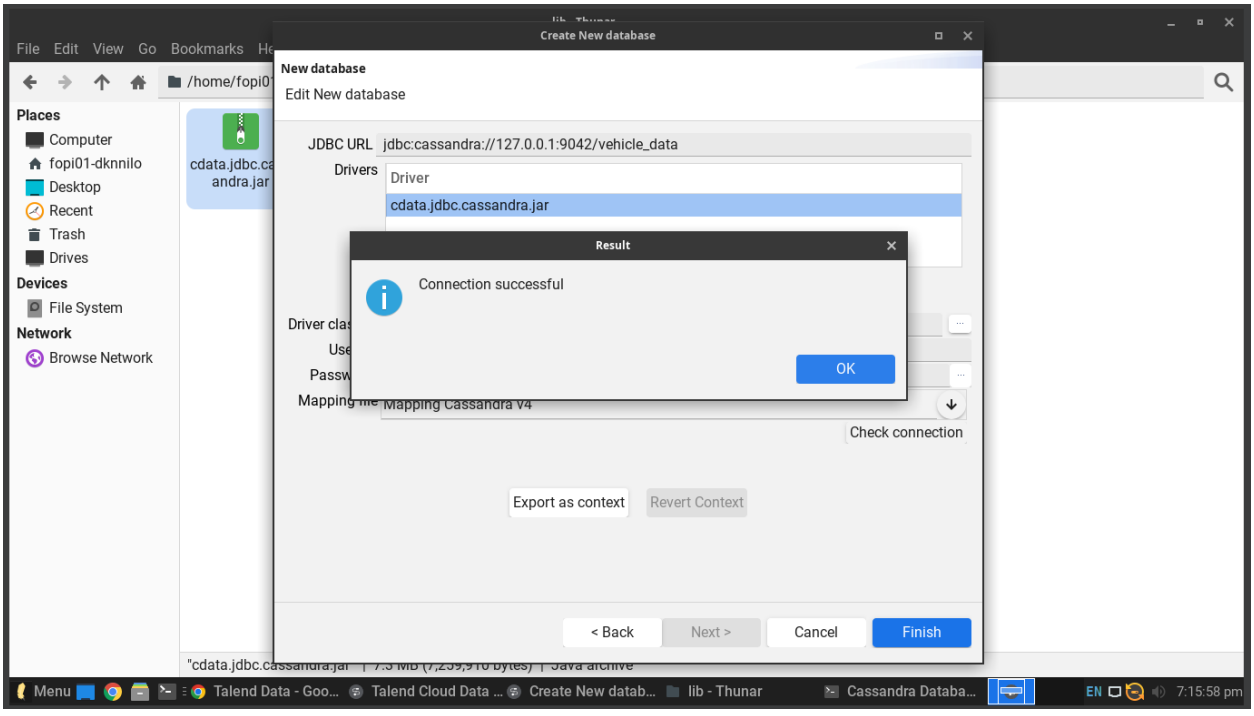
CREATING A JDBC DB CONNECTION

In creating this connection, we first clicked the `JDBC button` for the Database Connection window and entered Cassandra DB for name and Academic Project for Purpose in the Create New database window. We clicked the next button, and it redirected us to another page. On this page, we entered the JDBC URL (`jdbc:cassandra://127.0.0.1:9042/vehicle_data`) and clicked the `cdata.jbdc.cassandra.jar` for the driver. We clicked the finish button to end the process. Another prompt showed our connection process is successful.


Database Connection
New Database Connection on repository
Find:
IBM DB2 ZOS
Informix
Ingres
JDBC
JavaDB DerbyClient
JavaDB Embeded
Cancel
Finish
Repository
GIT: Group5_SA1/main (Local Mode)
Job Designs
Standard
Joblet Designs
Contexts
Code
SQL Templates
Metadata
Db Connections
File delimited
File positional
File regex
File XML
Palette
Find component...
Favorites
Recently Used
Big Data
Business Intelligence
Business
Cloud
Custom Code
Data Quality
Databases
DotNET
ELT
File
Internet
Logs & Errors
Misc
Orchestration
Processing
Stitch Data Loader
System
Talend Cloud
Unstructured
Outline
Code Viewer
1 item selected

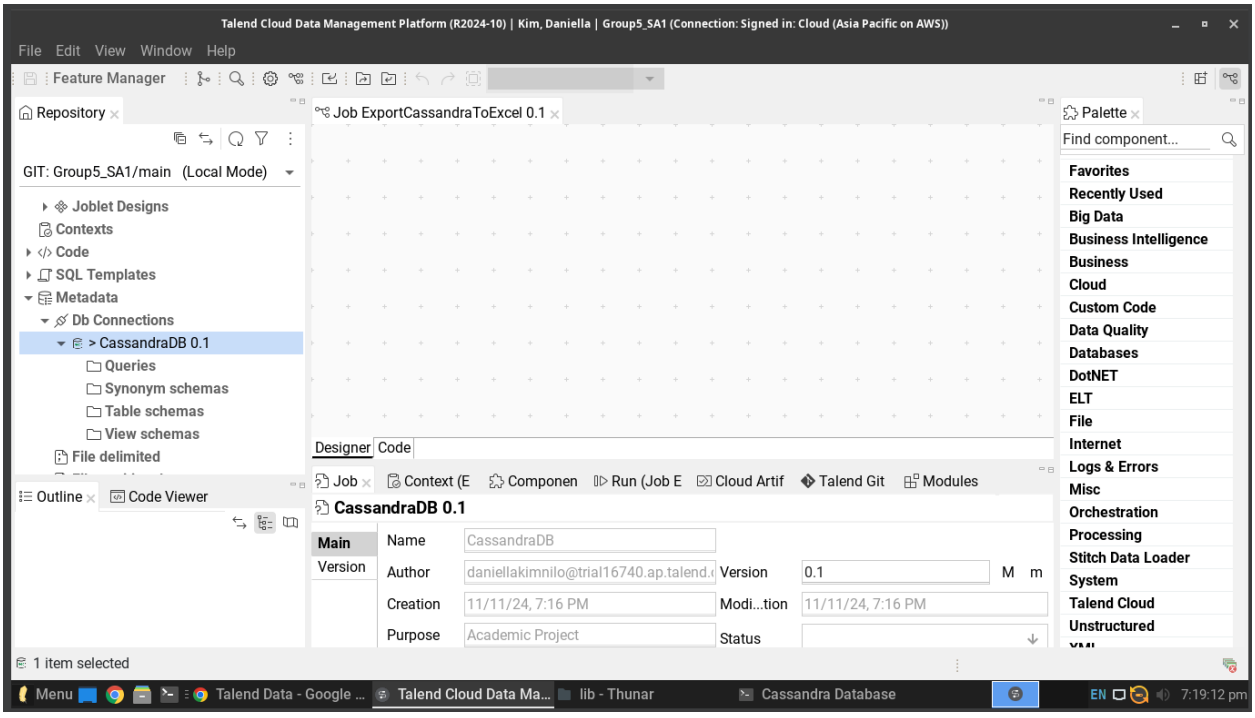

Create New database
New database
It is inadvisable to leave the description blank.
Name
CassandraDB
Purpose
Academic Project
Description
Author
daniellakimnilo@trial16740.ap.talend.com
Locker
Version
0.1
Status
Path
Select
< Back
Next >
Cancel
Finish
Repository
GIT: Group5_SA1/main (Local Mode)
Job Designs
Standard
Joblet Designs
Contexts
Code
SQL Templates
Metadata
Db Connections
File delimited
File positional
File regex
File XML
Palette
Find component...
Favorites
Recently Used
Big Data
Business Intelligence
Business
Cloud
Custom Code
Data Quality
Databases
DotNET
ELT
File
Internet
Logs & Errors
Misc
Orchestration
Processing
Stitch Data Loader
System
Talend Cloud
Unstructured
Outline
Code Viewer
1 item selected

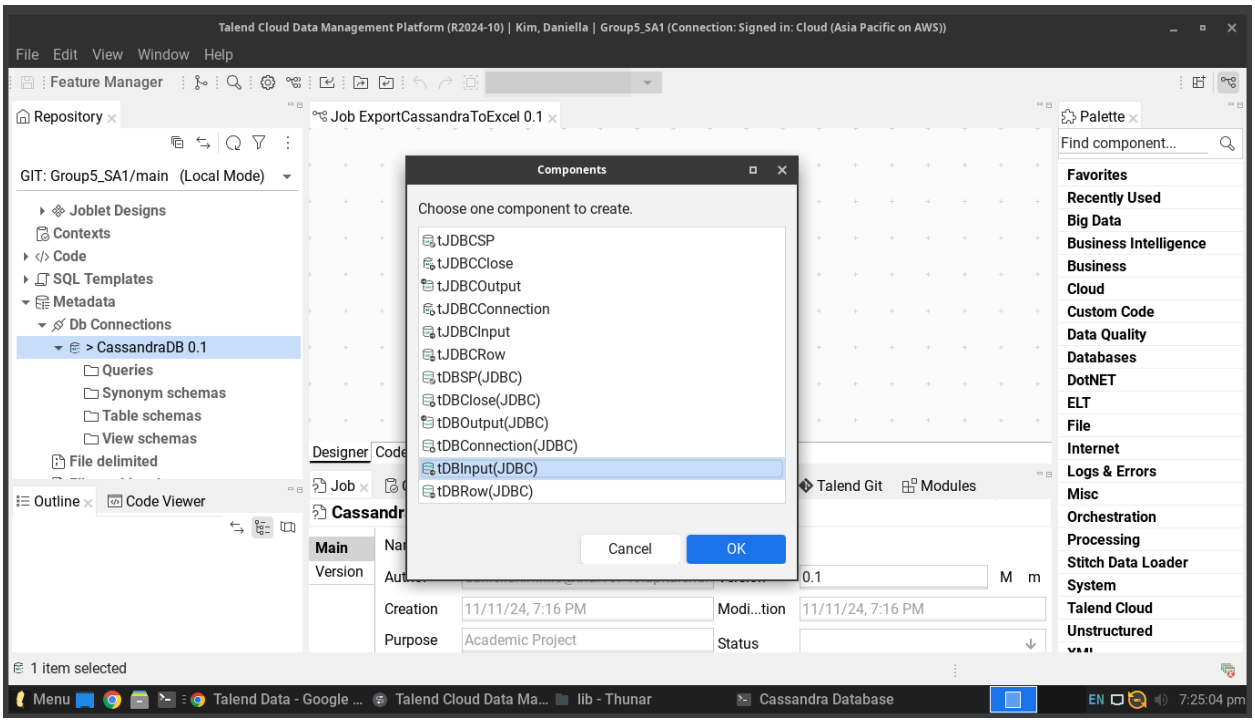

Create New database
New database
Edit New database
JDBC URL
jdbc:cassandra://127.0.0.1:9042/vehicle_data
Drivers
Driver
cdata.jdbc.cassandra.jar
Driver class
cdata.jdbc.cassandra.CassandraDriver
User ID
Password
Mapping file
Mapping Cassandra v4
Check connection
Export as context
Revert Context
< Back
Next >
Cancel
Finish
Places
Computer
fopi01-dknnilo
Desktop
Recent
Trash
Drives
Devices
File System
Network
Browse Network


Create New database
New database
Edit New database
JDBC URL
jdbc:cassandra://127.0.0.1:9042/vehicle_data
Drivers
Driver
cdata.jdbc.cassandra.jar
Result
Connection successful
OK
Mapping Cassandra v4
Check connection
Export as context
Revert Context
< Back
Next >
Cancel
Finish
Places
Computer
fopi01-dknnilo
Desktop
Recent
Trash
Drives
Devices
File System
Network
Browse Network

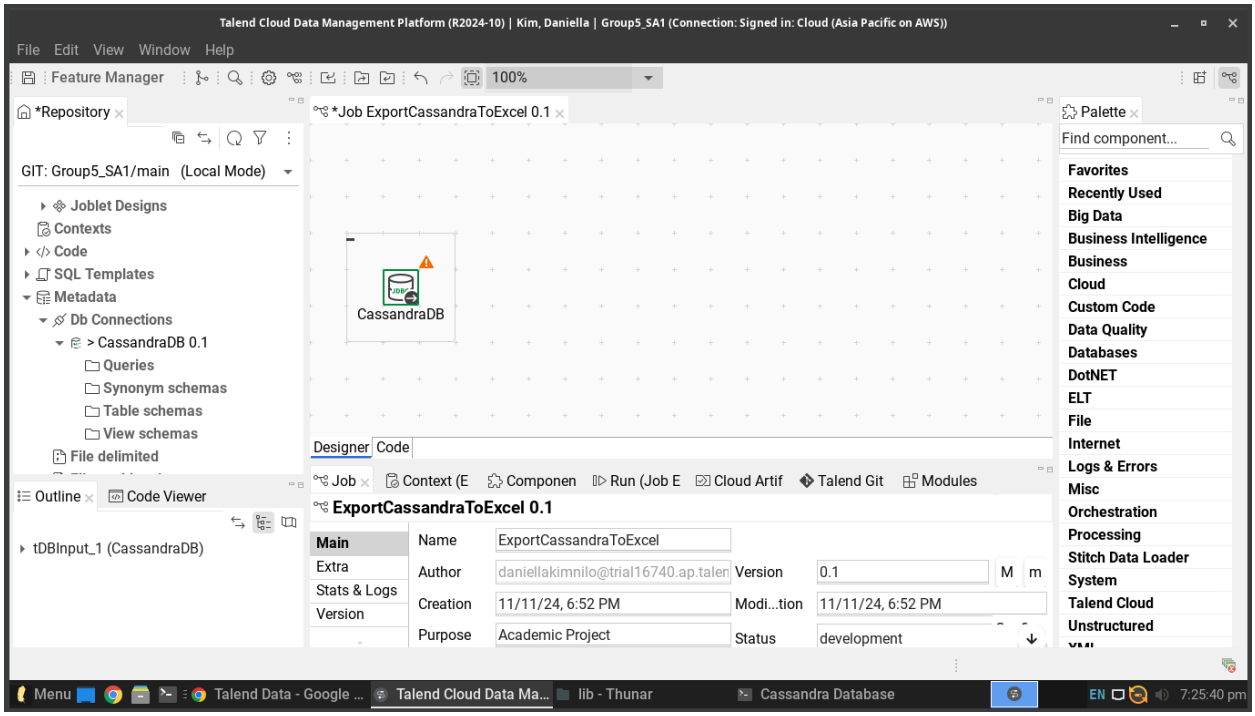
EXPORTING PROCESS

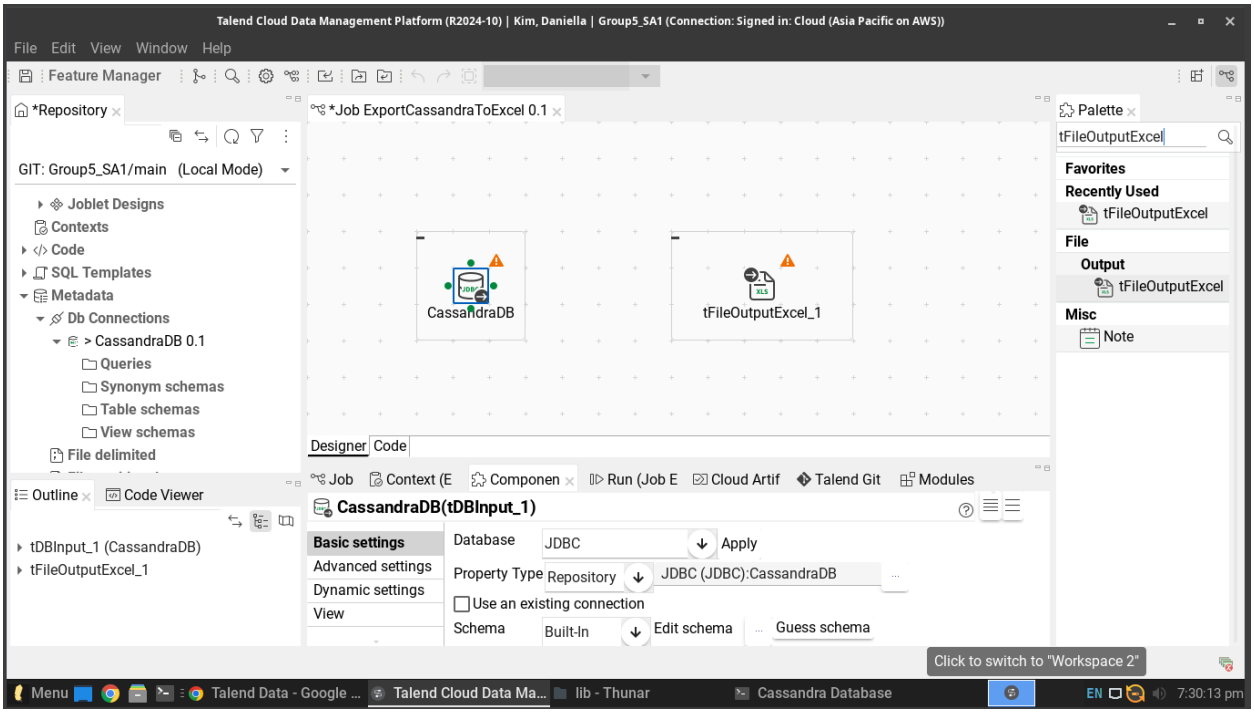
Clicking `OK` on the last prompt brought us back to the Job `ExportCassandraToExcel 0.1` workspace. We dragged the `CassandraDB 0.1`from the left pane and chose `tDBInput(JDBC)` from the list of components. The `tDBInput(JDBC)` is chosen because this component is designed to read data from a database using a `JDBC` connection and then acts as an input component in the Talend job.



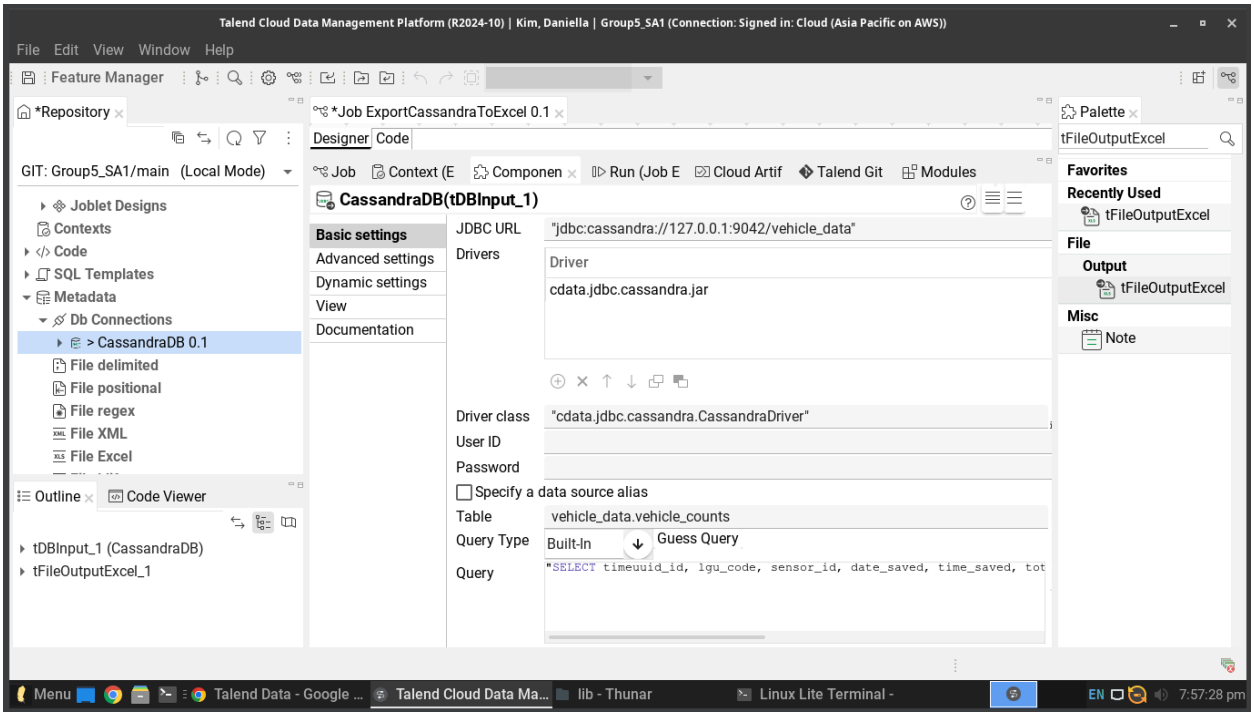


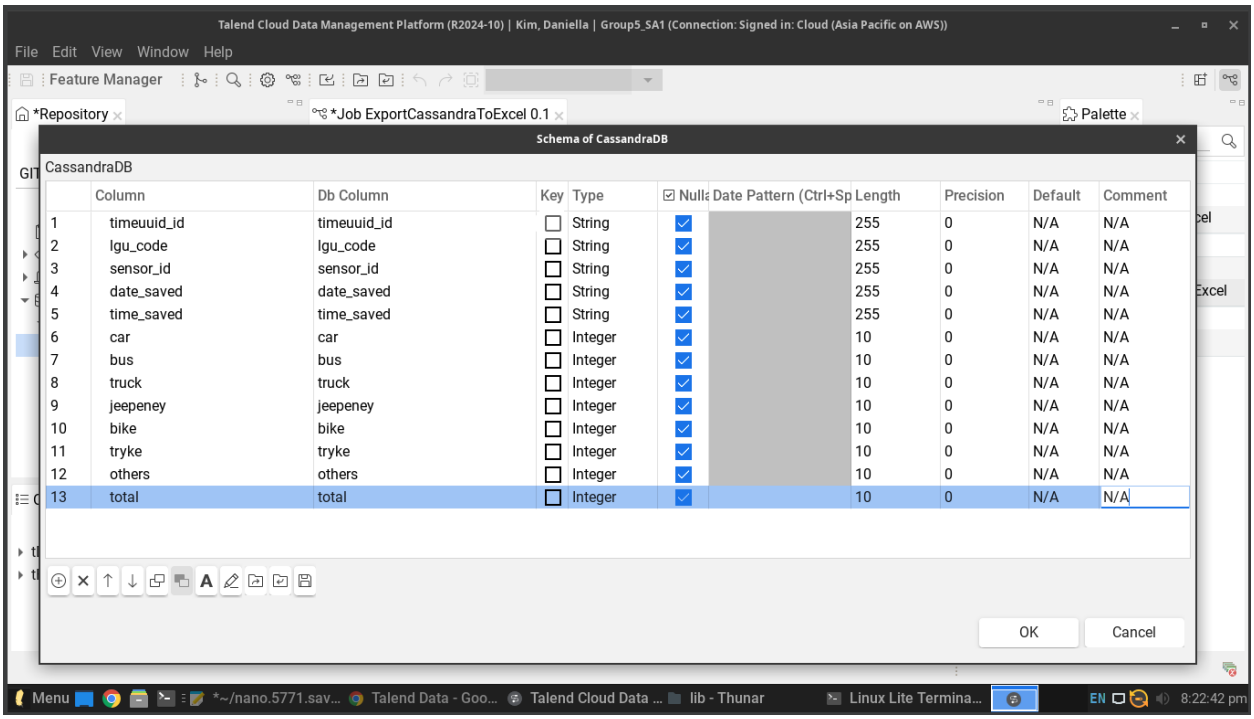
After clicking the `OK` button, the components tab closes, and the `CassandraDB` is imported into the workspace. From the left pallet, go to `Outline` and drag `tFileOutputExcel`. This component will write an `Excel` file with separated data values based on the data stored in the `Cassandra` schema.



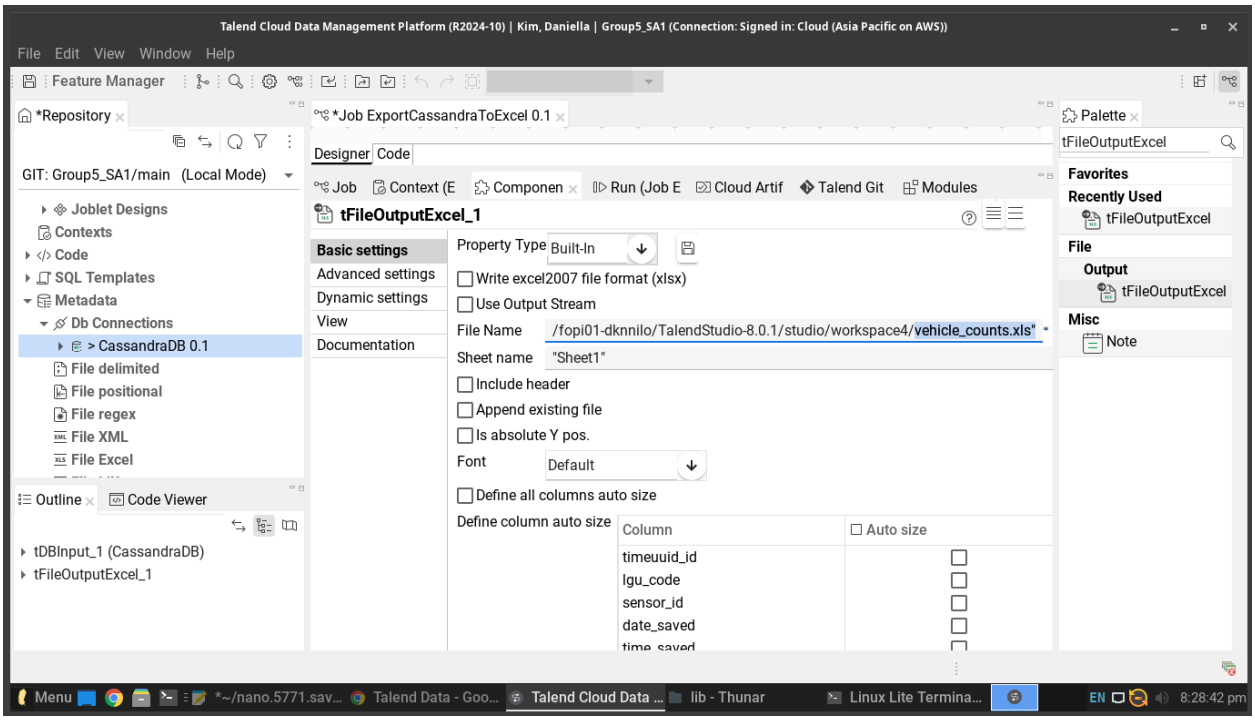


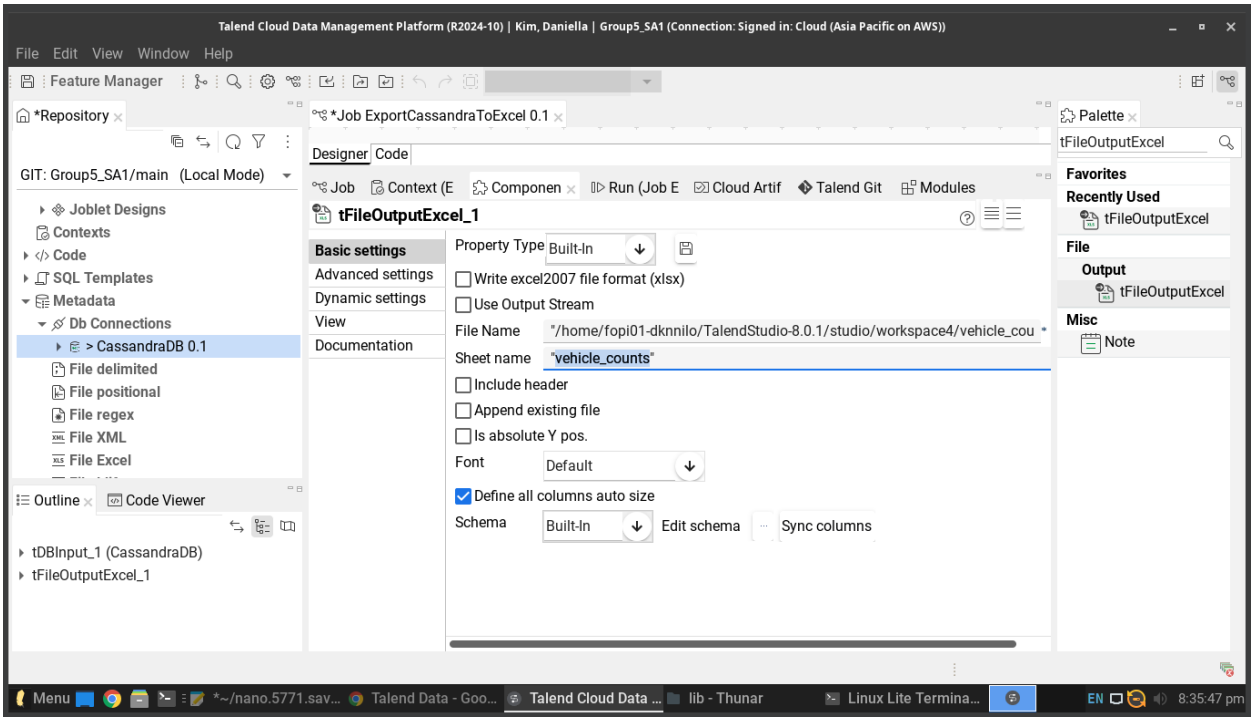
The next process is to configure the `tDBInput_1(CassandraDB)` by clicking it and adjusting the Designer windows upwards. In this window, write `vehicle_counts` in the Table textbox, and then type `SELECT timeuuid_id, lgu_code, sensor_id, date_saved, time_saved, car, bus, truck, jeepney, bike, tryke, others, total FROM vehicle_data.vehicle_counts;` on the Query textbox. Then, create a schema manually to arrange column names and click the `OK` button.

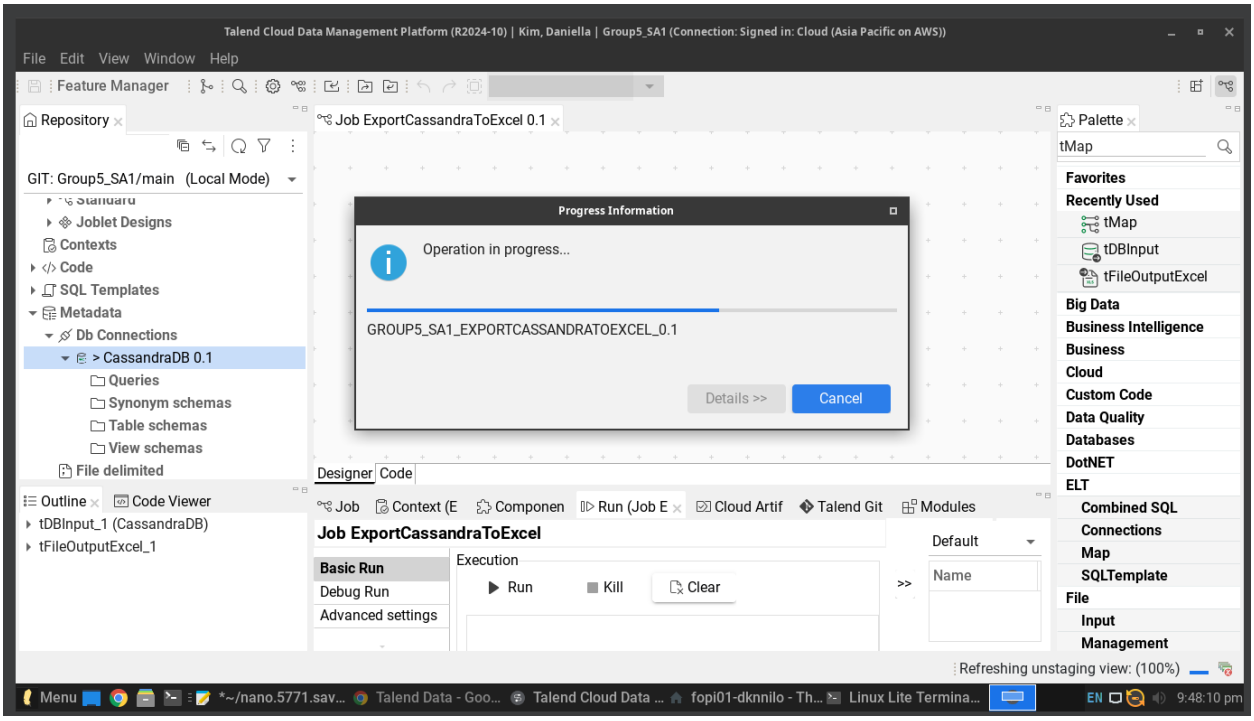

Talend Cloud Data Management Platform (R2024-10) | Kim, Daniella | Group5_SA1 (Connection: Signed in: Cloud (Asia Pacific on AWS))
File Edit View Window Help
Feature Manager
*Repository
*Job ExportCassandraToExcel 0.1
Designer Code
Job Context (E Componen Run (Job E Cloud Artif Talend Git Modules
CassandraDB(tDBInput_1)
Basic settings
Advanced settings
Dynamic settings
View
Documentation
JDBC URL "jdbc:cassandra://127.0.0.1:9042/vehicle_data"
Drivers
Driver
cdata.jdbc.cassandra.jar
Driver class "cdata.jdbc.cassandra.CassandraDriver"
User ID
Password
Specify a data source alias
Table vehicle_data.vehicle_counts
Query Type Built-In
Guess Query
Query
"SELECT timeuuid_id, lgu_code, sensor_id, date_saved, time_saved, tot
Palette
tFileOutputExcel
Favorites
Recently Used
tFileOutputExcel
File
Output
tFileOutputExcel
Misc
Note
GIT: Group5_SA1/main (Local Mode)
Joblet Designs
Contexts
Code
SQL Templates
Metadata
Db Connections
> CassandraDB 0.1
File delimited
File positional
File regex
File XML
File Excel
Outline
Code Viewer
tDBInput_1 (CassandraDB)
tFileOutputExcel_1
Menu
Talend Data - Google ...
Talend Cloud Data Ma...
lib - Thunar
Linux Lite Terminal -
EN
7:57:28 pm


Talend Cloud Data Management Platform (R2024-10) | Kim, Daniella | Group5_SA1 (Connection: Signed in: Cloud (Asia Pacific on AWS))
File Edit View Window Help
Feature Manager
*Repository
*Job ExportCassandraToExcel 0.1
Palette
Schema of CassandraDB
CassandraDB
Column
Db Column
Key
Type
Null
Date Pattern (Ctrl+Sp
Length
Precision
Default
Comment
1 timeuuid_id timeuuid_id String 255 0 N/A N/A
2 lgu_code lgu_code String 255 0 N/A N/A
3 sensor_id sensor_id String 255 0 N/A N/A
4 date_saved date_saved String 255 0 N/A N/A
5 time_saved time_saved String 255 0 N/A N/A
6 car car Integer 10 0 N/A N/A
7 bus bus Integer 10 0 N/A N/A
8 truck truck Integer 10 0 N/A N/A
9 jeepeney jeepeney Integer 10 0 N/A N/A
10 bike bike Integer 10 0 N/A N/A
11 tryke tryke Integer 10 0 N/A N/A
12 others others Integer 10 0 N/A N/A
13 total total Integer 10 0 N/A N/A
OK
Cancel
Menu
Talend Data - Goo...
Talend Cloud Data ...
lib - Thunar
Linux Lite Termina...
EN
8:22:42 pm

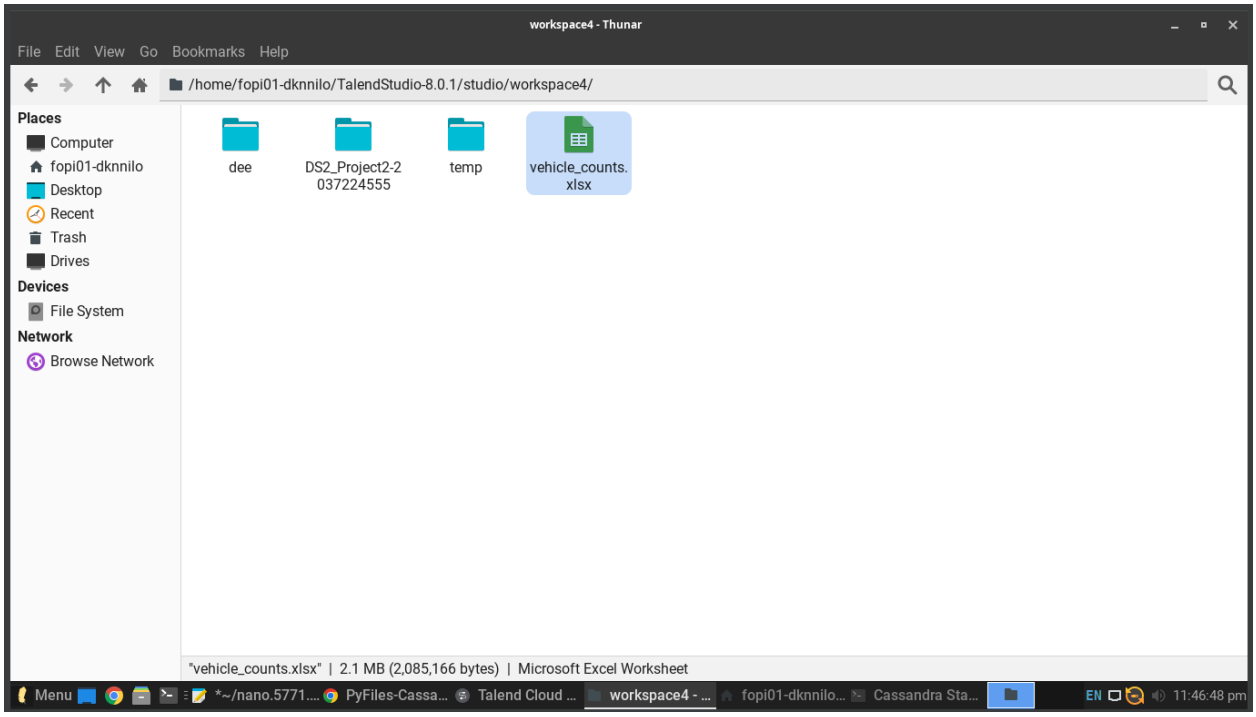
The next step is to connect the `tDBInput_1(CassandraDB)` to `tFileOutputExcel` by manually establishing a connection line between the two components. After establishing a connection, configure the `tFileOutputExcel` by clicking it and adjusting the Designer window. In the Components tab, go to the File Name text box and set the name of the file as `/home/fopi01-dknnilo/TalendStudio-8.0|1/studio/workspace4/vehicle_counts.xls` to convert the output to an `Excel` file. In the Sheet name textbox, remove Sheet1 and replace it with `vehicle_counts`. Run the job and verify the converted `Excel` file in the workspace.

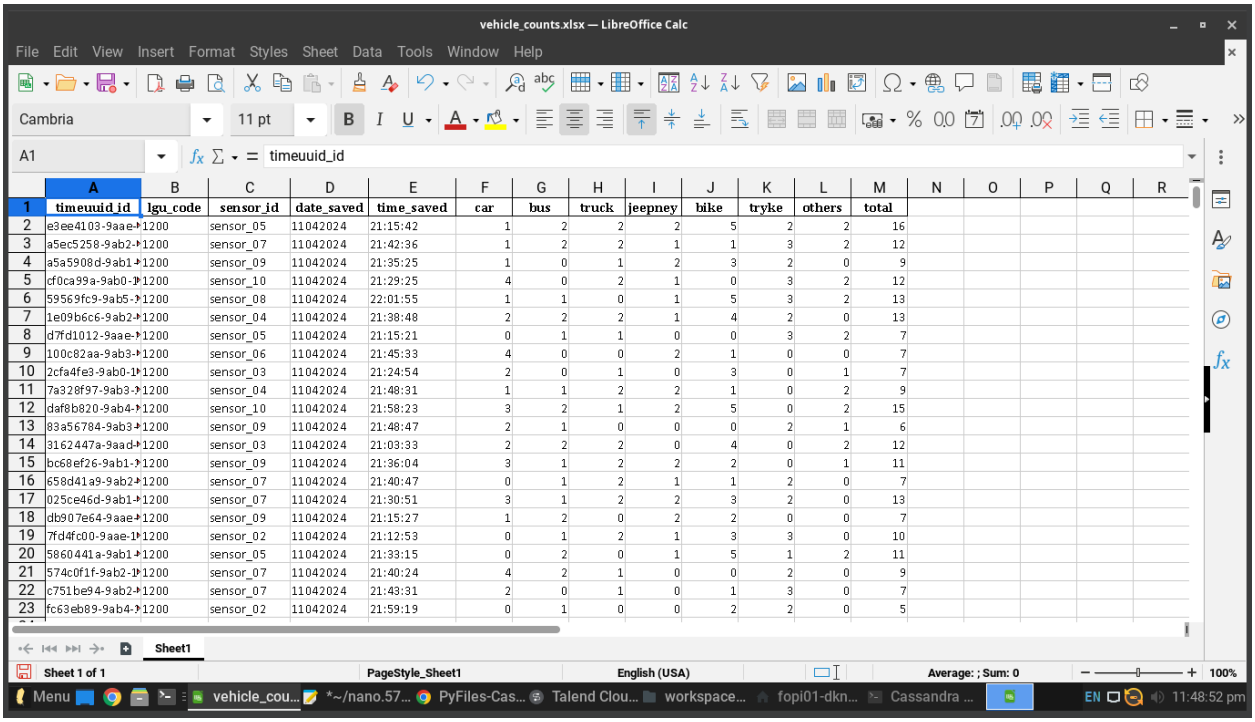



Talend Cloud Data Management Platform (R2024-10) | Kim, Daniella | Group5_SA1 (Connection: Signed in: Cloud (Asia Pacific on AWS))
File Edit View Window Help
Feature Manager
*Repository
GIT: Group5_SA1/main (Local Mode)
Joblet Designs
Contexts
Code
SQL Templates
Metadata
Db Connections
> CassandraDB 0.1
File delimited
File positional
File regex
File XML
File Excel
Outline
Code Viewer
tDBInput_1 (CassandraDB)
tFileOutputExcel_1
*Job ExportCassandraToExcel 0.1
Designer Code
Job Context (E Componen Run (Job E Cloud Artif Talend Git Modules
tFileOutputExcel_1
Basic settings
Advanced settings
Dynamic settings
View
Documentation
Property Type Built-In
Write excel2007 file format (xlsx)
Use Output Stream
File Name "/home/fopi01-dknnilo/TalendStudio-8.0.1/studio/workspace4/vehicle_cou
Sheet name "vehicle_counts"
Include header
Append existing file
Is absolute Y pos.
Font Default
Define all columns auto size
Schema Built-In Edit schema Sync columns
Palette
tFileOutputExcel
Favorites
Recently Used
tFileOutputExcel
File
Output
tFileOutputExcel
Misc
Note
Menu
Talend Cloud Data ...
lib - Thunar
Linux Lite Termina...
EN
8:35:47 pm

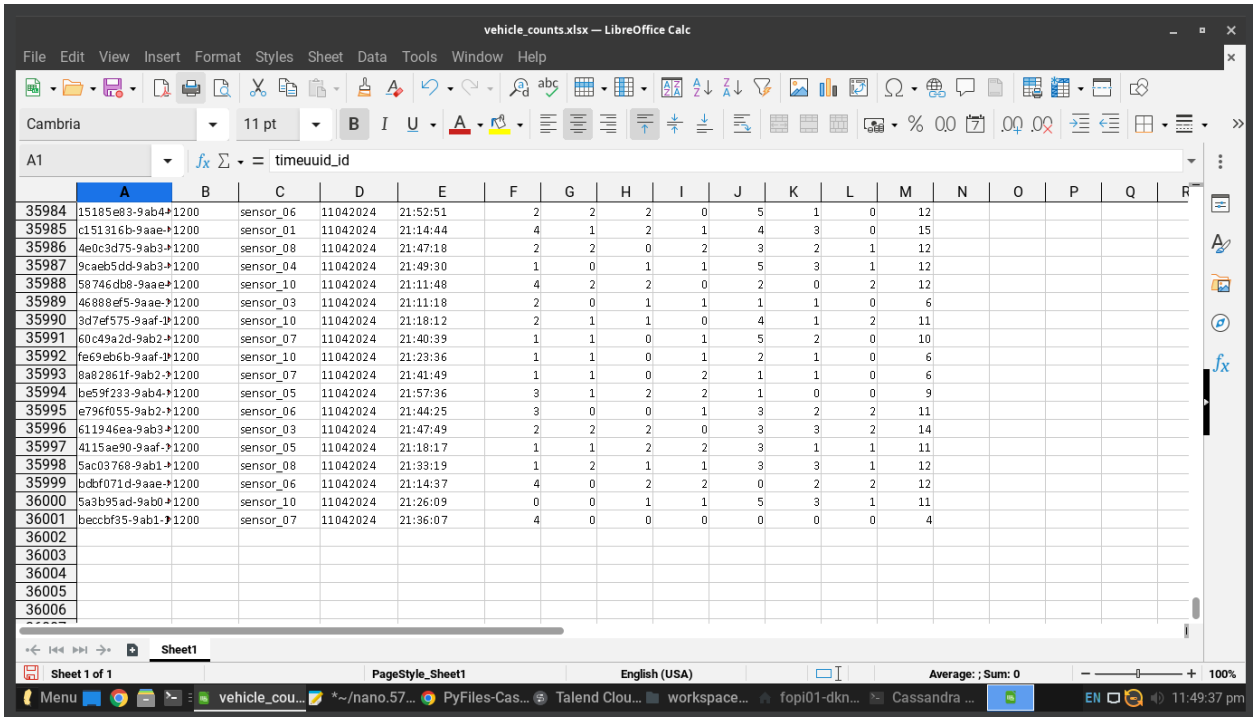

Talend Cloud Data Management Platform (R2024-10) | Kim, Daniella | Group5_SA1 (Connection: Signed in: Cloud (Asia Pacific on AWS))
File Edit View Window Help
Feature Manager
Repository
GIT: Group5_SA1/main (Local Mode)
Joblet Designs
Contexts
Code
SQL Templates
Metadata
Db Connections
> CassandraDB 0.1
Queries
Synonym schemas
Table schemas
View schemas
File delimited
Outline
Code Viewer
tDBInput_1 (CassandraDB)
tFileOutputExcel_1
Job ExportCassandraToExcel 0.1
Progress Information
Operation in progress...
GROUP5_SA1_EXPORTCASSANDRATOEXCEL_0.1
Details >>
Cancel
Designer Code
Job Context (E Componen Run (Job E Cloud Artif Talend Git Modules
Job ExportCassandraToExcel
Basic Run
Debug Run
Advanced settings
Execution
Run
Kill
Clear
Default
Name
Palette
tMap
Favorites
Recently Used
tMap
tDBInput
tFileOutputExcel
Big Data
Business Intelligence
Business
Cloud
Custom Code
Data Quality
Databases
DotNET
ELT
Combined SQL
Connections
Map
SQLTemplate
File
Input
Management
Refreshing unstaging view: (100%)
Menu
Talend Cloud Data ...
fopi01-dknnilo - Th...
Linux Lite Termina...
EN
9:48:10 pm

Go to the `File Manager` and verify if the exported .xls file is in the `/home/fopi01-dknnilo/TalendStudio-8.0|1/studio/workspace4/` directory. Open the .xls file to view the export data. In this `Excel` file, the 36,000 entries from the 10 `sensor_ids` saved on `Cassandra` are shown.





	A	B	C	D	E	F	G	H	I	J	K	L	M
1	timeuuid_id	lgu_code	sensor_id	date_saved	time_saved	car	bus	truck	jeepney	bike	tryke	others	total
2	e3ee4103-9aae-1	1200	sensor_05	11042024	21:15:42	1	2	2	2	5	2	2	16
3	a5ec5258-9ab2-1	1200	sensor_07	11042024	21:42:36	1	2	2	1	1	3	2	12
4	a5a5908d-9ab1-1	1200	sensor_09	11042024	21:35:25	1	0	1	2	3	2	0	9
5	cf0ca99a-9ab0-1	1200	sensor_10	11042024	21:29:25	4	0	2	1	0	3	2	12
6	59569fc9-9ab5-1	1200	sensor_08	11042024	22:01:55	1	1	0	1	5	3	2	13
7	1e09b6c6-9ab2-1	1200	sensor_04	11042024	21:38:48	2	2	2	1	4	2	0	13
8	d7fd1012-9aae-1	1200	sensor_05	11042024	21:15:21	0	1	1	0	0	3	2	7
9	100c82aa-9ab3-1	1200	sensor_06	11042024	21:45:33	4	0	0	2	1	0	0	7
10	2cfa4fe3-9ab0-1	1200	sensor_03	11042024	21:24:54	2	0	1	0	3	0	1	7
11	7a328f97-9ab3-1	1200	sensor_04	11042024	21:48:31	1	1	2	2	1	0	2	9
12	daf8b820-9ab4-1	1200	sensor_10	11042024	21:58:23	3	2	1	2	5	0	2	15
13	83a56784-9ab3-1	1200	sensor_09	11042024	21:48:47	2	1	0	0	0	2	1	6
14	3162447a-9aad-1	1200	sensor_03	11042024	21:03:33	2	2	2	0	4	0	2	12
15	bc68ef26-9ab1-1	1200	sensor_09	11042024	21:36:04	3	1	2	2	2	0	1	11
16	658d41a9-9ab2-1	1200	sensor_07	11042024	21:40:47	0	1	2	1	1	2	0	7
17	025ce46d-9ab1-1	1200	sensor_07	11042024	21:30:51	3	1	2	2	3	2	0	13
18	db907e64-9aae-1	1200	sensor_09	11042024	21:15:27	1	2	0	2	2	0	0	7
19	7fd4fc00-9aae-1	1200	sensor_02	11042024	21:12:53	0	1	2	1	3	3	0	10
20	5860441a-9ab1-1	1200	sensor_05	11042024	21:33:15	0	2	0	1	5	1	2	11
21	574c0f1f-9ab2-1	1200	sensor_07	11042024	21:40:24	4	2	1	0	0	2	0	9
22	c751be94-9ab2-1	1200	sensor_07	11042024	21:43:31	2	0	1	0	1	3	0	7
23	fc63eb89-9ab4-1	1200	sensor_02	11042024	21:59:19	0	1	0	0	2	2	0	5



	A	B	C	D	E	F	G	H	I	J	K	L	M
35984	15185e83-9ab4-	1200	sensor_06	11042024	21:52:51	2	2	2	0	5	1	0	12
35985	c151316b-9aae-	1200	sensor_01	11042024	21:14:44	4	1	2	1	4	3	0	15
35986	4e0c3d75-9ab3-	1200	sensor_08	11042024	21:47:18	2	2	0	2	3	2	1	12
35987	9caeb5dd-9ab3-	1200	sensor_04	11042024	21:49:30	1	0	1	1	5	3	1	12
35988	58746db8-9aae-	1200	sensor_10	11042024	21:11:48	4	2	2	0	2	0	2	12
35989	46888ef5-9aae-	1200	sensor_03	11042024	21:11:18	2	0	1	1	1	1	0	6
35990	3d7ef575-9aaf-1	1200	sensor_10	11042024	21:18:12	2	1	1	0	4	1	2	11
35991	60c49a2d-9ab2-	1200	sensor_07	11042024	21:40:39	1	1	0	1	5	2	0	10
35992	fe69eb6b-9aaf-1	1200	sensor_10	11042024	21:23:36	1	1	0	1	2	1	0	6
35993	8a82861f-9ab2-	1200	sensor_07	11042024	21:41:49	1	1	0	2	1	1	0	6
35994	be59f233-9ab4-	1200	sensor_05	11042024	21:57:36	3	1	2	2	1	0	0	9
35995	e796f055-9ab2-	1200	sensor_06	11042024	21:44:25	3	0	0	1	3	2	2	11
35996	611946ea-9ab3-	1200	sensor_03	11042024	21:47:49	2	2	2	0	3	3	2	14
35997	4115ae90-9aaf-	1200	sensor_05	11042024	21:18:17	1	1	2	2	3	1	1	11
35998	5ac03768-9ab1-	1200	sensor_08	11042024	21:33:19	1	2	1	1	3	3	1	12
35999	bdbf071d-9aae-	1200	sensor_06	11042024	21:14:37	4	0	2	2	0	2	2	12
36000	5a3b95ad-9ab0-	1200	sensor_10	11042024	21:26:09	0	0	1	1	5	3	1	11
36001	beccbf35-9ab1-	1200	sensor_07	11042024	21:36:07	4	0	0	0	0	0	0	4
36002													
36003													
36004													
36005													
36006													

REFERENCES:

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Qlik Talend. (n.d.). *TFileOutputExcel*. Talend Components for Jobs Help. https://help.qlik.com/talend/en-US/components/8.0/excel/tfileoutputexcel

CData Software. (n.d.). *Cassandra JDBC driver*. Cassandra JDBC driver | Easily connect to live cassandra data. https://www.cdata.com/drivers/cassandra/jdbc/