**EPWMD MIGRATOR TOOL**

**About the Tool**

* This tool uploads data from Excel Database declared in the config file to Solr core qc\_biz, and Cassandra Tables qc\_biz, ec\_compliance, epwmd\_mission\_orders and epwmd\_violations.
* The Document fields that are uploaded to solr contains the following fields:

1. establishment\_id - system generated UUID
2. bpn - Business permit number/MP number
3. trade\_name - company name
4. risk\_level
5. business\_nature
6. loc\_street - street address
7. loc\_brgy - barangay address
8. loc\_district - district address
9. emails - email address/contact
10. waterway
11. geocode - longitude|latitude
12. tel\_nos - telephone number
13. occupancy\_type - stand alone/Line
14. line\_occupant
15. total\_employees
16. lot\_area\_sqm
17. work\_sched\_time
18. work\_sched\_days

* The Document fields that are uploaded to cassandra table qc\_biz contains the following fields:

1. establishment\_id - system generated UUID
2. bpn - Business permit number/MP number
3. trade\_name - company name
4. risk\_level
5. business\_nature
6. loc\_street - street address
7. loc\_brgy - barangay address
8. loc\_district - district address
9. emails - email address/contact
10. waterway
11. geocode - longitude|latitude
12. tel\_nos - telephone number
13. occupancy\_type - stand alone/Line
14. line\_occupant
15. total\_employees
16. lot\_area\_sqm
17. work\_sched\_time
18. work\_sched\_days
19. date\_created - configurable
20. created\_by - configurable

* The Document fields that are uploaded to cassandra table ec\_compliance contains the following fields:

1. establishment\_id - system generated UUID
2. clearance\_type- New/Renewal
3. date\_applied - Date of Issuance
4. ctrl\_no - Control number
5. bpn - Business permit number/MP number
6. risk\_level
7. business\_nature
8. submitted\_docs\_validity - Map<document, validity date>
9. submitted\_docs\_issued - Map<document, date issued>
10. mission\_order\_no
11. payment\_date
12. amt\_paid - Map<fee, amount>
13. or\_no = official receipt number
14. date\_created - configurable
15. created\_by - configurable

* The Document fields that are uploaded to cassandra table epwmd\_mission\_orders contains the following fields:

1. establishment\_id - system generated UUID
2. bpn - Business permit number/MP number
3. inspection\_date
4. mission\_order\_no
5. case\_officer
6. date\_created - configurable
7. created\_by - configurable

* The Document fields that are uploaded to cassandra table epwmd\_violations contains the following fields:

1. establishment\_id - system generated UUID
2. bpn - Business permit number/MP number
3. violation\_id
4. date\_issued
5. offence\_nature
6. Officer
7. payment\_date
8. total\_amt\_paid
9. or\_no - official receipt number
10. date\_created - configurable
11. created\_by - configurable

* The Document fields that are uploaded to cassandra table epwmd\_solid\_waste contains the following fields:

1. establishment\_id - system generated UUID
2. date\_applied - Date of Issuance
3. mission\_order\_no
4. inspection\_date = Date of inspection
5. daily\_waste\_generation = Map<waste type, daily generation>
6. hauler\_collection\_frequency = Map<hauler, collection frequency>
7. date\_created - configurable
8. created\_by - configurable

* The Document fields that are uploaded to cassandra table epwmd\_hazardous\_waste contains the following fields:

1. establishment\_id - system generated UUID
2. date\_applied - Date of Issuance
3. mission\_order\_no
4. inspection\_date = Date of inspection
5. daily\_waste\_generation = Map<waste type, daily generation>
6. hauler\_collection\_frequency = Map<hauler, collection frequency>
7. date\_created - configurable
8. created\_by - configurable

* The Document fields that are uploaded to cassandra table epwmd\_structural\_requirements contains the following fields:

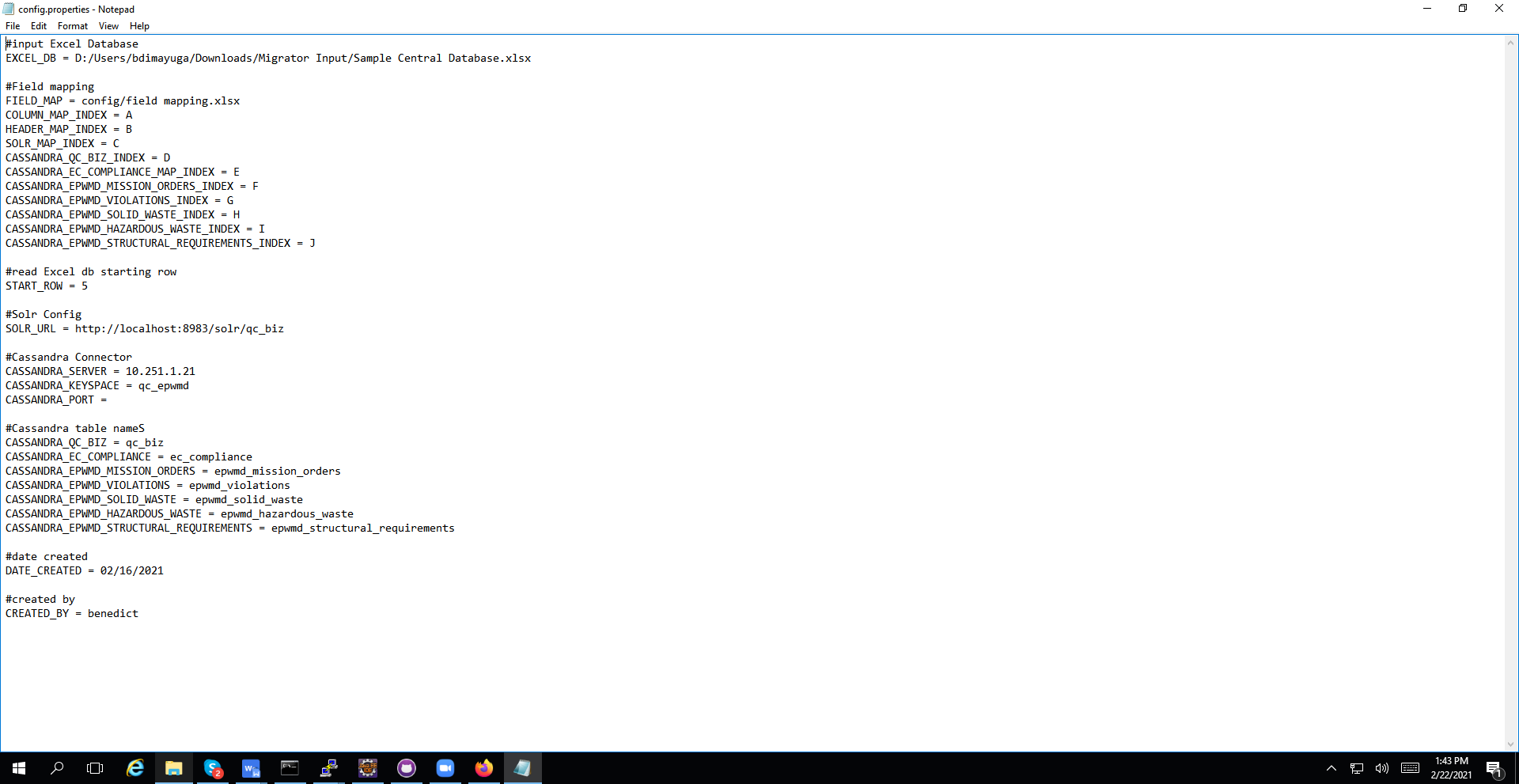
1. establishment\_id - system generated UUID
2. date\_applied - Date of Issuance
3. mission\_order\_no
4. inspection\_date = Date of inspection
5. septic\_tank
6. stp\_wwtf
7. sewerage\_connection
8. grease\_trap
9. grease\_interceptor
10. oil\_water\_separator
11. materials\_recovery
12. emission\_source
13. painting\_booth
14. sound\_proofing
15. date\_created - configurable
16. created\_by - configurable

**Tool Requirements**

·         The users must be given a read access to the input path and write access rights to the log path defined in **config.properties** file.

·         Java Development Kit 8 (JDK 8) must be installed in the machine.

**Tool Configuration File Settings (config.properties)**



EXCEL\_DB = input excel file

FIELD\_MAP = field mapping excel file

COLUMN\_MAP\_INDEX = column index of the columns

HEADER\_MAP\_INDEX = column index of headers

SOLR\_MAP\_INDEX = column index of solr field mapping

CASSANDRA\_QC\_BIZ\_INDEX = column index of qc\_biz cassandra table field mapping

CASSANDRA\_EC\_COMPLIANCE\_MAP\_INDEX = column index of ec\_compliance cassandra table field mapping CASSANDRA\_EPWMD\_MISSION\_ORDERS\_INDEX = column index of epwmd\_mission\_orders cassandra table field mapping

CASSANDRA\_EPWMD\_VIOLATIONS\_INDEX = column index of epwmd\_violations cassandra table field mapping

CASSANDRA\_EPWMD\_SOLID\_WASTE\_INDEX = column index of epwmd\_solid\_waste cassandra table field mapping

CASSANDRA\_EPWMD\_HARARDOUS\_WASTE\_INDEX = column index of epwmd\_hazardous\_waste cassandra table field mapping

CASSANDRA\_EPWMD\_STRUCTURAL\_REQUIREMENTS\_INDEX = column index of epwmd\_structural\_requirements cassandra table field mapping

START\_ROW = row of the input excel file to start reading from

SOLR\_URL =url of solr

#Cassandra Connector

CASSANDRA\_SERVER = ip address of cassandra server

CASSANDRA\_KEYSPACE = keyspace to be used

CASSANDRA\_PORT = n/a

CASSANDRA\_QC\_BIZ = qc\_biz

CASSANDRA\_EC\_COMPLIANCE = ec\_compliance

CASSANDRA\_EPWMD\_MISSION\_ORDERS = epwmd\_mission\_orders

CASSANDRA\_EPWMD\_VIOLATIONS = epwmd\_violations

CASSANDRA\_EPWMD\_SOLID\_WASTE= epwmd\_solid\_waste

CASSANDRA\_EPWMD\_HAZARDOUS\_WASTE= epwmd\_hazardous\_waste

CASSANDRA\_EPWMD\_STRUCTURAL\_REQUIREMENTS= epwmd\_structural\_requirements

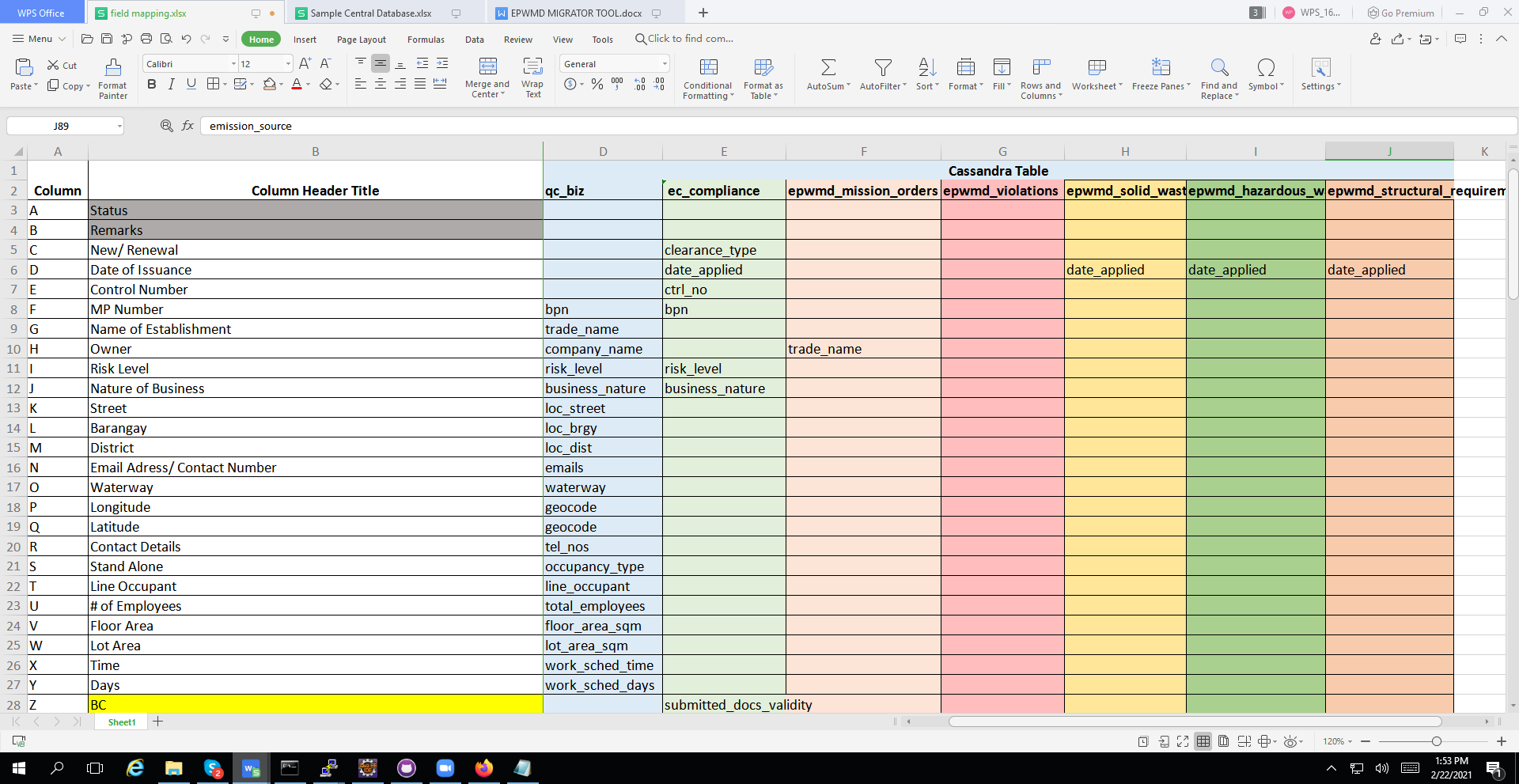
DATE\_CREATED

CREATED\_BY

The field mapping.xlsx contains the mapping of data for solr and cassandra upload.

A row consists of column index and header title and may or may not have corresponding fields from solr and cassandra columns.

The field “hauler\_collection\_frequency” of epwmd\_solid\_waste is type map<text,text>. The key is equal to the cell value of the “hauler” cell and the value is equal to the next cell’s cell value.



If ever a field is needed to be added, just add a row. Make sure to add value to the column header title and the column where the new field will fetch its value from the excel database. Same goes for deleting a field, just delete the entire row of the field that should be deleted.

**Running the Application**

Deploy solr server: open command prompt,

Type :cd (location of bin folder of currently installed solr)

e.g. cd C:/solr-7.7.3/bin

Type: solr start

Check and update config.properties to desired inputs then save

Chech the input excel file, make sure that all date related columns are of type “long date”

In Command prompt, go to the extracted runnable jar file location

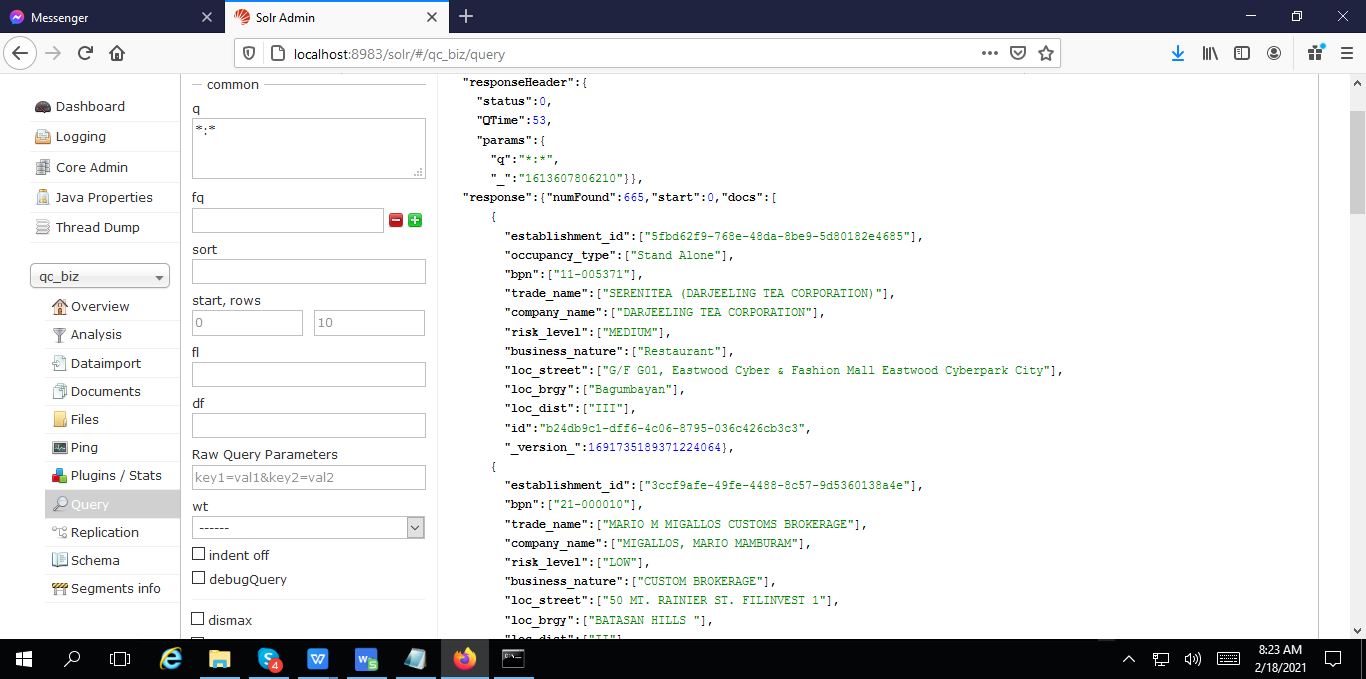
  e.g. cd C:/jars/migrator\_tool

Run jar file

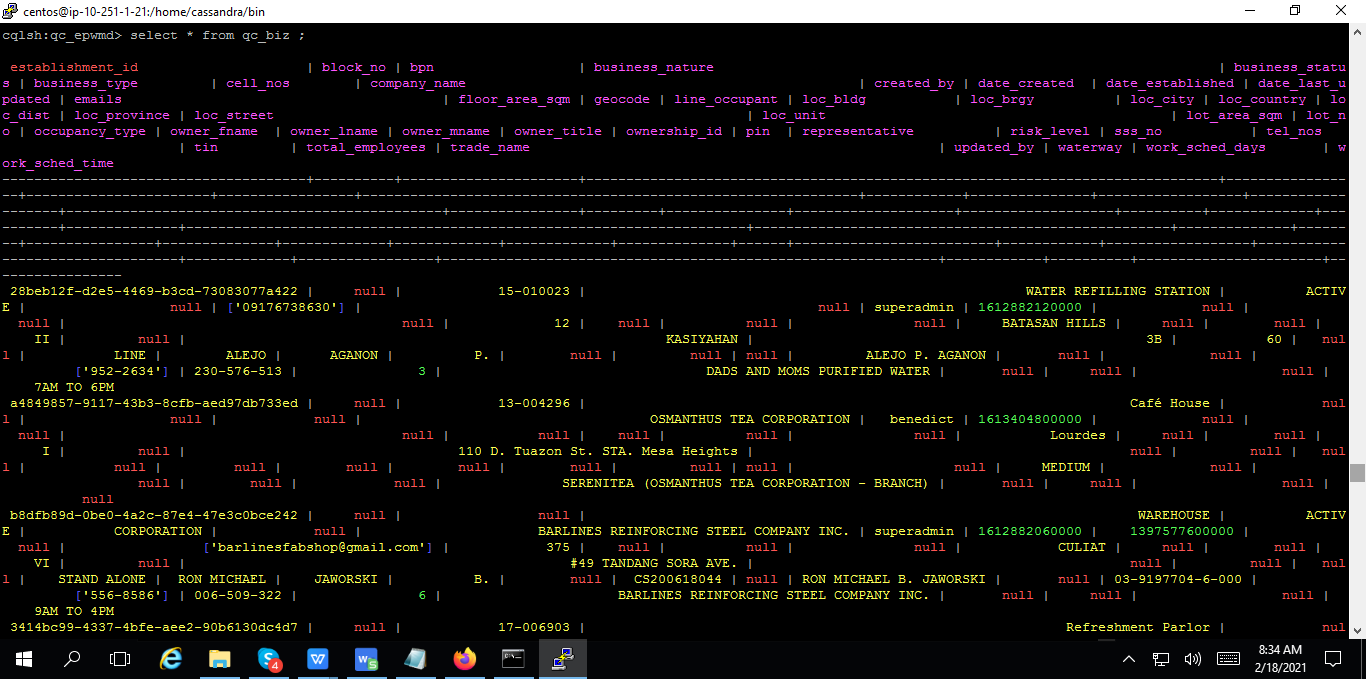
Type: java -jar migrator.jar

**Sample Output**

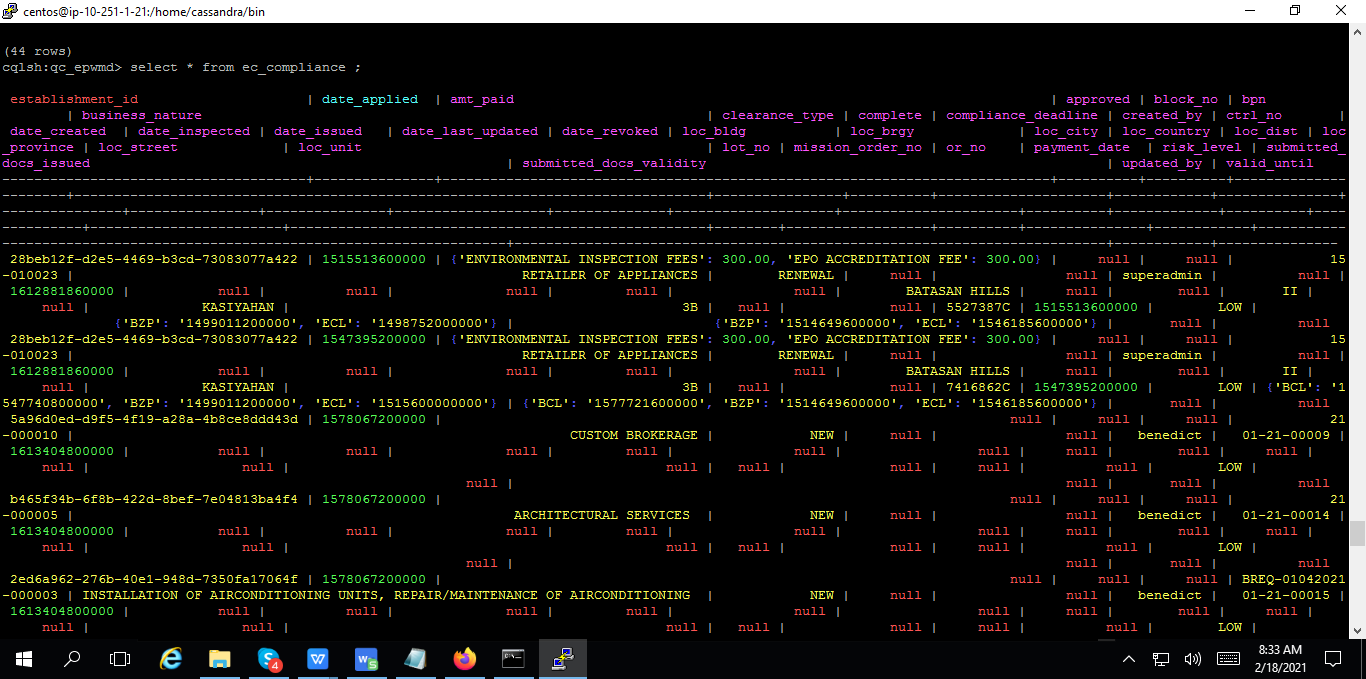
Solr admin:



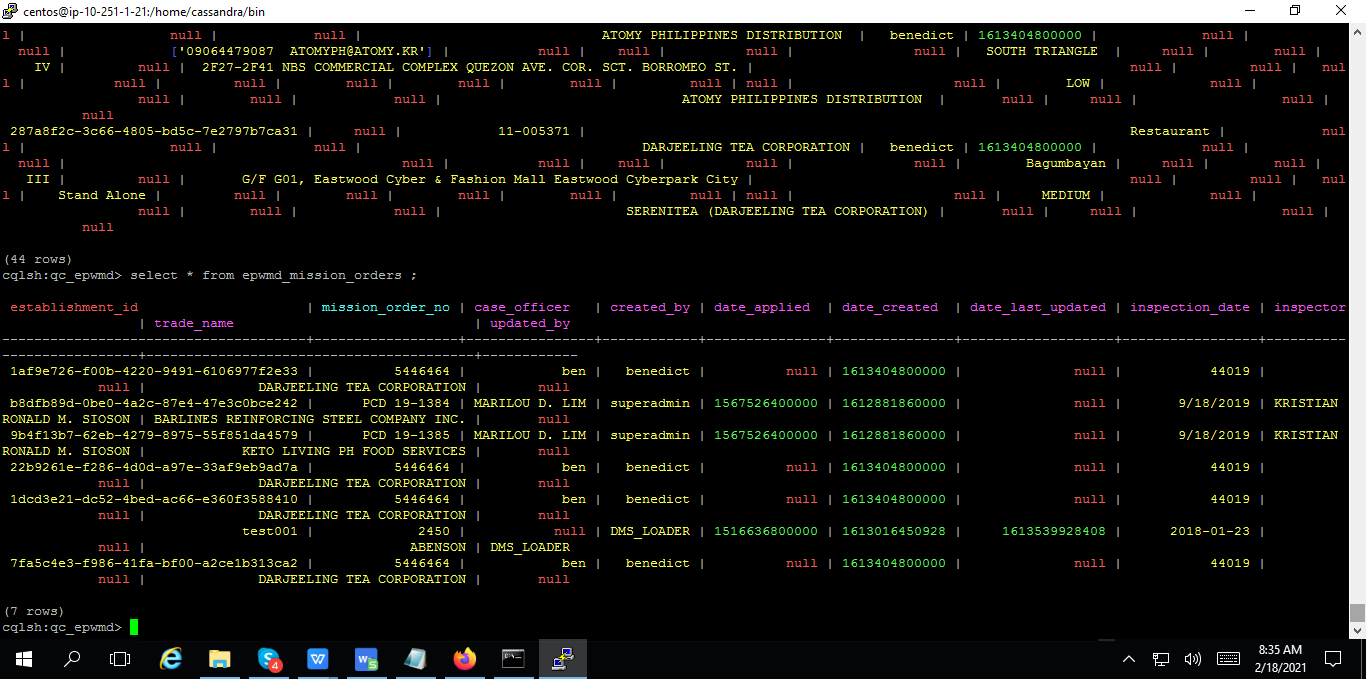
Cassandra table qc\_biz:



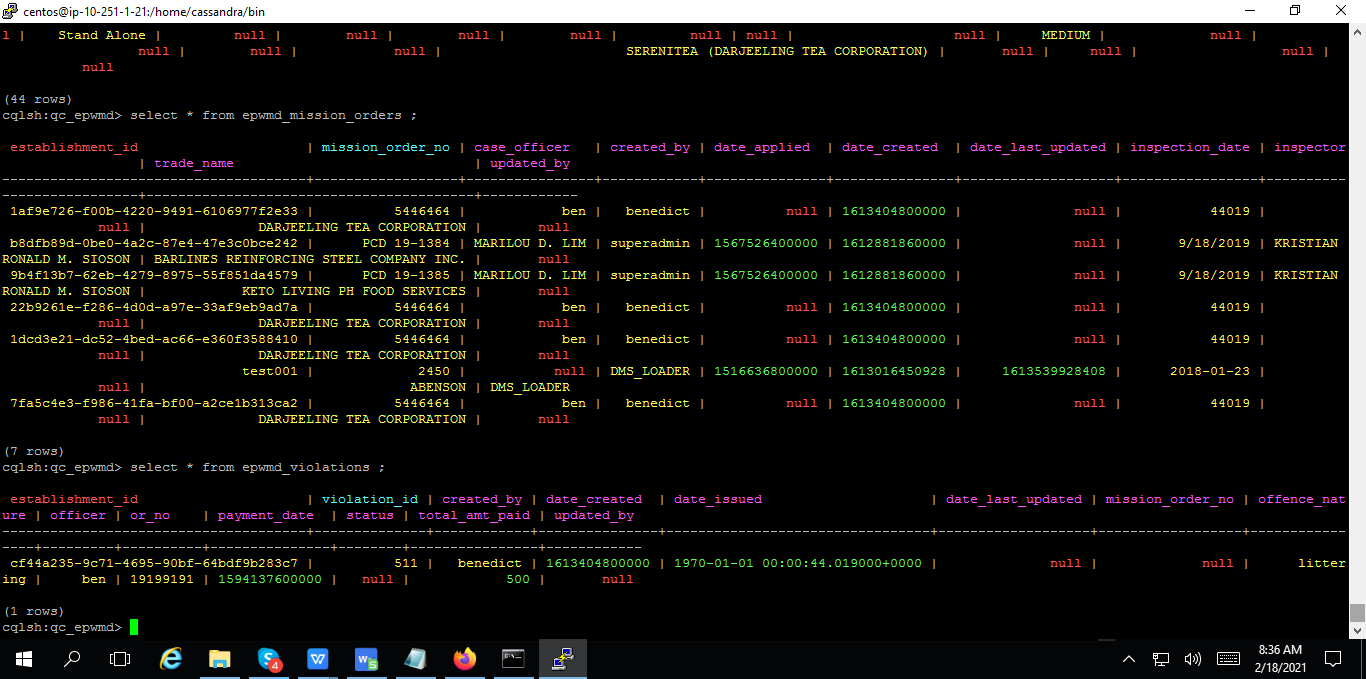
Cassandra table ec\_compliance:



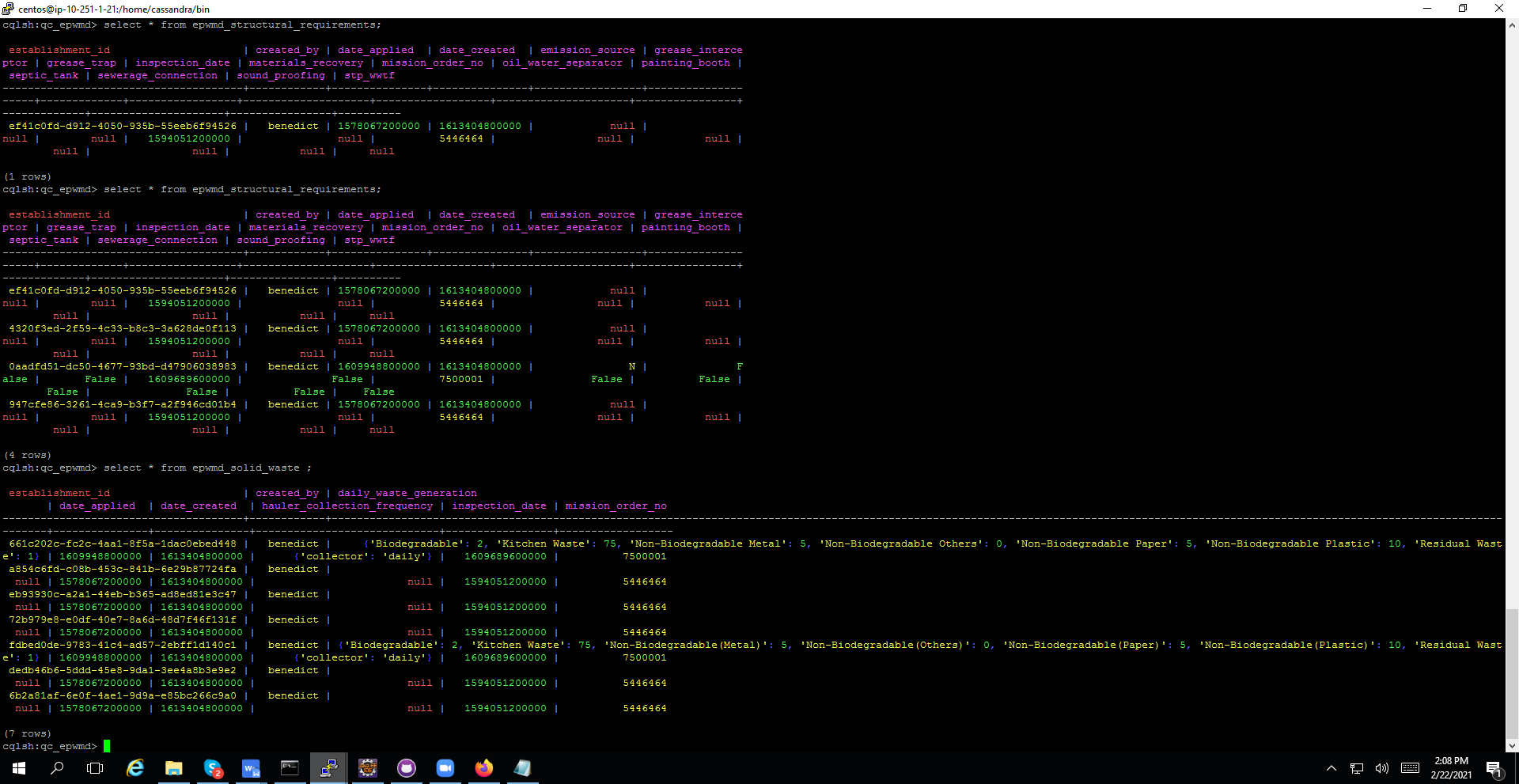
Cassandra table epwmd\_mission\_orders:



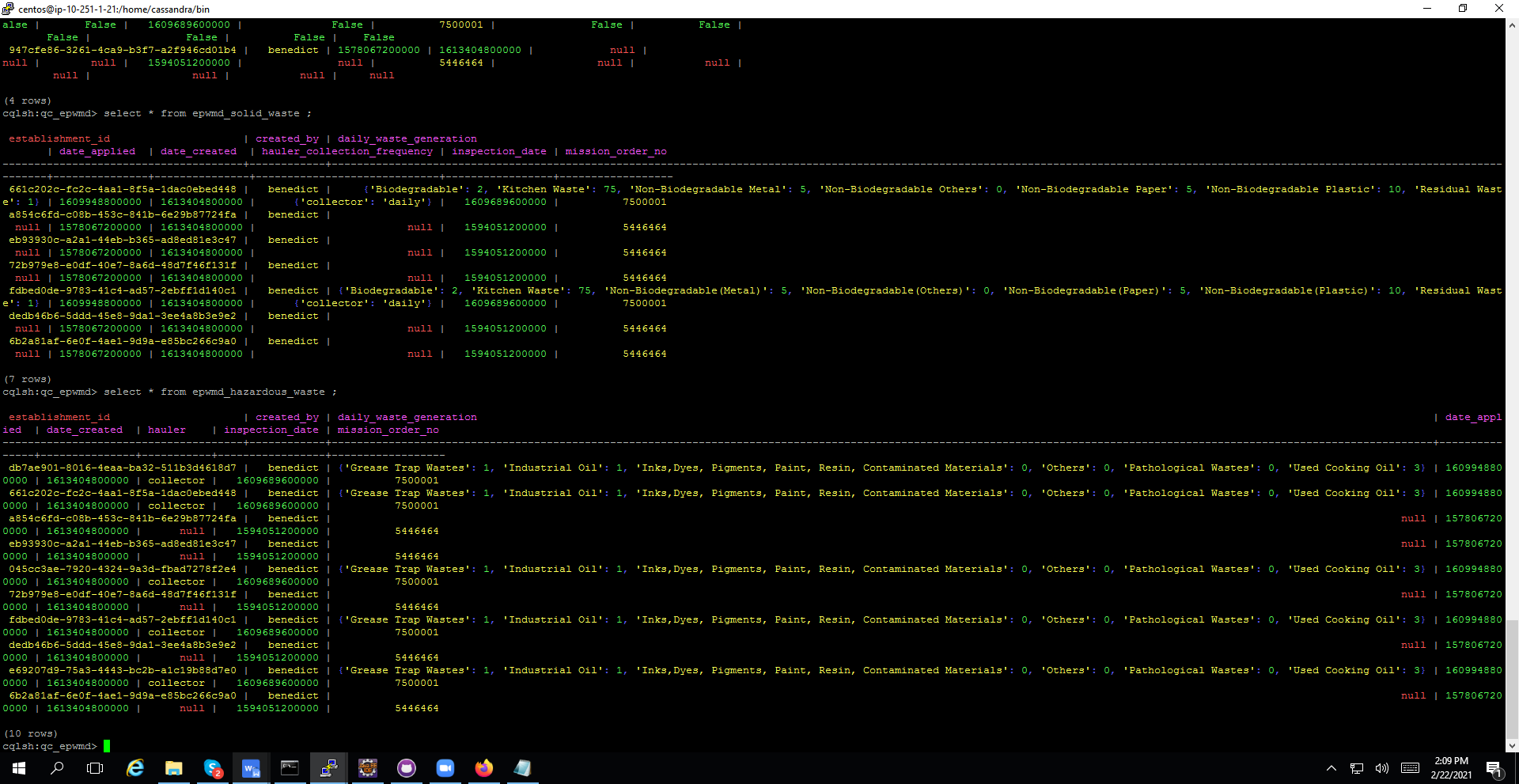
Cassandra table epwmd\_violations:



Cassandra table epwmd\_solid\_waste



Cassandra table epwmd\_hazardous\_waste



Cassandra table epwmd\_structural\_requirements

