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**INFORMATICS INSTITUTE OF TECHNOLOGY**

**In Collaboration With**

**ROBERT GORDON UNIVERSITY ABERDEEN**

Big Data Programming Report

MSc. in Big Data Analytics

2019/2020

By

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|  |  |
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| IIT No : **2019528** | RGU Id : **1913768** |

CMM705

Big Data Programming

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# Section 1

A screenshot of a cell phone

Description automatically generated

Data Source: - Airbnb Website

Data Collection Layer: - ETL

Storage Layer: - HDFS, Cloud (S3), NoSQL

Processing Layer: - Batch Processing

Querying Layer: - Hive, Pig, SparkSQL, MapReduce

Analytics Layer: - Machine Learning, Predictive Modelling, Statistical Analytics

Visualization Layer: - JavaScript Webpage

# Section 2.1

## 2.1.1



# 

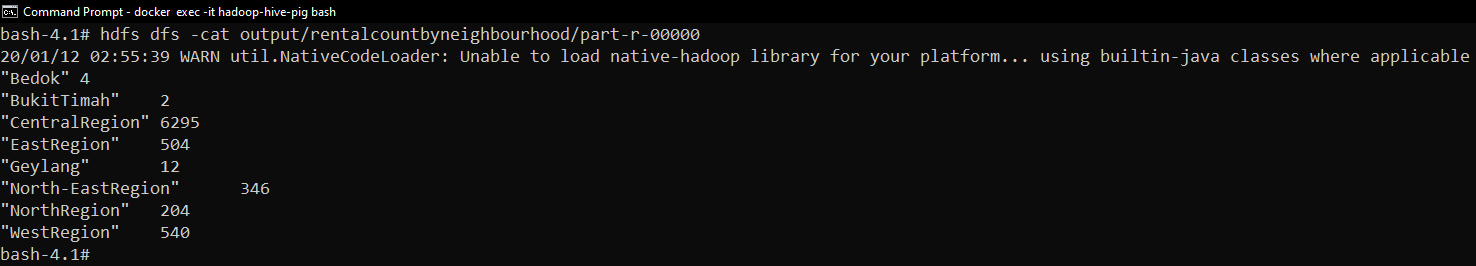
# 

## 2.1.2

## 

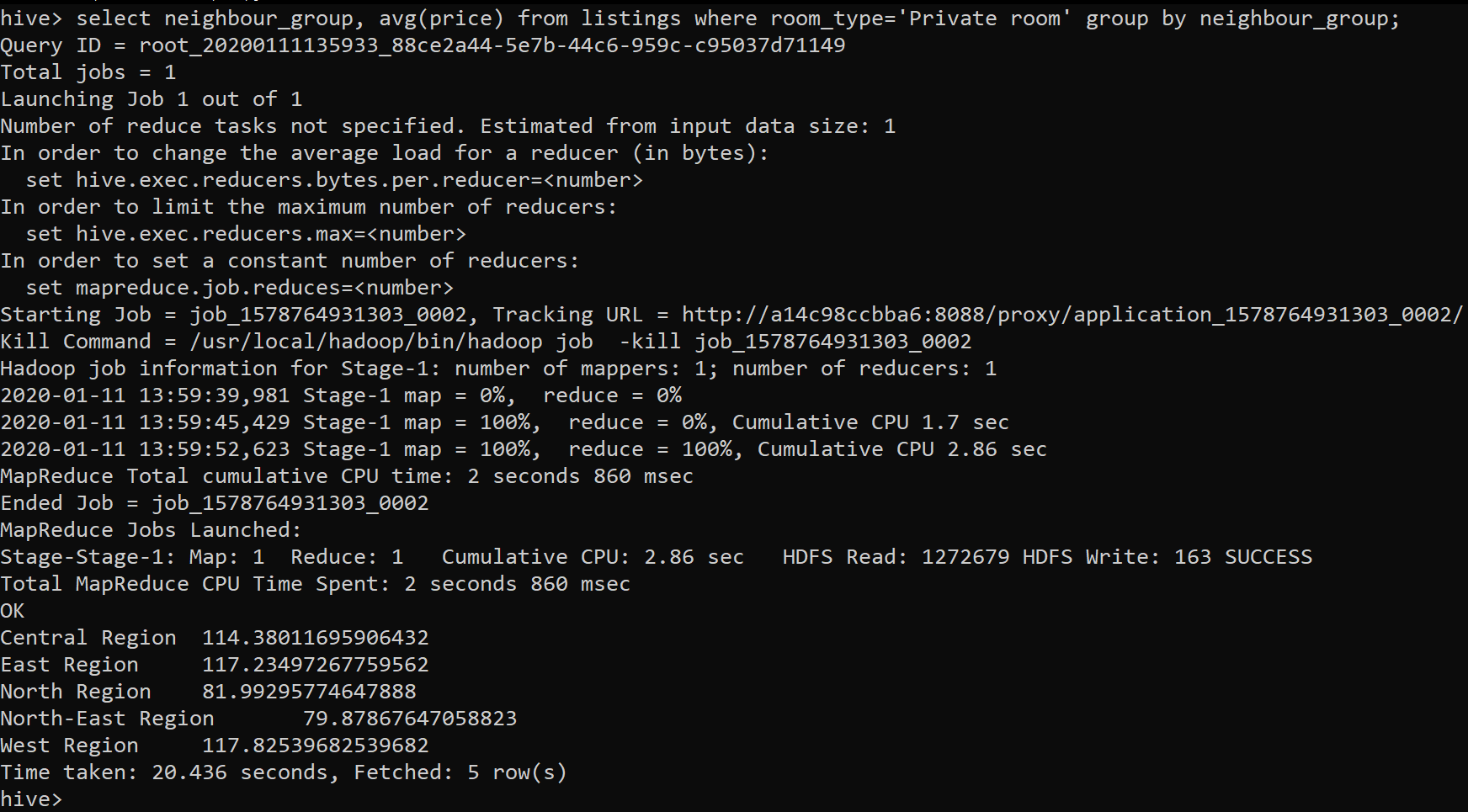
# 





# Section 2.2

## 2.2.1



## 2.2.2

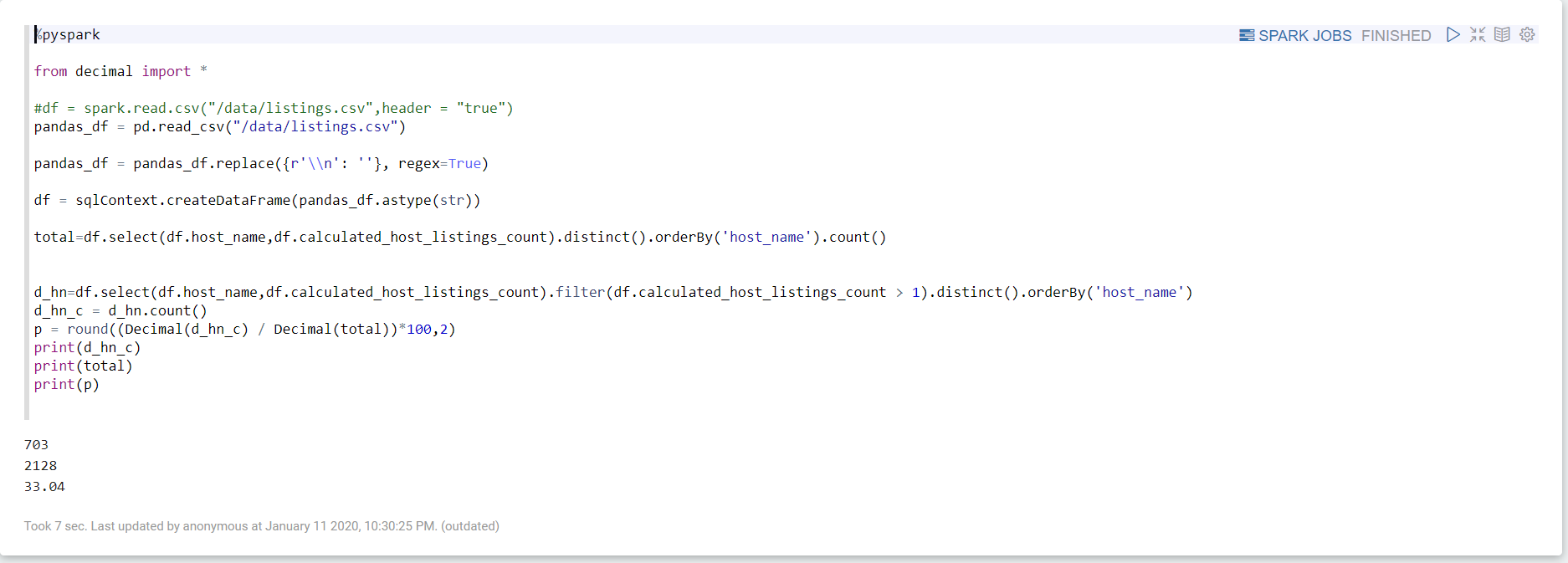
## 

## 2.2.3

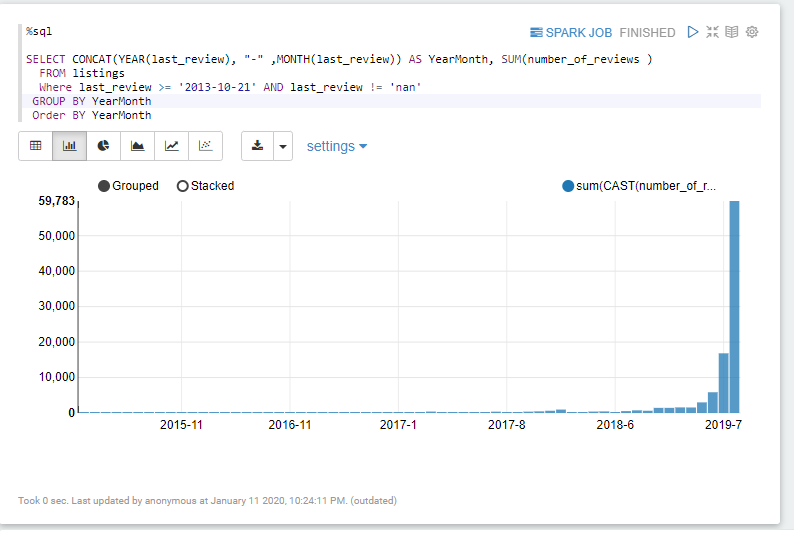
## 

# Section 2.3

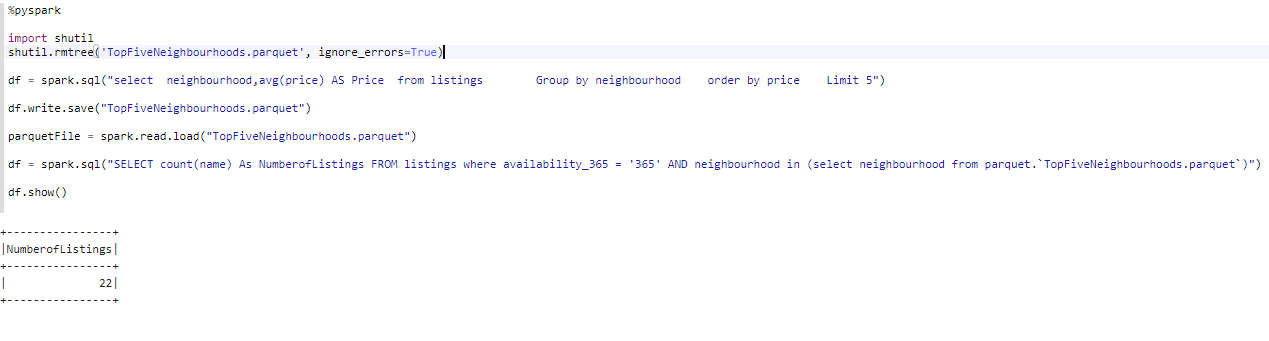
## 2.3.1



## 2.3.2



## 2.3.3



# Section 3

# 



# Section 4

# 4.1 & 4.2

# A screenshot of a cell phone Description automatically generated

## 4.3

A screenshot of a cell phone

Description automatically generated

## 4.4

A screenshot of a cell phone

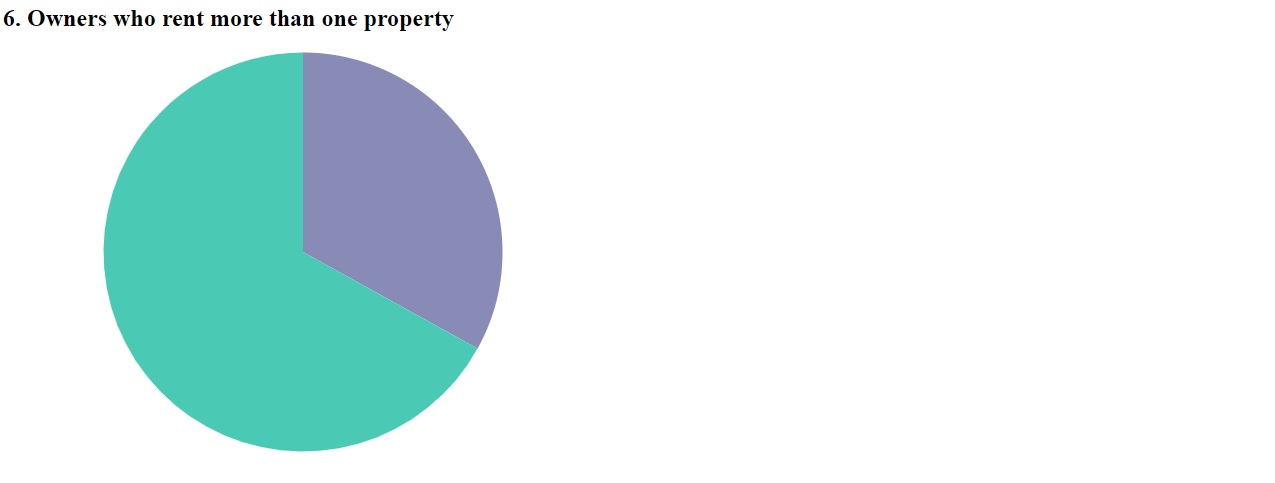
Description automatically generated

## 4.5

A screenshot of a social media post

Description automatically generated

## 4.6



## 4.7

A screenshot of a social media post

Description automatically generated

# Appendix

## Source Code Repository

<https://github.com/gotukola/hive-spark-mapreduce-javascript>