**Student Number: 10241485**

**Name: Jeslyn Ho Ka Yan   
Date: 9 Nov 2024**

**Assignment 3, Task 1**

**// This command Starts Hbase**

bigdata@bigdata-VirtualBox:~$ $HBASE\_HOME/bin/hbase shell

SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in [jar:file:/usr/share/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: Found binding in [jar:file:/usr/share/hadoop-2.7.3/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: See http://www.slf4j.org/codes.html#multiple\_bindings for an explanation.

SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]

HBase Shell; enter 'help<RETURN>' for list of supported commands.

Type "exit<RETURN>" to leave the HBase Shell

Version 1.2.6, rUnknown, Mon May 29 02:25:32 CDT 2017

**// This command runs the HBase shell script solution1.hb, located at /home/bigdata/ISIT312/A2/, which executes all the HBase commands specified in the script.**

hbase(main):001:0> source ('/home/bigdata/ISIT312/A3/solution1.hb')

solution1.hb(main):002:0> # Name: Jeslyn ho

solution1.hb(main):003:0\* # SIM ID:10241485

solution1.hb(main):004:0\* # Assingment 3 Task 1

solution1.hb(main):005:0\* #

solution1.hb(main):006:0\*

solution1.hb(main):007:0\* # Disable the table 'JOBAPP', and drop it

solution1.hb(main):008:0\* disable 'JOBAPP'

0 row(s) in 2.6240 seconds

solution1.hb(main):009:0> drop 'JOBAPP'

0 row(s) in 1.3350 seconds

solution1.hb(main):010:0>

solution1.hb(main):011:0\* #Create a table 'JOBAPP'

solution1.hb(main):012:0\* create 'JOBAPP', 'Applicant', 'Application', 'Employer', 'Position'

0 row(s) in 1.3220 seconds

=> Hbase::Table - JOBAPP

solution1.hb(main):013:0>

solution1.hb(main):014:0\*

solution1.hb(main):015:0\* # Insert Applicant 1 data

solution1.hb(main):016:0\* put 'JOBAPP', 'applicant1', 'Applicant:applicant-number', 'A001'

0 row(s) in 0.1240 seconds

solution1.hb(main):017:0> put 'JOBAPP', 'applicant1', 'Applicant:full-name', 'John Doe'

0 row(s) in 0.0180 seconds

solution1.hb(main):018:0> put 'JOBAPP', 'applicant1', 'Applicant:date-of-birth', '1990-01-01'

0 row(s) in 0.0290 seconds

solution1.hb(main):019:0>

solution1.hb(main):020:0\* # Insert Applicant 2 data

solution1.hb(main):021:0\* put 'JOBAPP', 'applicant2', 'Applicant:applicant-number', 'A002'

0 row(s) in 0.0160 seconds

solution1.hb(main):022:0> put 'JOBAPP', 'applicant2', 'Applicant:full-name', 'Jane Smith'

0 row(s) in 0.0090 seconds

solution1.hb(main):023:0> put 'JOBAPP', 'applicant2', 'Applicant:date-of-birth', '1992-02-02'

0 row(s) in 0.0220 seconds

solution1.hb(main):024:0>

solution1.hb(main):025:0\* # Insert Employer 1 data

solution1.hb(main):026:0\* put 'JOBAPP', 'employer1', 'Employer:ename', 'TechCorp'

0 row(s) in 0.0070 seconds

solution1.hb(main):027:0> put 'JOBAPP', 'employer1', 'Employer:phone', '1234567890'

0 row(s) in 0.0260 seconds

solution1.hb(main):028:0>

solution1.hb(main):029:0\* # Insert Employer 2 data

solution1.hb(main):030:0\* put 'JOBAPP', 'employer2', 'Employer:ename', 'Innovate Ltd'

0 row(s) in 0.0300 seconds

solution1.hb(main):031:0> put 'JOBAPP', 'employer2', 'Employer:phone', '0987654321'

0 row(s) in 0.0190 seconds

solution1.hb(main):032:0>

solution1.hb(main):033:0\* # Insert Position 1 data

solution1.hb(main):034:0\* put 'JOBAPP', 'position1', 'Position:position-number', 'P001'

0 row(s) in 0.0160 seconds

solution1.hb(main):035:0> put 'JOBAPP', 'position1', 'Position:title', 'Software Engineer'

0 row(s) in 0.0120 seconds

solution1.hb(main):036:0> put 'JOBAPP', 'position1', 'Position:salary', '70000'

0 row(s) in 0.0180 seconds

solution1.hb(main):037:0>

solution1.hb(main):038:0\* # Insert Position 2 data

solution1.hb(main):039:0\* put 'JOBAPP', 'position2', 'Position:position-number', 'P002'

0 row(s) in 0.0300 seconds

solution1.hb(main):040:0> put 'JOBAPP', 'position2', 'Position:title', 'Data Scientist'

0 row(s) in 0.0270 seconds

solution1.hb(main):041:0> put 'JOBAPP', 'position2', 'Position:salary', '80000'

0 row(s) in 0.0160 seconds

solution1.hb(main):042:0>

solution1.hb(main):043:0\*

solution1.hb(main):044:0\* # Insert Application data

solution1.hb(main):045:0\* put 'JOBAPP', 'application1', 'Application:application-number', 'APP001'

0 row(s) in 0.0250 seconds

solution1.hb(main):046:0> put 'JOBAPP', 'application1', 'Application:total-skills', '5'

0 row(s) in 0.0160 seconds

solution1.hb(main):047:0> put 'JOBAPP', 'application1', 'Application:education-level', 'Bachelor'

0 row(s) in 0.0370 seconds

solution1.hb(main):048:0> put 'JOBAPP', 'application1', 'Applicant:applicant-number', 'A001'

0 row(s) in 0.0660 seconds

solution1.hb(main):049:0> put 'JOBAPP', 'application1', 'Employer:ename', 'TechCorp'

0 row(s) in 0.0100 seconds

solution1.hb(main):050:0> put 'JOBAPP', 'application1', 'Position:position-number', 'P001'

0 row(s) in 0.0100 seconds

solution1.hb(main):051:0>

solution1.hb(main):052:0\* put 'JOBAPP', 'application2', 'Application:application-number', 'APP002'

0 row(s) in 0.0170 seconds

solution1.hb(main):053:0> put 'JOBAPP', 'application2', 'Application:total-skills', '3'

0 row(s) in 0.0500 seconds

solution1.hb(main):054:0> put 'JOBAPP', 'application2', 'Application:education-level', 'Bachelor'

0 row(s) in 0.0070 seconds

solution1.hb(main):055:0> put 'JOBAPP', 'application2', 'Applicant:applicant-number', 'A002'

0 row(s) in 0.0230 seconds

solution1.hb(main):056:0> put 'JOBAPP', 'application2', 'Employer:ename', 'TechCorp'

0 row(s) in 0.0110 seconds

solution1.hb(main):057:0> put 'JOBAPP', 'application2', 'Position:position-number', 'P002'

0 row(s) in 0.0080 seconds

solution1.hb(main):058:0>

solution1.hb(main):059:0\* put 'JOBAPP', 'application3', 'Application:application-number', 'APP003'

0 row(s) in 0.0110 seconds

solution1.hb(main):060:0> put 'JOBAPP', 'application3', 'Application:total-skills', '4'

0 row(s) in 0.0320 seconds

solution1.hb(main):061:0> put 'JOBAPP', 'application3', 'Application:education-level', 'Master'

0 row(s) in 0.0200 seconds

solution1.hb(main):062:0> put 'JOBAPP', 'application3', 'Applicant:applicant-number', 'A002'

0 row(s) in 0.0120 seconds

solution1.hb(main):063:0> put 'JOBAPP', 'application3', 'Employer:ename', 'Innovate Ltd'

0 row(s) in 0.0090 seconds

solution1.hb(main):064:0> put 'JOBAPP', 'application3', 'Position:position-number', 'P001'

0 row(s) in 0.0050 seconds

solution1.hb(main):065:0>

solution1.hb(main):066:0\* #Scan the table 'COURSEWORK' for verfication

solution1.hb(main):067:0\* scan 'JOBAPP'

ROW COLUMN+CELL

applicant1 column=Applicant:applicant-number, timestamp=1731141410841, value=A001

applicant1 column=Applicant:date-of-birth, timestamp=1731141410909, value=1990-01-

01

applicant1 column=Applicant:full-name, timestamp=1731141410865, value=John Doe

applicant2 column=Applicant:applicant-number, timestamp=1731141410930, value=A002

applicant2 column=Applicant:date-of-birth, timestamp=1731141410979, value=1992-02-

02

applicant2 column=Applicant:full-name, timestamp=1731141410951, value=Jane Smith

application1 column=Applicant:applicant-number, timestamp=1731141411545, value=A001

application1 column=Application:application-number, timestamp=1731141411397, value=A

PP001

application1 column=Application:education-level, timestamp=1731141411458, value=Bach

elor

application1 column=Application:total-skills, timestamp=1731141411427, value=5

application1 column=Employer:ename, timestamp=1731141411560, value=TechCorp

application1 column=Position:position-number, timestamp=1731141411578, value=P001

application2 column=Applicant:applicant-number, timestamp=1731141411699, value=A002

application2 column=Application:application-number, timestamp=1731141411601, value=A

PP002

application2 column=Application:education-level, timestamp=1731141411671, value=Bach

elor

application2 column=Application:total-skills, timestamp=1731141411657, value=3

application2 column=Employer:ename, timestamp=1731141411720, value=TechCorp

application2 column=Position:position-number, timestamp=1731141411756, value=P002

application3 column=Applicant:applicant-number, timestamp=1731141411849, value=A002

application3 column=Application:application-number, timestamp=1731141411778, value=A

PP003

application3 column=Application:education-level, timestamp=1731141411831, value=Mast

er

application3 column=Application:total-skills, timestamp=1731141411814, value=4

application3 column=Employer:ename, timestamp=1731141411864, value=Innovate Ltd

application3 column=Position:position-number, timestamp=1731141411872, value=P001

employer1 column=Employer:ename, timestamp=1731141410995, value=TechCorp

employer1 column=Employer:phone, timestamp=1731141411088, value=1234567890

employer2 column=Employer:ename, timestamp=1731141411127, value=Innovate Ltd

employer2 column=Employer:phone, timestamp=1731141411157, value=0987654321

position1 column=Position:position-number, timestamp=1731141411239, value=P001

position1 column=Position:salary, timestamp=1731141411280, value=70000

position1 column=Position:title, timestamp=1731141411257, value=Software Engineer

position2 column=Position:position-number, timestamp=1731141411313, value=P002

position2 column=Position:salary, timestamp=1731141411370, value=80000

position2 column=Position:title, timestamp=1731141411344, value=Data Scientist

9 row(s) in 0.2060 seconds