

**Student Number: 10241485**

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**Date: 9 Nov 2024**

**Assignment 3, Task 1**

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// 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 verification  
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
```