Assignment 1 – Software Installations

Due: 1/30

1. Install Weka (**10 points)**

    Complete WEKA installation using the installation instruction in Appendix A of this assignment (The link to the installation instruction file is also included in Section 19 of Module 1). Run the WEKA Explorer, open the *iris.arff* dataset (located in WEKA installations data folder). Provide a snapshot of the resulting screen in your submission. (**10 points)**

2. Install Oracle (**10 points)**

    You will not directly install Oracle on your computer. Instead, you will install Oracle Virtual machine. Follow the instruction below:

    (a). Complete Oracle 11gR2 virtual machine installation using the installation instruction in Appendix B of this assignment (The link to the installation instruction file is also included in Section 21 of Module 1).
    (b). Start the oracle virtual machine.
    (c). Login with username *oracle* (this is a linux user) and password *oracle*.
    (d). Once the linux boots up, you will see SQL Developer shortcut icon on the desktop. Start SQL Developer by double clicking it.
    (e). Capture the SQL Developer Start Page screen and include it in your submission.

3. Install JMP Pro (**10 points)**

    Complete JMP installation using the installation instruction in Appendix C of this assignment. Follow the instruction and capture the last screen in the appendix and paste it to your submission document.

Submission:

Submit the solutions in a single Word or PDF document and upload it to course assignments section. Please make sure that there are no spaces in the file name. Use *lastName_firstName_*HW1.doc or *lastName_firstName_*HW1.pdf as the file name.

Appendix A: Weka Installation

Weka Installation

Note that the screenshots shown here may not be exactly the same as those you will see on your computer screen.

1. Go to http://www.cs.waikato.ac.nz/ml/weka/
2. Read general description (you may want to browse various links on this page to learn more about Weka).
3. Click Download link on the left pane.
4. There are a couple of different versions. You may want to download the latest stable version (weka 3.8). Choose and download the executable that is appropriate for your computer. If you have java on your computer (most of you have java), then choose the one without java VM.
5. Run the downloaded executable file.
6. Installation is straightforward. Step by step instruction is given below FYR.

7. This is the first window you see when you run the executable. Click *Next*.

8. Click *I Agree* on the License Agreement window.

9. In the Choose Components window, make sure *Full* is selected and *Associate Files* is checked, and click *Next*.
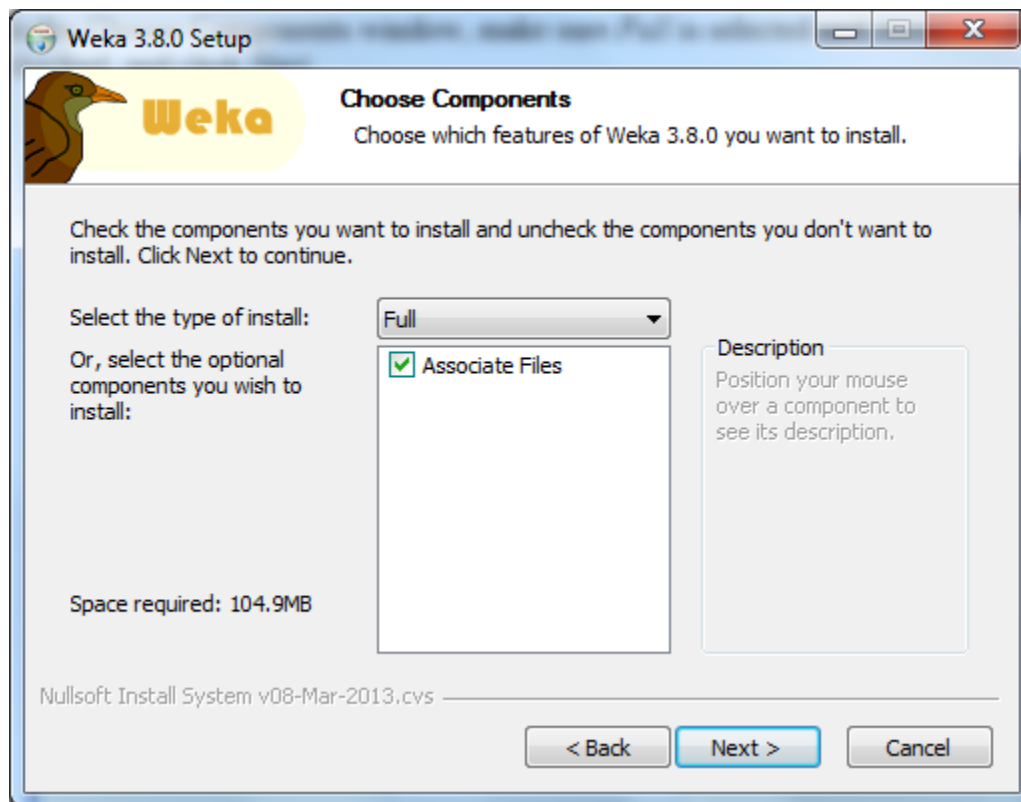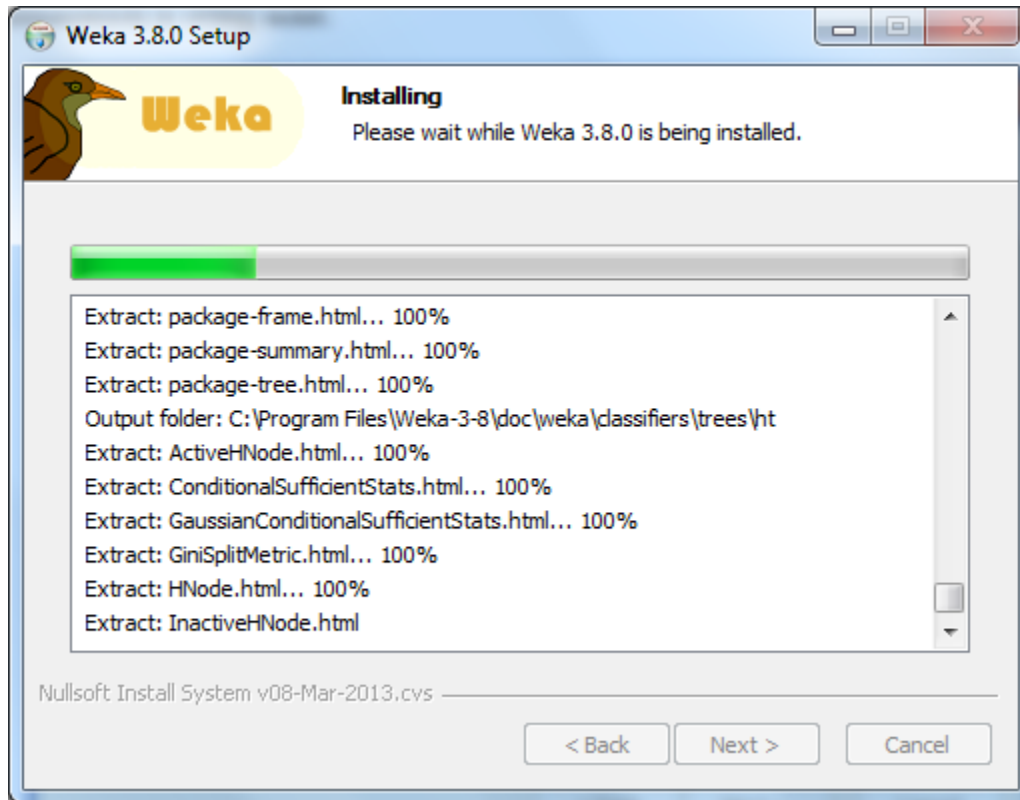
10. You can change the installation location if you want. Otherwise, accept the default location and click *Next*.
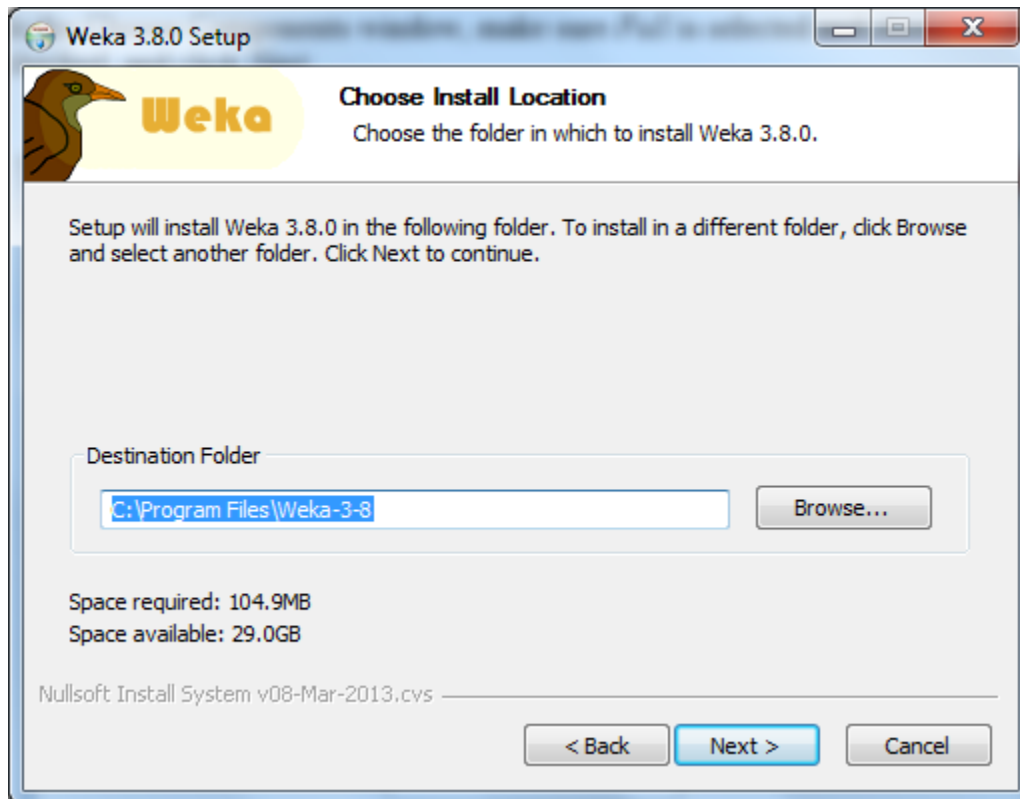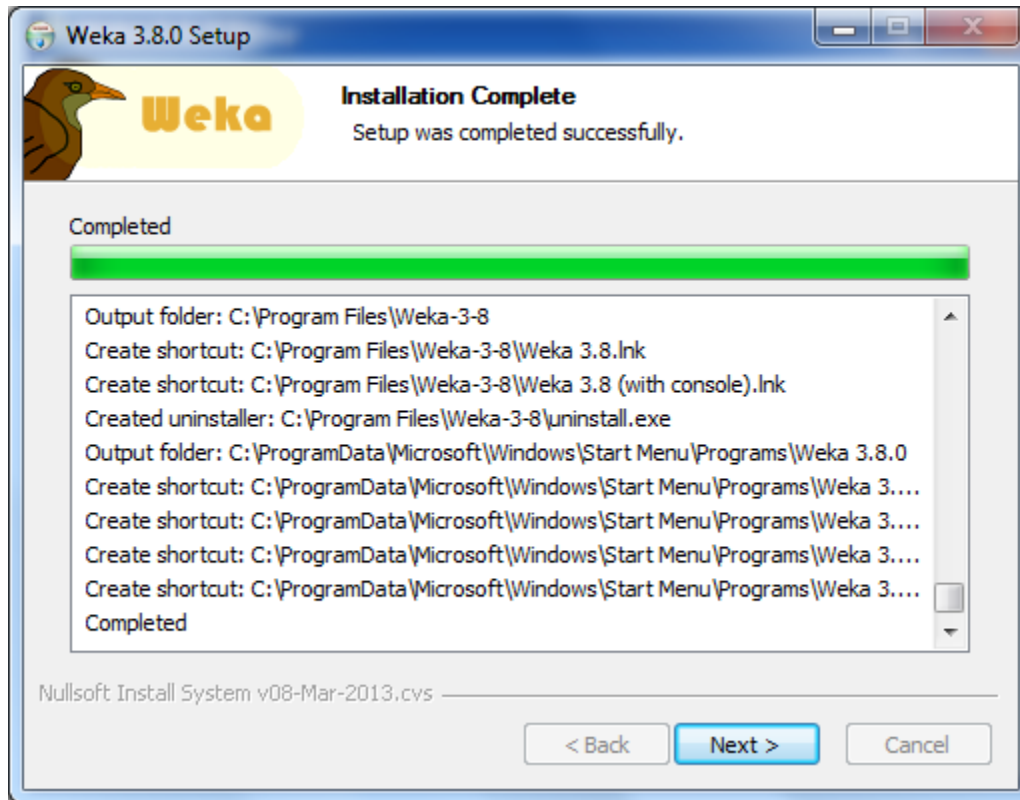
11. Click *Install*.
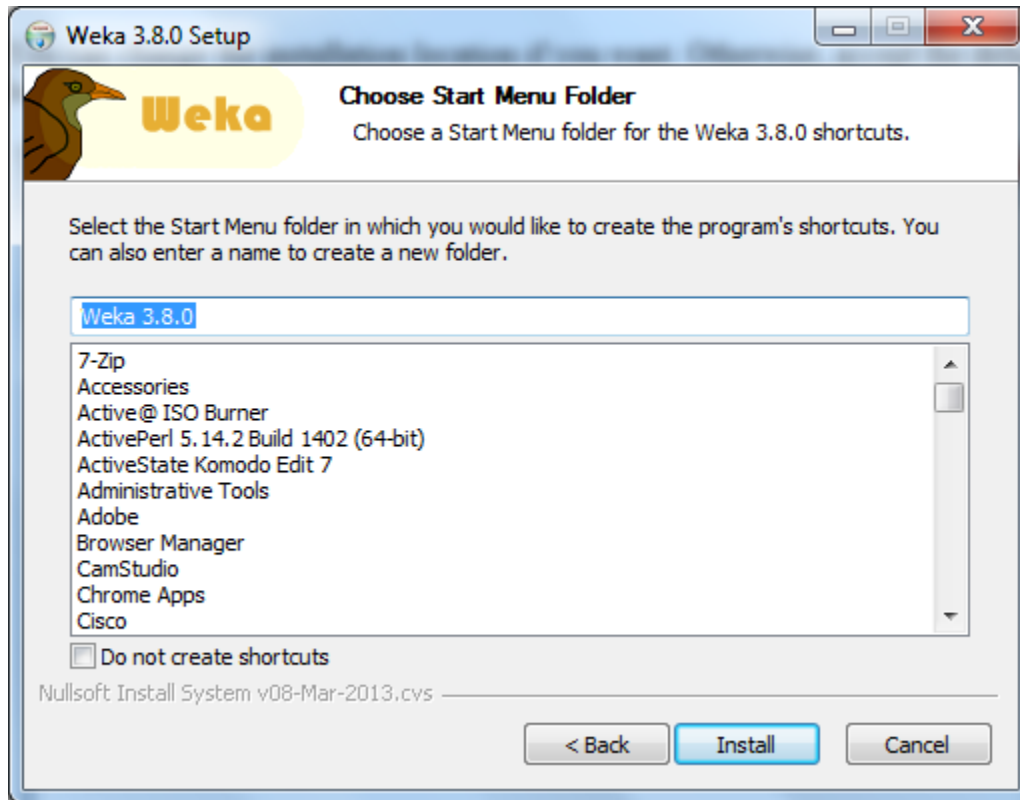
12. Installation is being done.

13. Installation is completed. Click *Next*.

14. Click *Finish*.

15. If you see this window, weka was successfully installed.

Appendix B: Installing Oracle 11gR2 Virtual Machine for CS699

This document describes how to download and install oracle virtual machine for CS699. It involves three tasks:

A. Download and install Oracle VM VirtualBox
B. Download prebuilt Oracle appliance (which was preconfigured for CS699)
C. Import the downloaded appliance to VirtualBox

A. Download and install Oracle VM VirtualBox

Go to: http://www.oracle.com/technetwork/server-storage/virtualbox/downloads/index.html?utm_content=bufferc0437&utm_source=buffer&utm_medium=twitter&utm_campaign=Buffer

And, download Oracle VM VirtualBox for your platform and install it.

You can get VirtualBox from this location too:
https://www.virtualbox.org/wiki/Downloads

B. Download prebuilt Oracle appliance

The prebuilt appliance can be downloaded from the following link (the file name is CS_699_Oracle_DM_11gR2_Linux.ova):

https://drive.google.com/file/d/0B3-B1IH9hGQsV1BqMmdCZHdyd1U/view?usp=sharing

The download time depends on the speed of your internet connection and it will take between 20 minutes and an hour (or more).

## C. Import Oracle Prebuilt Appliance

Note that the screenshots shown here may not be exactly the same as those you will see on your computer screen.

1. Start Oracle VM VirtualBox. You will see Oracle VM Virtual Box Manager.
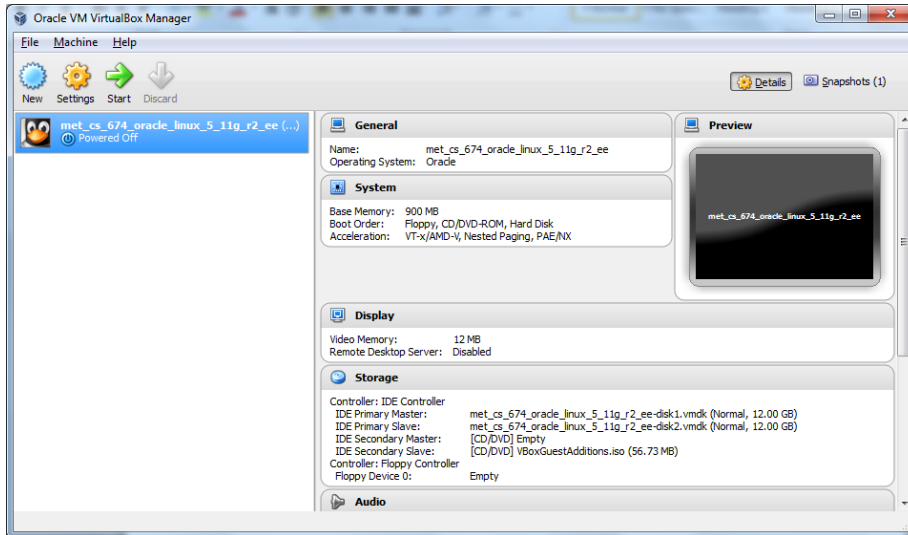
(I have other VM for a different course which is highlighted in blue in the above screen. If this is the first time you are using VirtualBox, you will not see any virtual machine)
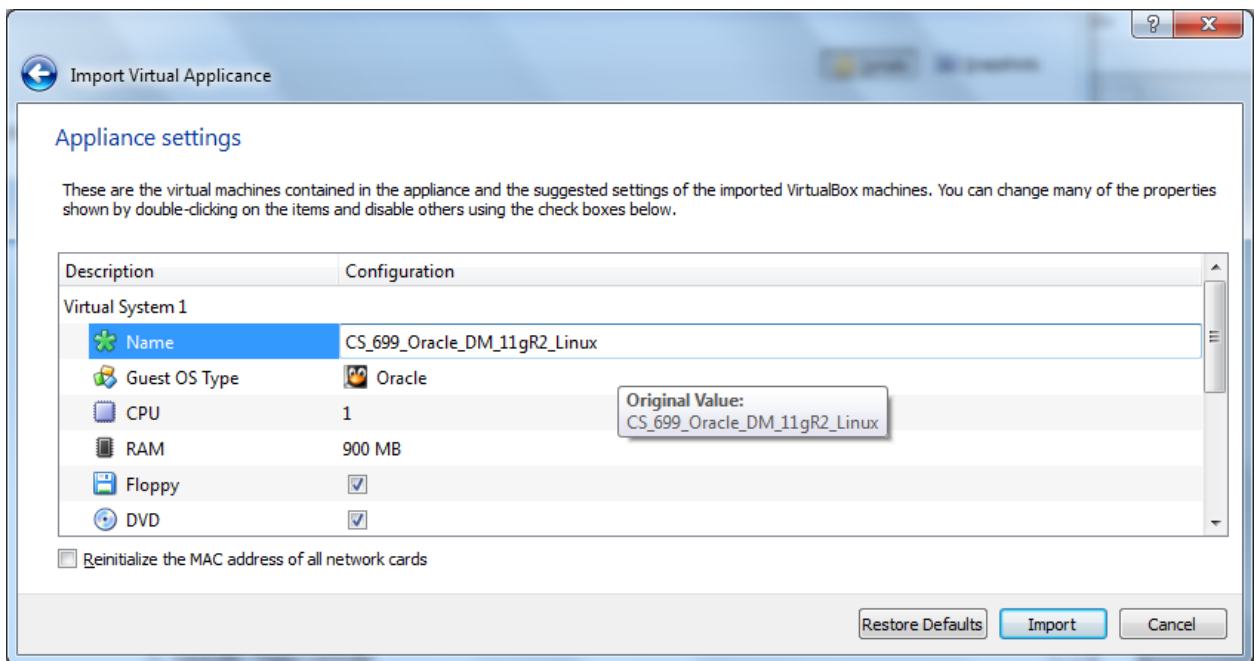
2. Click File – Import Appliance. Import Virtual Appliance window pops up. Click "Open appliance …" and browse to the location where you saved prebuilt appliance (ova file) and select it.
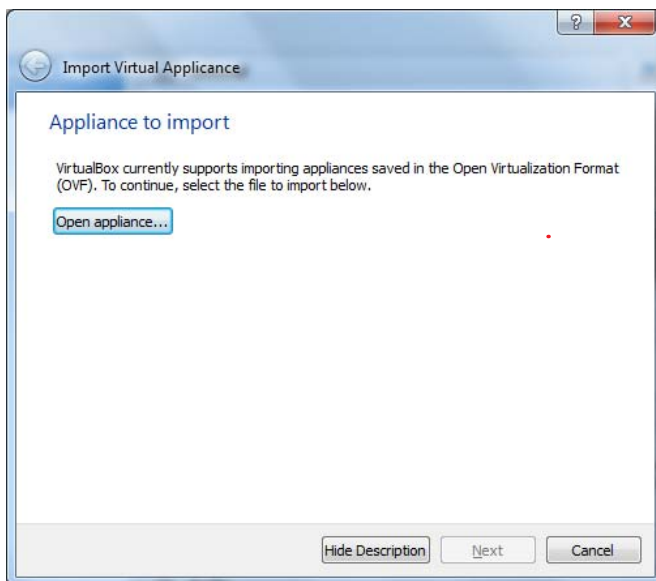
3. Click Next
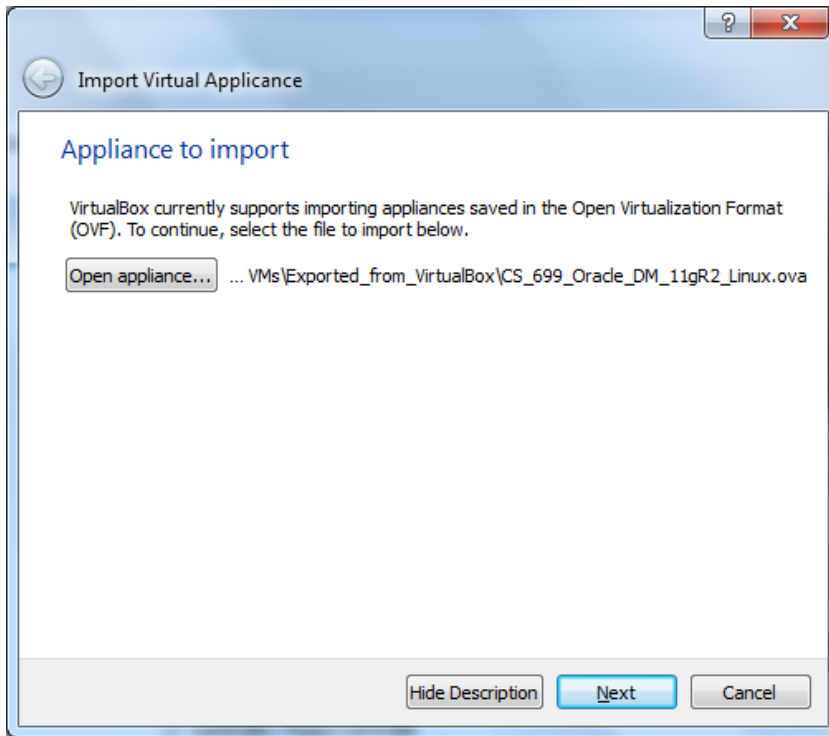
4. Change the Name to a name of your choice
   (e.g. CS_699_Oracle_DM_11gR2_Linux)

5. Scroll down and you will see virtual disk images. You can accept the default locations or you can change the directory of both Virtual Disk Images to other location (e.g., C:\VirtualBox VMs\CS_699_Oracle_DM_11gR2_Linux\). You may change the directory path, but you should not change the .vmdk file name. Then, click Import.
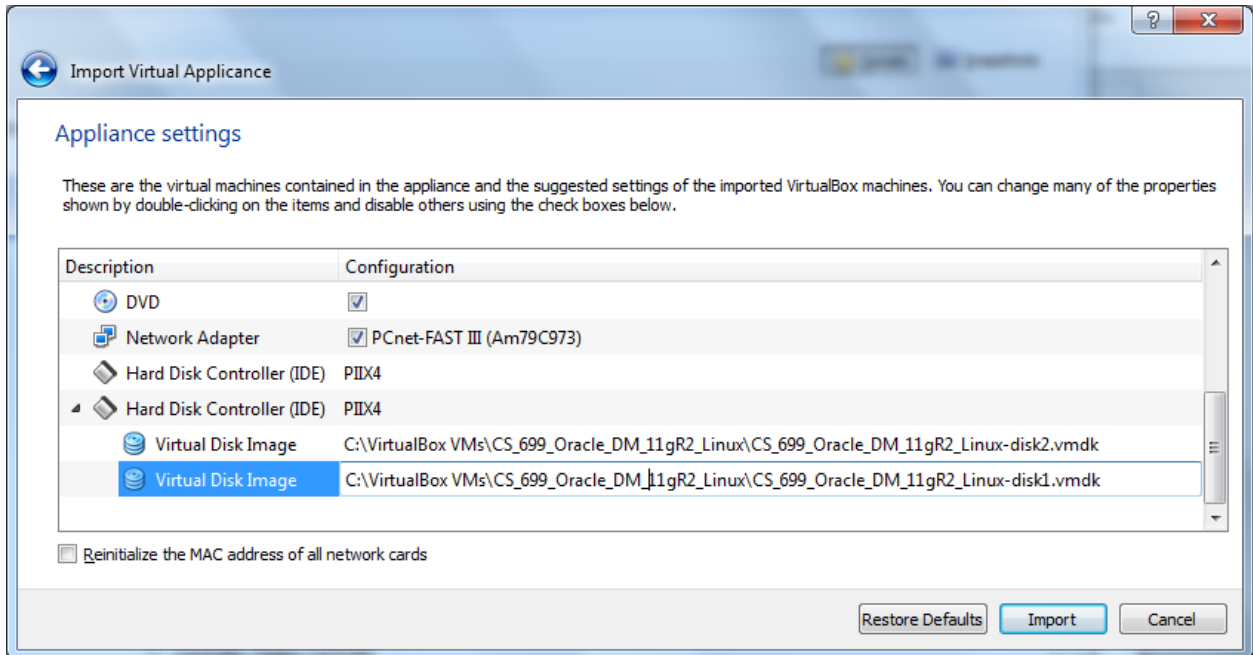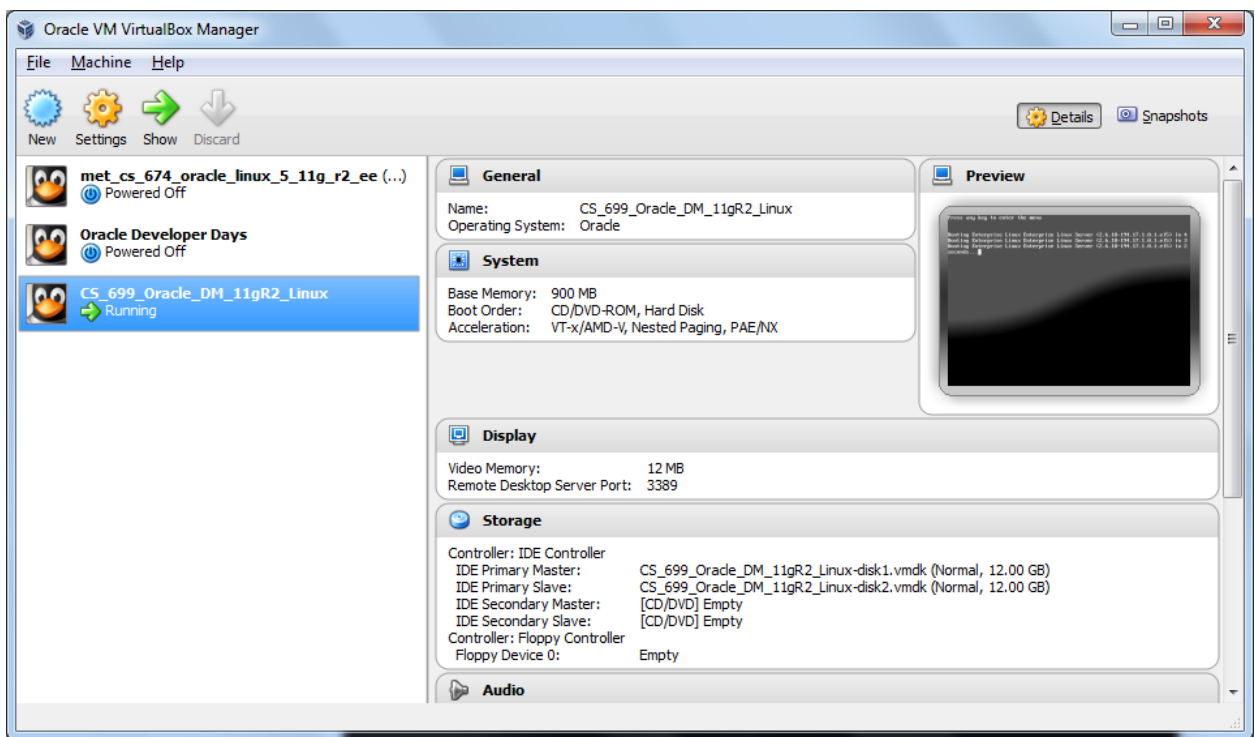

6. If you see a License Agreement screen, click Agree.
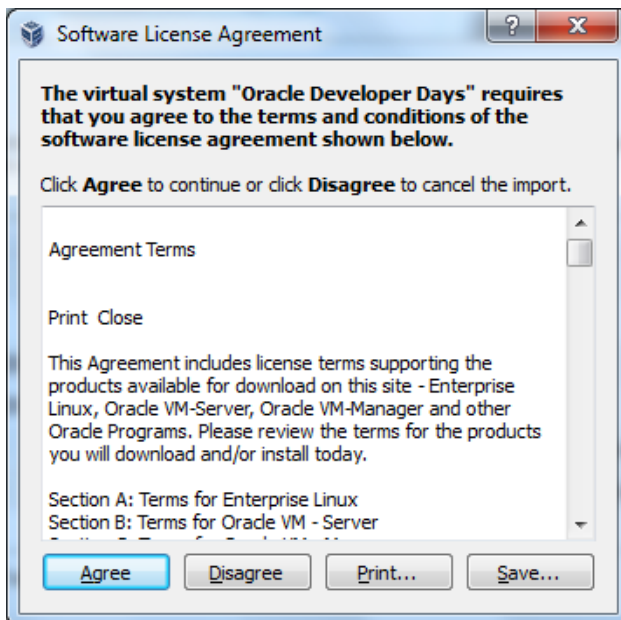
7. Importing
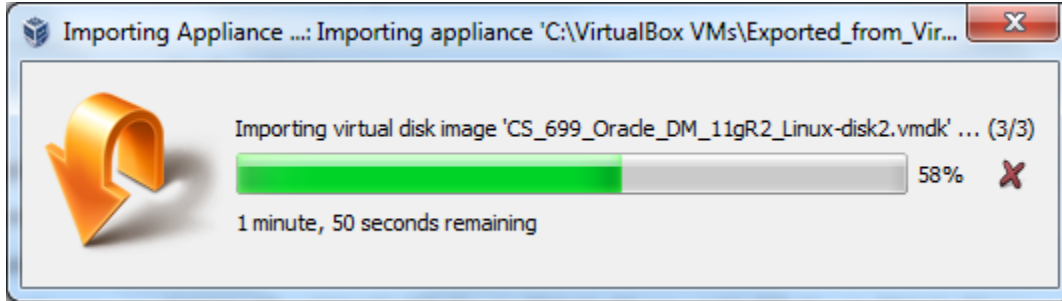
8. Once Import is completed, you will see imported VM appliance in the Oracle VM Virtual Box Manager.

/**
*/

You can start the VM by first selecting the VM and clicking Start (green arrow).
The Linux login screen will appear. Login with user name *oracle* and password *oracle*
(The passwords for OS user root, Oracle users sys and system are all oracle by default.
You can change them later if you want).

Appendix C: JMP Installation

JMP is available from the following web site of BU:

http://www.bu.edu/tech/services/cccs/desktop/distribution/statistics/

Go to the above web site and scroll down to the "Getting Started" section, shown below:

Getting Started

> Visit the JMP page for more information, documentation, and downloads (students and faculty, BU login required).

Click the "JMP" link and log in with your BU credential. You will see the following screen (only a part of the screen is shown):

JMP Pro 14 site license for Boston University Academic Community:

Boston University site license distribution for JMP covers all qualified faculty and students for teaching and academic research. Individual departments and schools may also acquire JMP for their classrooms and lab machines. If you would like to acquire JMP for administrative use, please contact the JMP site coordinator for further information.

Our current license will expire on October 31. 2019 (ends December 15, 2019).

> JMP Pro 14.1 for Microsoft Windows (Note: Windows XP is not supported)

> JMP Pro 14.1 for Apple Macintosh (Note: Mac OS X 10.9 and earlier are not supported)
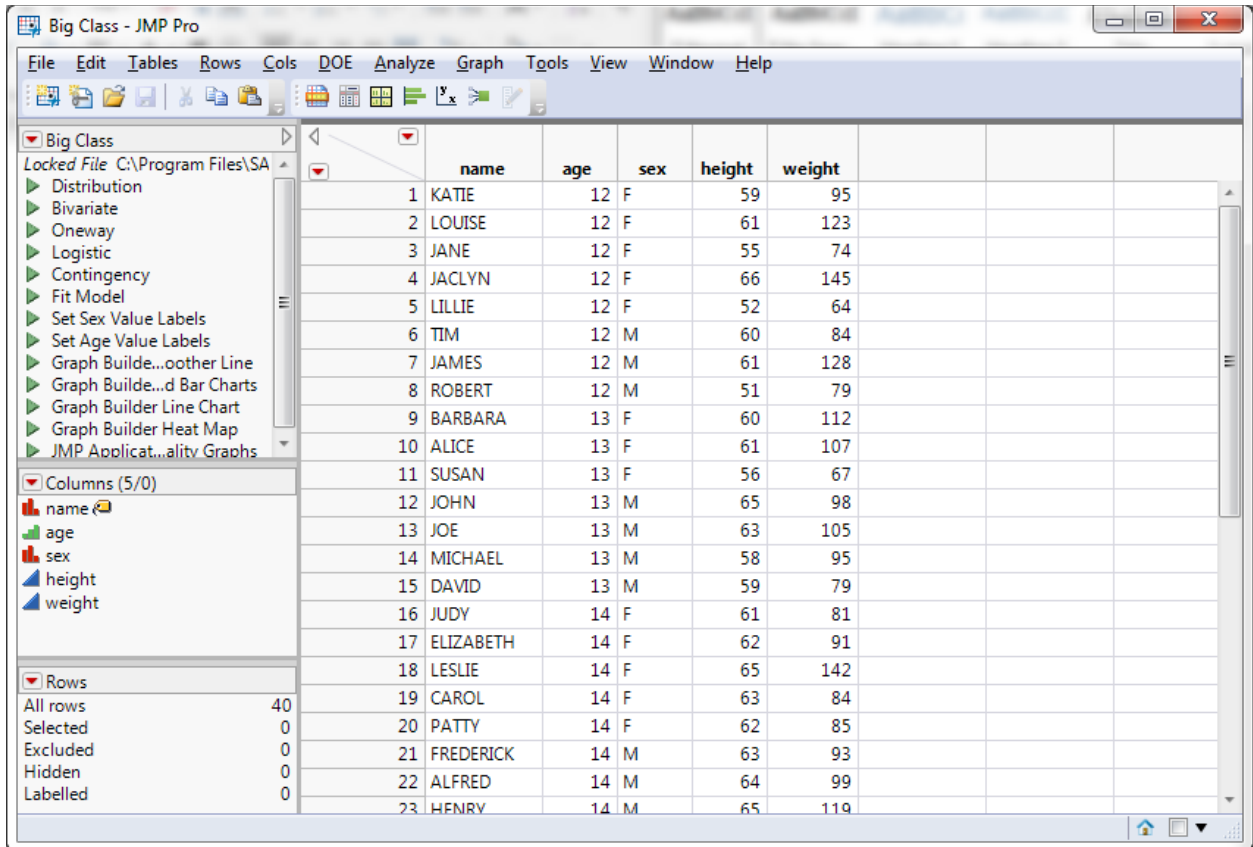
> JMP Documentation ↗

Download JMP Pro 14.1 for your OS and install it (installation is straight forward and the screenshots are not shown here). Once installation is complete, you will see the following screen:
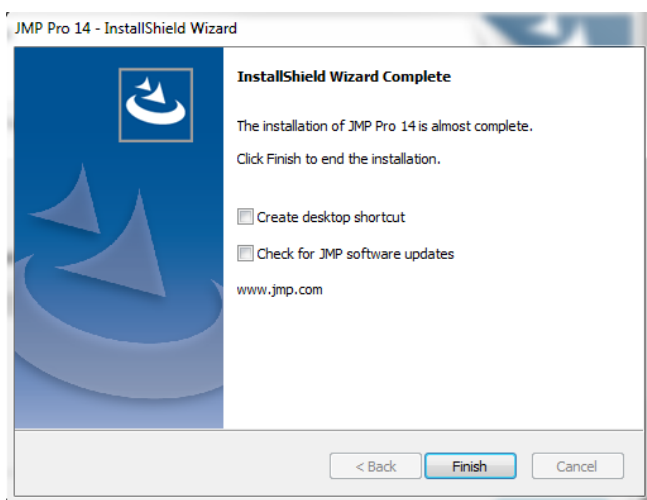
You may want to check the "Create desktop shortcut" box and click the "Finish" button.

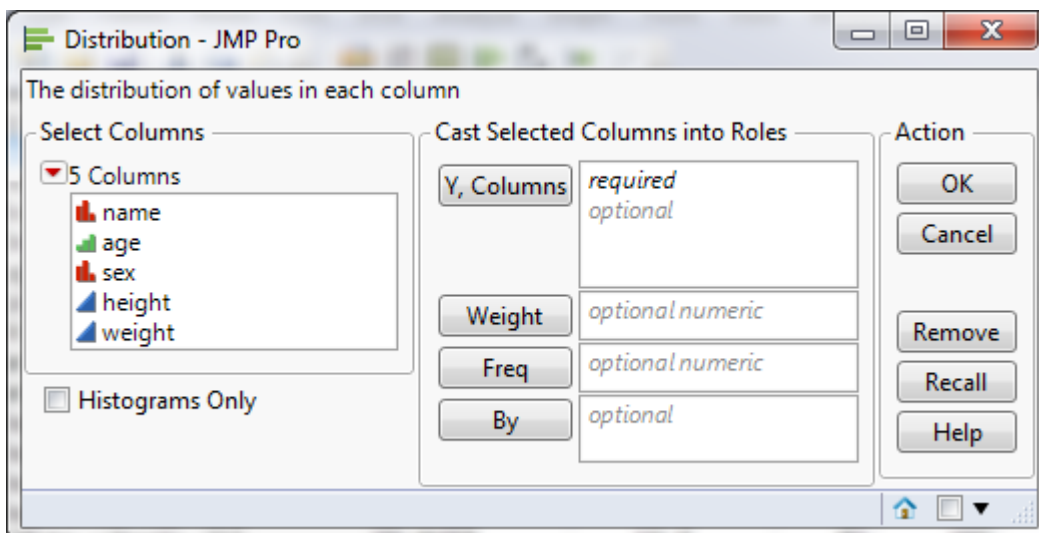Then, start JMP Pro 14 by double clicking the shortcut.

1. Select Help > Sample Data Library and open Big class.jmp. You will see the following screen:

2. Select Analyze > Distribution. The following screen will pop up.

3. Select age and height and click Y, Columns, as shown below:
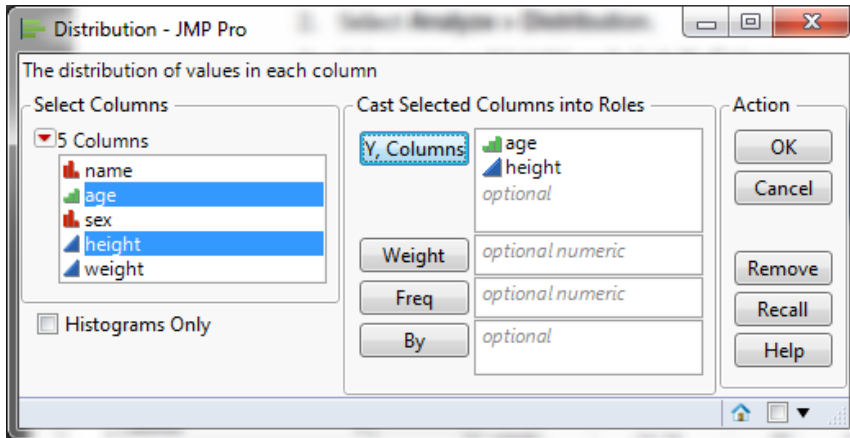
4. Click OK. You will see the following screen:
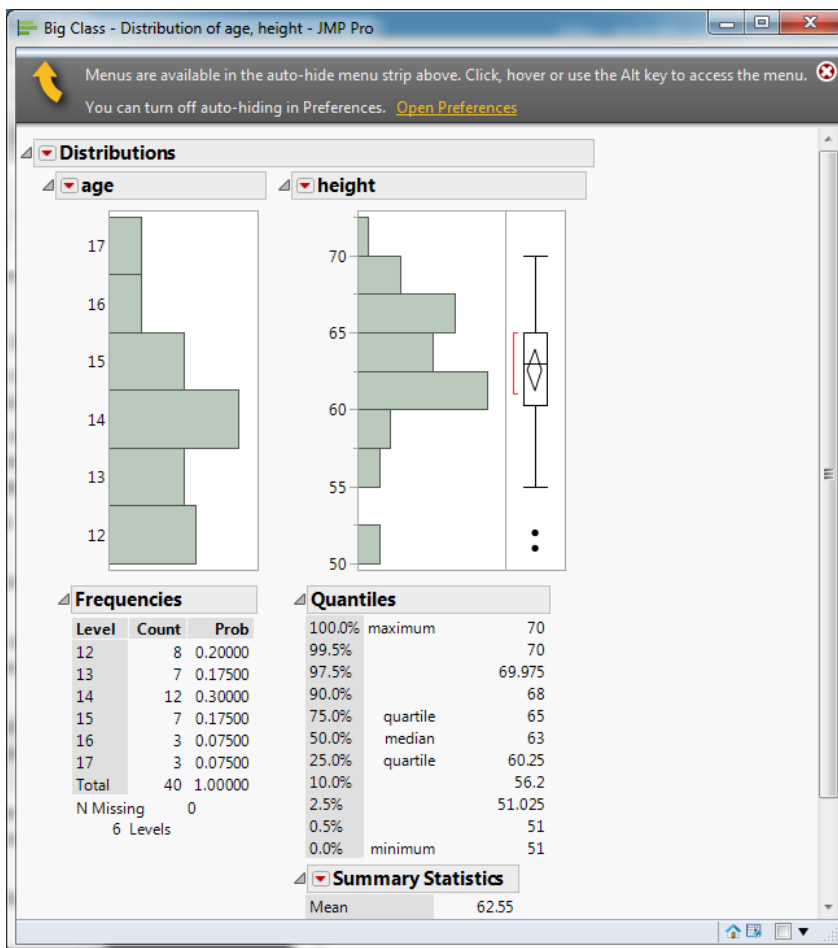
Capture this screen and paste it to your submission file.