

MET CS 689 Designing and Implementing a Data Warehouse

Assignment 1A: Install Database and Python tools



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# Overview of the Assignment:

This first assignment installs some of the tools that will be needed for the first weeks of this class.

# Part 1 – Install a database system.

Take a screenshot showing that you have a working database system on your machine by getting the version information.

* Graphical user interface

  Description automatically generatedBelow is screenshot about PostgreSQL database server.

# Part 2 – Restore US National Statistics Database

***Alter and run the following SQL commands and take a screenshot showing the results of each:***

***Look to add two additional columns to the code below (both select statements), these two columns will repeat for each record:***

* ***MyName***
* ***CurrentDateAndTime***

***SQL Commands to alter and run:***

1. ***SELECT education\_codes.\* FROM education\_codes;***
2. ***SELECT COUNT(\*) as CountOfRecords FROM household\_income***

* Below are screenshots for SQL commands above with MyName, CurrentDataAndTime without time zone:

Graphical user interface, text, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

* Below are screenshots for SQL commands above with MyName, CurrentDataAndTime with time zone:

Graphical user interface, text

Description automatically generated with medium confidence

Graphical user interface, text, application, email

Description automatically generated

# Part 3 – Install Anaconda / Jupyter notebook.

Take a screen shot of the opened file.

Graphical user interface, text

Description automatically generated

# Grading Criteria

Use the **Ask the Teaching Team Discussion Forum** if you have any questions regarding the how to approach this assignment.

Save your assignment as ***lastnameFirstname\_assign1\_A.docx*** and submit it in the *Assignments* section of the course.

For help uploading files please refer to the *Technical Support* page in the syllabus.

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| --- | --- | --- | --- | --- | --- | --- |
| Criterion | A | B | C | D | F | Letter Grade |
| Correctness and Completeness of Results (70%) | All steps' results are entirely complete and correct | About ¾ of the steps' results are correct and complete | About half of the steps' results are correct and complete | About ¼ of the steps' results are correct and complete | Virtually none of the step's results are correct and complete. |  |
| Constitution of SQL/Python and Explanations (30%) | Excellent use and integration of appropriate SQL/Python constructs and supporting explanations | Good use and integration of appropriate SQL/Python constructs and supporting explanations | Mediocre use and integration of appropriate SQL/Python constructs and supporting explanations | Substandard use and integration of appropriate SQL/Python constructs and supporting explanations | Virtually all SQL/Python constructs and supporting explanations are unsuitable or improperly integrated |  |
|  |  |  |  |  | Assignment Grade: |  |