**953212 DB SYS & DB SYS DESIGN 65/1**

**(Lab1) Dealing with traditional file with Java (5 points)**

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In this lab, you are going to apply your programming and problem-solving skills to generate small report from one given file, namely QS world University Ranking 2017.csv

Information about data are describes as follows:

**Part 1) Data Set Information and Attribute Information:**

1. (1 point) What are the meta data for the given data? please list all

**Answer**: year, rank\_display, university, score, link, country, city, region and logo.

1. (1 point) List all the data type of each attribute.

**Answer**: year data type is Integer,

rank\_display data type is Integer,

university data type is String,

score data type is Double,

link data type is String,

country data type is String,

city data type is String,

region data type is String,

logo data type is String,

**Part 2) Basic descriptive with Java**

1. (1 point) Write a Java program to open, read, and close the given CSV file.

**Answer**: A screenshot of a computer

Description automatically generated

1. (1 point) Insert Chiang Mai University to the record in year 2017

**Answer:** Graphical user interface

Description automatically generated

More info can be found here: https://www.topuniversities.com/universities/chiang-mai-university

1. **[Extra credit ]** What problem have you found when you are dealing with the tradition database files? Explain in detail? (e.g., domain integrity, NULL values, etc.) (2 points)

**Answer:** Hard to manage traditional database with java. When I do or write something wrong in java and don’t use try catch all the data in csv file will gone.

**Submission**

Submit your Java source code Main.java, UniData.java to MSteam under Lab1.

You can write Part 1 answer in your Main.java using comment.

Late submission -2