

Richard Patrick

Due: 8/29/16

310-01

A1

11. A &B

STU_ID	STUDENT_ NAME	CLASS_ CODE	CLASS_ NAME	CLASS_ CREDHRS	INSTR_ NAME	CLASS_ DAYS	CLASS_ TIMES	ROOM
1902294	Richard Patrick	1715	CIS310	3	Dr. Guan	MW	11-12:15	008
1902294	Richard Patrick	1732	MGMT301	3	Dr. Myers	MW	2:30-3:45	226
1902294	Richard Patrick	4130	CIS350	3	Dr. Zurada	TTh	11-12:15	008
1902294	Richard Patrick	1674	CLAW301	3	Dr. Blum	TTh	1-2:15	201
1902294	Richard Patrick	9001	CIS200	3	Dr. Wright	TTh	2:30-3:45	304
1204486	Bharadwaj Jagatheesan	1715	CIS310	3	Dr. Guan	MW	11-12:15	008
1204486	Bharadwaj Jagatheesan	4130	CIS350	3	Dr. Zurada	TTh	11-12:15	008
1204486	Bharadwaj Jagatheesan	1738	CLAW301	3	Dr. Smith	MW	1-2:15	205
1204486	Bharadwaj Jagatheesan	1739	MGMT301	3	Dr. Myers	TTh	9:30-10:45	205
1703558	Christian Boudreau	1715	CIS310	3	Dr. Guan	MW	11-12:15	008
1703558	Christian Boudreau	9524	FIN301	3	Dr. Brandi	MW	8-9:15	106
1703558	Christian Boudreau	1704	MKT301	3	Dr. Sharp	MW	2:30-3:45	106
1703558	Christian Boudreau	9001	CIS200	3	Dr. Wright	TTh	2:30-3:45	304

C. 1. The sources of redundancy in this set of data would be in the student data and the class data. The student data contains a student's id and student's name repeated multiple times. The class data contains the class code, name, instructor, times, etc. and if three students are taking the same class, the same data is repeated over multiple lines.

2. Trying to update data on a specific class in this spreadsheet could lead to an update anomaly. For example, suppose the time of the CIS 310 class changes from 11:00-12:15 to 1:00-2:15. That

means this change must be updated three times because three different students are taking that same class. This data is located all in one file so it would be very easy to skip or miss a record that needs to be updated. If this change is not updated in all locations, it will lead to an update anomaly which would compromise the integrity of the data. On the other hand, if the class data had its own table, you would only have to update the record once.