**ITEC 3200- Class Assignment Introduction to Databases**

Student Name:

Class assignments are assigned on a weekly basis. Please ensure to review all the content for week 1 prior to completing the class assignment. This includes the PPTs and video recordings and other resources posted under the following two content folders in d2l

* -Introduction to the Course
* -Introduction to Databases

The answers for class assignments will be posted the week after. Class assignments are graded for completion so it is a learning opportunity for you. However, grades will be assigned for efforts put in to class assignments. All questions need to be attempted.

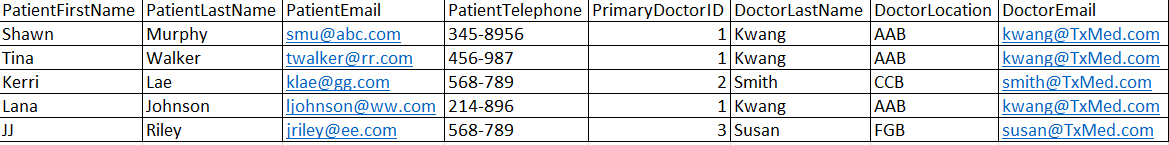
1. Please list the major purpose of a database? (3-4 sentences)

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| * + Organize   + Store   + Retrieve   + Search   + Helps to enforce security |

1. What are some problems that might be present with keeping track of data in a simple excel spreadsheet? (3-4 sentences or bullet points)

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| There are problems when we try to update, insert or delete records. Tracking data in spreadsheets can result in data redundancy. When we try to update data, we might need to go to multiple locations to update this data. This can cause errors and overhead. When we try to insert data, there could data that could be missing resulting in ambiguous data. Deleting records could result in other types of data being lost. |

1. Refer to the following list of data and answer the questions below



2A. What do you think this list is used for keeping track of?

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| Patient and their doctors |

2B. How many records are there in this list?

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| 5 |

2C. How many fields are there in this list?

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| 8 |

2d. Is there a data redundancy problem with the list? Briefly explain

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| Yes, there is. The doctor- Kwang is listed three times in the list and if we need to update data for the doctor, we need to go to three places and this causes a redundancy problem. |

2e. Can you think of a solution from a relational database to this problem

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| We can break the list in to two separate tables- -patient and doctor. This will reduce update, insert and delete problems in keeping track of data. |

Please ensure to save and upload the completed document to the d2l class assignment folder- Introduction to Databases.