



# **CPSC203: (DATABASES) WEEK-3 LAB-2**

## **DATABASES REVIEW**

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## COURSE WEBSITE

[http://wiki.ucalgary.ca/page/  
Courses/Computer\\_Science/  
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# EXPORTING SPREADSHEET DATA INTO ACCESS

## TASKS:

- Import Data from an Excel file into a table called Survey Data.
- Create 5 queries from the imported SurveyData as follows:
  - One query selects websites of Rank1
  - One query selects websites of Rank2
  - One query selects websites of Rank3
  - One query selects websites of Rank4
  - One query selects websites of Rank5



# EXPORTING SPREADSHEET DATA INTO ACCESS

- Create a union query that groups data from the 5 queries created Previously. reate a new table called WebsiteRankings and keep it empty.
- Create an append query that would use the data from the union query (in step 3) to populate that table.
- Create a query to calculate the scores for the different websites
- Create a query to summarize the calculated website scores.



# DATABASE OVERVIEW

Consider the following data set:  
Student\_table:

studentID	Status	Name	Birthdate	Nickname
10034445	Graduate	Robin Smith	12/05/1983	superman
10045565	Undergraduate	Mike Johnson	11/09/1984	sparky
10036675	International	Tina Parker	09/02/1986	spygirl
10035677	Undergraduate	Md. Ali	07/11/1985	hulk

Library\_table:

LibraryID	Department	studentID	BooksHeld
335566	Economics	10034445	3
787767	Computer Science	10045565	5
576878	Mathematics	10036675	2
545466	Mathematics	10035677	8



# DATABASE OVERVIEW

## TASKS:

- Create two tables in ACCESS: **Student\_info** and **Student\_library**. In these tables set Field Names and set Field Data Types to reflect the fields and values in the tables of the same name above (i.e. Text, Date, Number as appropriate)
- In **Student\_info**: set *studentID* as the primary key and set the default value for Nickname to “Donuts”
- In **Student\_library**: set *LibraryID* as the primary key.
- Enter the data above into the two tables: **Student\_info** and **Student\_library**.



# DATABASE OVERVIEW

## TASKS:

- Do a query that combines all the data from both tables. Include the field *studentID* only once. Name this query: **qry1\_stu\_library**.
- Do a query that combines data from both tables, but only for members from “Mathematics”. Name this query: **qry2\_stu\_math**
- Do an aggregate query where groups are defined by the field *Status* and that sums the field *Bookheld*. Call this query: **qry3\_\_SumBooks**.
- Do a query similar to the one above, but now listing *Booksheld* sum data only for student from department of “Mathematics”. Name this query: **qry4\_booksheld\_math**.



# DATABASE OVERVIEW

## TASKS:

- Using the **Crosstab Query Wizard**, and selecting **qry1\_stu\_library** as your data source, do a crosstab query where rows are from the field **Status**, columns are from the field **Department** and the data is from the field **Booksheld**. Choose “Avg” as the function used to summarize the data. Name this query: **qry5**.
- Do a query on **Student\_info** that creates a new field, **StatusName** which concatenates (“adds” together) data from the fields: **Status**. For example a datum in this new field would be: “GraduateRobin Smith”. Display all three of these fields in the query result. Name this query: **qry6**.

