CGS 2545: Database Concepts Fall 2010

LAB #7

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CGS 2545: Database Concepts (Lab #7)

Lab #7 – SQL In Access

- The objective of this lab is to introduce you to SQL in Access.
- For this lab, I'll use the supplier-parts-jobs-shipments database that we created in Lab #4. Its available in the on WebCourses.
- As with previous labs start Access and maximize the window. If Security Warning message bar appears, Click on options ... and choose Enable this content.

NOTE: In the slides that follow, if the call-out symbol is outlined in red, it means that there is something for you to try, if the call-out is outlined in blue, I am simply giving you some information about what is displayed on that page.



CGS 2545: Database Concepts (Lab #7)

Changing the Font Size For Tables/Queries

- The default font size in which Tables and Query expressions are displayed in Access is 8pt. This is sometimes fairly small, particularly when query expressions get lengthy.
- In this first step I'll show you how to reset the font size. If you want to skip this part that's fine too, you can always refer back to it later if you decide you want to change the font size.
- To change the font size do the following:
 - Click Office button on the top left corner of access window, and then click Access Options on the bottom right of the pop-up menu. You should see the window shown on the next slide.



Changing Font Size

Office button

	• (P •) =	1. Click the Object - • ×
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All Access C	Datasheet	Table design
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Supplie	Trust Center	Query design TONT, If YOU WANT) to whatever you prefer
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Ready		OK Cancel
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Creating A New SQL Query

- Assuming you have opened the suppliers-parts-jobs-shipments database.
- On navigation panel, there is a list of queries under **Queries** group . You might have to select **All Access Objects** or **Queries** from the pull-down menu (at the top of the navigation panel) to see the list.





Creating A New SQL Query

- You begin the creation of a new SQL query just like you begin the creation of any other query in Access. The only difference is that you'll use the SQL view instead of the Design View.
- The following steps illustrate how to create an SQL query.
 - Click the **Create** tab.
 - Click the **Query Design** button on the **Other** group.
 - When the Show Table dialog box appears, click its Close button.
 - Maximize the Query1: Select Query window.
 - On the View button, click SQL View
 - (or just Click SQL View on the toolbar.)
- The following few slides illustrate these steps.











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Creating An SQL Query

- At this point you've got the SQL window up, so let's create an SQL query just like some of those we've done in class using this same database.
- Let's create an SQL query expression to answer the query "List all the supplier numbers and names."

SELECT snum, sname

```
FROM suppliers;
```

CGS 2545: Database Concepts (Lab #7)













Creating An SQL Query

- Now let's create a query expression involving the join of two tables.
- Let's create an SQL query expression to answer the query "List all the supplier numbers and names for those suppliers who have a shipment of part number 3."

SELECT snum, sname

FROM suppliers NATURAL JOIN shipments WHERE pnum = 3;



CGS 2545: Database Concepts (Lab #7)



Lab Work

You now have all the basic tools you need to build and utilize Access databases including those necessary to complete your database project for this course. Next week the project begins!

Try a few more SQL queries in Access if you'd like otherwise, go ahead an continue to work on your project! Good luck!

Lab Assignment #7

Lab Assignment #7 – Due Tuesday November 9th by 11:55 pm (WebCourses time) – 25 points

Using the supplier-parts-jobs-shipments database create SQL query expressions for the following 3 queries.

- 1. List the names of those suppliers who have a shipment with a quantity greater than 12.
- 2. List the names of those suppliers who have a shipment of both a red and a green part.
- 3. List the part number and name of those parts that are red and are located in Orlando.

Submit a screen shot of each of your query expressions and of the result set from executing each of your expressions. NOTE: Please use the following naming convention for your uploaded files:

HW07_FirstNameLastName or HW07_FirstNameLastName

CGS 2545: Database Concepts (Lab #7)

Page 22