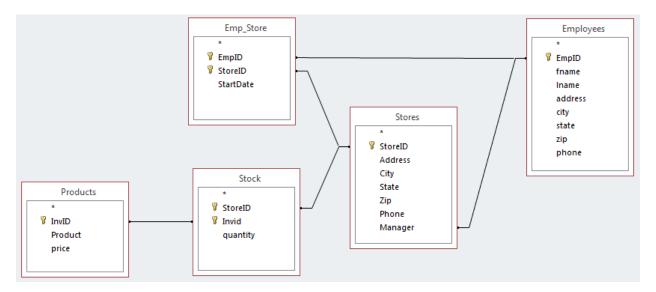
### Assignment 3: Using Databases

In this assignment, you will run basic SQL queries to query and update store, product, and employee information.

Attempt this assignment yourself, then when you feel either **Lost** or **Successful**, watch this walkthrough video and correct any mistakes you might have made: <a href="https://bit.ly/DB1-A3">https://bit.ly/DB1-A3</a>



For each question, provide the SQL query and a screenshot of the results (unless otherwise noted) in a word document.

WRITE THE SQL QUERIES BY HAND! I realize it is possible to do most of this using the graphical "QBE" tool within Access – the SQL it creates is slightly different than the examples I gave you, so it will be obvious if you do this.

**DO YOUR OWN WORK** – I am fine with you all discussing the assignment with one another, but you should each individually type and run the SQL statements and **do your own screenshots and create your own document**.

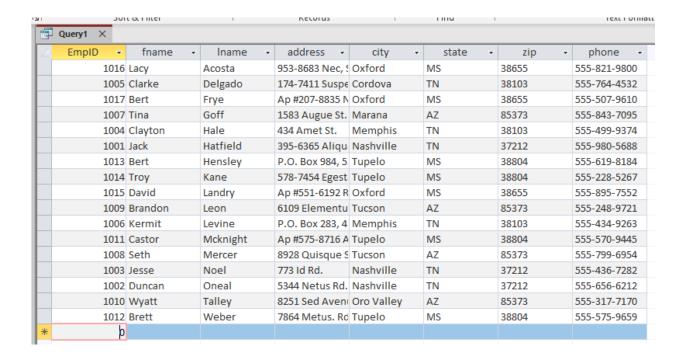
You can find more SQL tutorials online, for example: http://www.w3schools.com/sql/

- Put your name in the header section of the word file
- Name your file lastname\_a3.docx (i.e. grimes\_a3.docx)

As an example I will do number 1 for you!

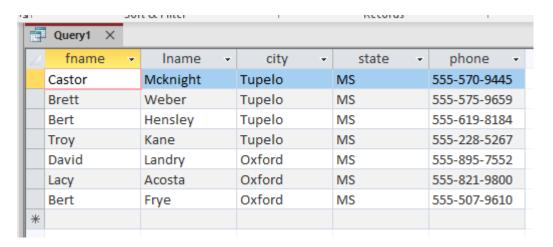
#### 1. Select all attributes for all employees and order them alphabetically by last name:

SELECT \* FROM Employees ORDER BY Iname;



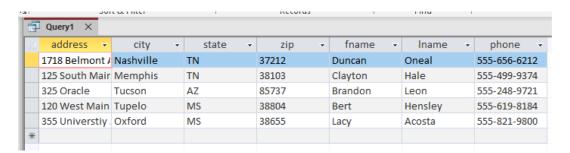
## 2. Select the first name, last name, city, state and phone number for all employees living in Mississippi (MS)

SELECT fname, Iname, city, state, phone FROM Employees WHERE state = 'MS';



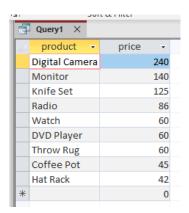
3. For each store, display the store's address, city, state, zip, the manager's first and last name, and manger's phone number

SELECT Stores.address, Stores.city, Stores.state, Stores.zip, fname, Iname, Employees.phone FROM Stores INNER JOIN Employees ON Stores.manager = Employees.empid;



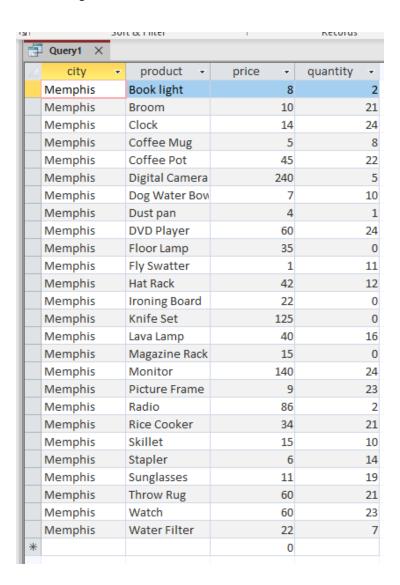
4. Display the names and prices of products with a price over \$40, ordered so that the most expensive item is at the top and the least expensive item is at the bottom

SELECT product, price FROM Products WHERE price > 40 ORDER BY price DESC;



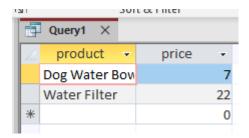
5. Display the inventory for the Memphis store. Display the city, product, price and quantity. List each item alphabetically with the price and quantity in stock. If you cannot get the entire list in one screenshot that is OK – just take a screenshot that shows the first 10 items.

SELECT city, product, price, quantity
FROM (Products INNER JOIN Stock ON Products.invid = Stock.invid)
INNER JOIN Stores ON Stores.storeid = Stock.storeid
WHERE city = 'Memphis'
ORDER BY product;



# 6. Display the name and price of all product with the word "water" anywhere in the product name.

SELECT product, price FROM Products WHERE product LIKE '\*water\*';



7. Add a new employee with the following information (No Screenshot needed)

Employee ID: 9999 Name: Molly Smith

Address: 125 Timber Lane

City: Oxford State: MS Zip: 38655

Phone: 662-555-3245

INSERT INTO Employees (empid, fname, lname, address, city, state, zip, phone) VALUES (9999, 'Molly', 'Smith', '125 Timber Lane', 'Oxford', 'MS', '38655', '662-555-3245');

8. Associate the employee created in #7 with the Tucson store. Start date is 3/23/2019. (No Screenshot needed)

INSERT INTO Emp\_Store(empid, storeid, startdate) VALUES(9999, 3, '3/23/2019');

9. You are changing management styles! Make the employee you created in #7 the manager for all stores in Mississippi (MS) – do this using one SQL command (No Screenshot needed)

UPDATE Stores SET manager = 9999 WHERE state = 'MS';

10. For each store, display the address, city, state, zip, manager's first and last name, and manger's phone number (Do this AFTER steps 7-9)

SELECT Stores.address, Stores.city, Stores.state, Stores.zip, fname, Iname, Employees.phone FROM Stores INNER JOIN Employees ON Stores.manager = Employees.empid;

### Shashank Bhushan

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П		125 South Mair	Memphis	TI	N		38103		Clayton		Hale		555-499-937	74
П		325 Oracle	Tucson	A	Z		85737		Brandon		Leon		555-248-972	21
П		120 West Main	Tupelo	M	IS		38804		Molly		Smith		662-555-324	15
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