**SQL SELECT Practice Exercises **

**Use the “items\_customers\_database.accdb” (mailed to you separately) for these practice exercises. This database has the following two tables:**

*1. items\_ordered*

*2. customers*

**Practice Exercises 1 (Comparison Operators)**

1. From the *items\_ordered* table, select a list of all items purchased for customerid 10449. Display the customerid, item, and price for this customer.

2. Select all columns from the *items\_ordered* table for whoever purchased a **Tent**. 3. Select the customerid, order\_date, and item values from the items\_ordered table for any items in the item column that start with the letter "S".

4. Select the distinct items in the items\_ordered table. In other words, display a listing of each of the unique items from the items\_ordered table.

**Practice Exercises 2 (Aggregate Functions)**

1. Select the maximum price of any item ordered in the items\_ordered table. Hint: Select the maximum price only.

2. Select the average price of all of the items ordered that were purchased in the month of Dec. 3. What are the total number of rows in the items\_ordered table?

4. For all of the tents that were ordered in the items\_ordered table, what is the price of the lowest tent? Hint: Your query should return the price only.

**Practice Exercises 3 (Group By clause)**

1. How many people are in each unique state in the customers table? Select the state and display the number of people in each. Hint: **count** is used to count rows in a column, **sum** works on numeric data only.

2. From the items\_ordered table, select the item, maximum price, and minimum price for each specific item in the table. Hint: The items will need to be broken up into separate groups. 3. How many orders did each customer make? Use the items\_ordered table. Select the customerid, number of orders they made, and the sum of their orders. Click the Group By answers link below if you have any problems.

**Practice Exercises 4 (HAVING clause)**

1. How many people are in each unique state in the customers table that have more than one person in the state? Select the state and display the number of how many people are in each if it's greater than 1.

2. From the items\_ordered table, select the item, maximum price, and minimum price for each specific item in the table. Only display the results if the maximum price for one of the items is greater than 190.00.

3. How many orders did each customer make? Use the items\_ordered table. Select the customerid, number of orders they made, and the sum of their orders if they purchased more than 1 item.

Page 1 of 2

**SQL SELECT Practice Exercises **

**Practice Exercises 5 (ORDER BY clause)**

1. Select the lastname, firstname, and city for all customers in the customers table. Display the results in Ascending Order based on the lastname.

2. Same thing as exercise #1, but display the results in Descending order.

3. Select the item and price for all of the items in the items\_ordered table that the price is greater than 10.00. Display the results in Ascending order based on the price.

**Practice Exercises 6 (Combining Conditions & Boolean Operators)**

1. Select the customerid, order\_date, and item from the items\_ordered table for all items unless they are 'Snow Shoes' or if they are 'Ear Muffs'. Display the rows as long as they are not either of these two items.

2. Select the item and price of all items that start with the letters 'S', 'P', or 'F'. **Practice Exercises 7 (IN & Between)**

1. Select the date, item, and price from the items\_ordered table for all of the rows that have a price value ranging from 10.00 to 80.00.

2. Select the firstname, city, and state from the customers table for all of the rows where the state value is either: Arizona, Washington, Oklahoma, Colorado, or Hawaii.

**Practice Exercises 8 (Mathematical Functions)**

1. Select the item and per unit price for each item in the items\_ordered table. Hint: Divide the price by the quantity.

**Practice Exercises 9 (Table Joins)**

1. Write a query using a join to determine which items were ordered by each of the customers in the customers table. Select the customerid, firstname, lastname, order\_date, item, and price for everything each customer purchased in the items\_ordered table.

2. Repeat exercise #1, however display the results sorted by state in descending order.

Page 2 of 2