**ASG3: Select; Sorting & Filtering; Expression & Functions**

**Save file as ASG3\_YourLastName**

**Question 1 to 4: 0.5 point each**

**Question 5 to 12: 1 point each**

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**(1) What are the first name, last name and email addresses Johnston’s sales people that their first name starts with letter J:**

**SELECT FirstName, LastName, EmailAddress**

**FROM SALESPERSON**

**WHERE FirstName LIKE "J%";**

**(2) What districts are the parent accounts from (list unique districts):**

**SELECT DISTINCT District**

**FROM PARENTACCOUNT;**

**(3) Johnston would like a list of their Customer Service Representatives sorted by their last name in reverse alphabetical order (include first name and last name columns in that order):**

**SELECT FirstName, LastName**

**FROM CUSTOMERSERVICEREP**

**ORDER BY LastName DESC;**

**(4) Create a list of the 100 most expensive invoices (include all columns):**

**SELECT TOP 100 \***

**FROM INVOICE**

**ORDER BY InvoiceTotal DESC;**

**(5) Find all the customers whose business city is Buffalo and list all of their information:**

**SELECT \***

**FROM CUSTOMER**

**WHERE BusinessCity = "Buffalo";**

**(6) Johnston would like a list of all of the items sold that a have unit price between $10.00 and $100.00 (include all columns):**

**SELECT \***

**FROM ITEM**

**WHERE UnitPrice>10**

**AND UnitPrice<100;**

**(7) Johnston would like a list of customer names from New York and with “780 – Lodging” SIC code or are from Massachusetts:**

**SELECT CustomerName, BusinessState, SIC\_Code**

**FROM CUSTOMER**

**WHERE (BusinessState = "NY" AND SIC\_Code = "780 - Lodging")**

**OR BusinessState = "MA";**

**(8) Create a new column showing the customers business city, business state, and business zip code and title it “Business Location”:**

**SELECT TRIM(BusinessCity)+", "+BusinessState+ " " +BusinessZip**

**AS BusinessLocation**

**FROM CUSTOMER;**

**(9) Create two new columns returning the following for all items sold: Major Category (all uppercase) and Vendor Name (all lower case)**

**SELECT UCASE(MajorCategory) AS Upper\_MajorCategory, LCASE(VendorName) AS Lower\_VendorName**

**FROM ITEM;**

**(10) Return the first 3 digits of customers’ SIC\_CODE from Saratoga Springs.**

**SELECT BusinessCity, LEFT(SIC\_Code,3) AS First3\_SIC\_Code**

**FROM CUSTOMER**

**WHERE BusinessCity = "Saratoga Springs";**

**(11) Find all Invoice numbers for November 2018.**

**SELECT InvoiceDate, InvoiceNumber**

**FROM INVOICE**

**WHERE DATEPART('m', InvoiceDate) = 11**

**AND DATEPART('yyyy',InvoiceDate) = 2018;**

**(12) Calculate the total cost for the following invoices: 1679355-00, 1679428-00,** **1679650-00, 1679876-00.**

**SELECT SUM(InvoiceTotal)**

**FROM INVOICE**

**HAVING InvoiceNumber ="1679355-00"**

**OR InvoiceNumber ="1679428-00"**

**OR InvoiceNumber ="1679650-00"**

**OR InvoiceNumber ="1679876-00"**