# CS374 – ASSIGNMENT #5

## NAME: Aaron Borjas DUE: 15 Oct Received: .

**GRADE:**

|  |  |  |
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| **CATEGORY** | **POINTS** |  |
| EX05\_01 |  | 10 |
| EX05\_02 |  | 10 |
| EX05\_03 |  | 10 |
| EX05\_04 |  | 10 |
| EX05\_05 |  | 10 |
| EX05\_06 |  | 10 |
| EX05\_07 |  | 10 |
| EX05\_08 |  | 10 |
| EX05\_09 |  | 10 |
| EX05\_10 |  | 10 |
|  |  |  |
| **TOTAL** |  | 100 |

## READING: Elmasri Sections 10.1-10.3, 10.5

## EXERCISES:

**The queries in this homework assignment are using the northwind database, available on our Teams site. Write a program to answer each of the given queries using any embedded SQL solution. Your program should give the user a menu from which to choose the query to execute. Display the SQL and only up to the first five rows of the result.**

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| **EX05\_01**  **Access** | List the results of giving a 10% increase to the list price of all products. Be sure to give a real attribute name to the new unit price (that is, I don’t want to see “expr1” as the attribute name).  SELECT P.[ProductName], 1/10\*(P.[List Price]) AS [List Price + 10%]  FROM Products P |
| **EX05\_02**  **Access** | List the maximum, minimum, and average target level of the products. Be sure to give a real attribute name to the result (that is, I don’t want to see “expr1” as the attribute name).  SELECT MAX(P.[Target Level]) AS [Max Target Level], MIN(P.[Target Level]) AS [Minimum Target Level], AVG(P.[Target Level]) AS [Average Target Level]  FROM Products P |
| **EX05\_03**  **Access** | How many products are currently discontinued? Be sure to give a real attribute name to the count (that is, I don’t want to see “expr1” as the attribute name).  SELECT COUNT(\*) AS [Discontinued Products]  FROM Products P  WHERE P.[Discontinued] = true |
| **EX05\_04**  **Access** | List all Products whose product name contains the word ‘dried’.  SELECT P.[ProductName]  FROM Products P  WHERE P.[ProductName] LIKE “\*dried\*” |
| **EX05\_05**  **Access** | List all products that are beverages and are not discontinued.  SELECT P.[ProductName]  FROM Products P  WHERE P.Category = “Beverages” AND P.Discontinued = false |
| **EX05\_06**  **SQL Server** | List the names of shippers who shipped orders where the shipping fee > 100.  SELECT S.Company  FROM Orders O, Shippers S  WHERE O.ShipperID = S.ID AND O.[Shipping Fee] > 100 |
| **EX05\_07**  **SQL Server** | List the names of all employees and their job title.  SELECT E.[First Name], E.[Last Name], E.[Job Title]  FROM Employees E |
| **EX05\_08**  **Access** | List the ship date for all Orders, and if there is an employee assigned to the order, list the employee’s name.  SELECT O.[Shipped Date], E.[First Name], E.[Last Name]  FROM Orders O, Employees E  WHERE O.EmployeeID = E.ID |
| **EX05\_09**  **SQL Server** | List the maximum, minimum, and average prices for all products.  SELECT MAX(P.[List Price]) AS [Max Price], MIN(P.[List Price]) AS [Min Price], AVG(P.[List Price]) AS [Average Price]  FROM Products P |
| **EX05\_10**  **SQL Server** | List each product category, and for each category, list the maximum, minimum, and average prices for products in that category.  SELECT P.Category, Max(P.[List Price]) AS [Max Price], MIN(P.[List Price]) AS [Min Price], AVG(P.[List Price]) AS [Average Price]  FROM Products P  GROUP BY P.[Category] |