# CS374 -- ASSIGNMENT #2

## NAME: Aaron Borjas DUE: 29 Sept Received: .

**GRADE:**

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| **CATEGORY** | **POINTS** |  |
| EX02\_01 |  | 30 |
| EX02\_02 |  | 30 |
| EX02\_03 |  | 10 |
| EX02\_04 |  | 10 |
| EX02\_05 |  | 10 |
| EX02\_06 |  | 10 |
|  |  |  |
| **TOTAL** |  | 100 |

## READING: Elmasri Sections 5.1, 6.1-6.3, 6.5

## EXERCISES:

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| **EX02\_01** | Exercise 6.10, Elmasri p. 203. Turn in the query in SQL only. Hint: To test your SQL, it would be wise to create the schema in a DBMS, and then write the query.  a)  SELECT E.Fname, E.Ssn, W.Hours, E.Dno  FROM EMPLOYEE AS E, DEPARTMENT AS D, WORKS\_ON AS W  WHERE E.Ssn=W.Essn AND W.Hours>0 AND E.Dno=4;  b)  SELECT E.Fname, D.Dependent\_name  FROM EMPLOYEE AS E, DEPENDENT AS D  WHERE E.Fname = D.Dependent\_name  c)  SELECT E.Fname, E.Dno  FROM EMPLOYEE AS E, DEPARTMENT AS D  WHERE D.Mgr\_ssn = E.Super\_ssn |
| **EX02\_02** | Exercise 6.12 (a, b, and d), Elmasri p. 204. Turn in the query in SQL only. Hint: To test your SQL, it would be wise to create the schema in a DBMS, and then write the query.  a)  SELECT S.Lname  FROM STUDENT AS S  WHERE S.Class = 4 AND S.Major = "CS"  b)  SELECT C.Course\_name, S.Year\_taught  FROM COURSE AS C, SECTION AS S  WHERE S.Instructor = "King" AND C.Course\_number = S.Course\_number  d)  SELECT STU.Lname, C.Course\_name, C.Course\_number, SEC.Section, C.Credit\_hours, SEC.Semester, SEC.Year\_taught, GR.Grade  FROM STUDENT AS STU, GRADE\_REPORT AS GR, [SECTION] AS SEC, COURSE AS C  WHERE STU.Class = 4 AND STU.Student\_number = GR.Student\_number AND STU.Major = "CS" AND SEC.Course\_number = C.Course\_number AND SEC.Section = GR.Section\_identifier; |
|  |  |

**The queries below use the northwind database, available using Access or SQL Server. See me for help if you are having trouble. You should include in your answers the SQL you used and up to the first 5 rows of results for your query.**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EX02\_03** | List all products whose unit price is greater than 25.00.  **SELECT P.[Product ID], P.[Unit Cost]**  **FROM PURCHASEORDERDETAILS AS P**  **WHERE P.[Unit Cost] > 25;**   | **CUSTOM QUERY** | | | --- | --- | | **Product** | **UnitCost** | | Northwind Traders Curry Sauce | $30.00 | | Northwind Traders Fruit Cocktail | $29.00 | | Northwind Traders Marmalade | $61.00 | | Northwind Traders Coffee | $34.00 | | Northwind Traders Dried Apples | $40.00 | |
| **EX02\_04** | List the company names of customers whose contact title are not ‘Owner’ and are located in Chicago  **SELECT C.Company**  **FROM Customers AS C**  **WHERE [C.Job Title] <> "Owner" AND C.City = "Chicago"**   | **CUSTOM QUERY** | | --- | | **Company** | | Company J | | Company Y | |
| **EX02\_05** | Find all orders placed by employees in Redmond. For each order, give the shipper’s company name and the Employee’s last name.   | **SELECT O.[ShipperID], Employees.[Last Name]**  **FROM Orders AS O**  **INNER JOIN Employees ON O.[EmployeeID] = Employees.ID**  **Where O.[ShipCity] = "Redmond"** | | | --- | --- | | **CUSTOM QUERY** | | | **Ship Via** | **Last Name** | | Shipping Company A | Freehafer | |
| **EX02\_06** | List the name of all beverages that are not discontinued. |

**SELECT P.[Product Name], P.Discontinued**

**FROM PRODUCTS AS P**

**WHERE P.Category = "Beverages" AND P.Discontinued = 0**

| **CUSTOM QUERY** | |
| --- | --- |
| **ProductName** | **Discontinued** |
| Northwind Traders Chai | No |
| Northwind Traders Beer | No |
| Northwind Traders Coffee | No |
| Northwind Traders Green Tea | No |
| Northwind Traders Tea | No |