

Faculty of Science

**Course**: CSCI 2000U Scientific Data Analysis

**Tutorial:** #2

**Topic:** Part 1: SQL

Your database: Table name (Attribute names)

* Customers (CustomerID, CustomerName, ContactName, Address, City, PostalCode and Country)
* Orders (OrderID, CustomerID, EmployeeID, OrderDate and ShipperID)
* Employees (EmployeeID, LastName, FirstName, BirthDate, Photo, Notes)
* Suppliers (SupplierID, SupplierName, ContactName, Address, City, PostalCode, Country, Phone)
* Products (ProductID, ProductName, SupplierID, CategoryID, Unit, Price)

Write SQL Queries that:

1. Select Orders
   1. Top 10 records
   2. First 10% of the records
2. Select all suppliers with country
   1. starting with the letter “u”
   2. finishing with letter “a” and “y”
   3. that has subset “erm”
   4. phone number with 7th digit “9” (use the underscore wildcard).
3. Select all orders with order date between 1997-01-10 and 1997-01-20
   1. Use aliases to rename attribute names to use spaces
4. Select all customer names with not NULL address
5. Select Orders (order ID, order date), Employees (last name, first name) where the join condition is met and order appears in 1997.
6. Select all the different countries from the customer and suppliers tables
7. Get the first last, sum, maximum and minimum value of the price of products
   1. Use aliases to rename the attribute names
8. Selects the order detail id and quantity records that have an above double the average quantity
9. Counts the number of orders by each employee and only selects the employees who made more than three orders.

You can run all the queries at:

http://www.w3schools.com/sql/trysql.asp?filename=trysql\_select\_all

Save all the queries as SQL\_2.sql.

Create a separate text file SQL\_2\_Results.txt and keep the results of the queries there.

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