

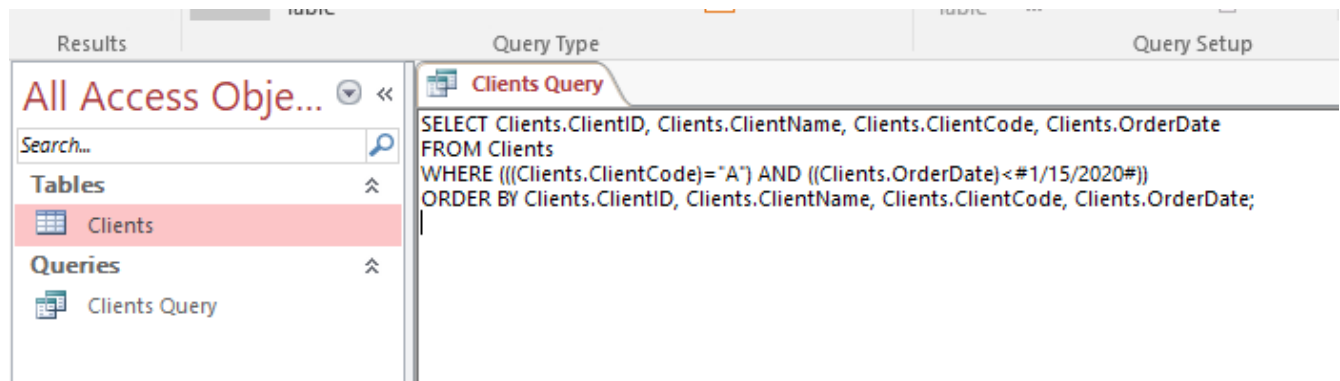
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ITMD 422, Lab 2

## Files

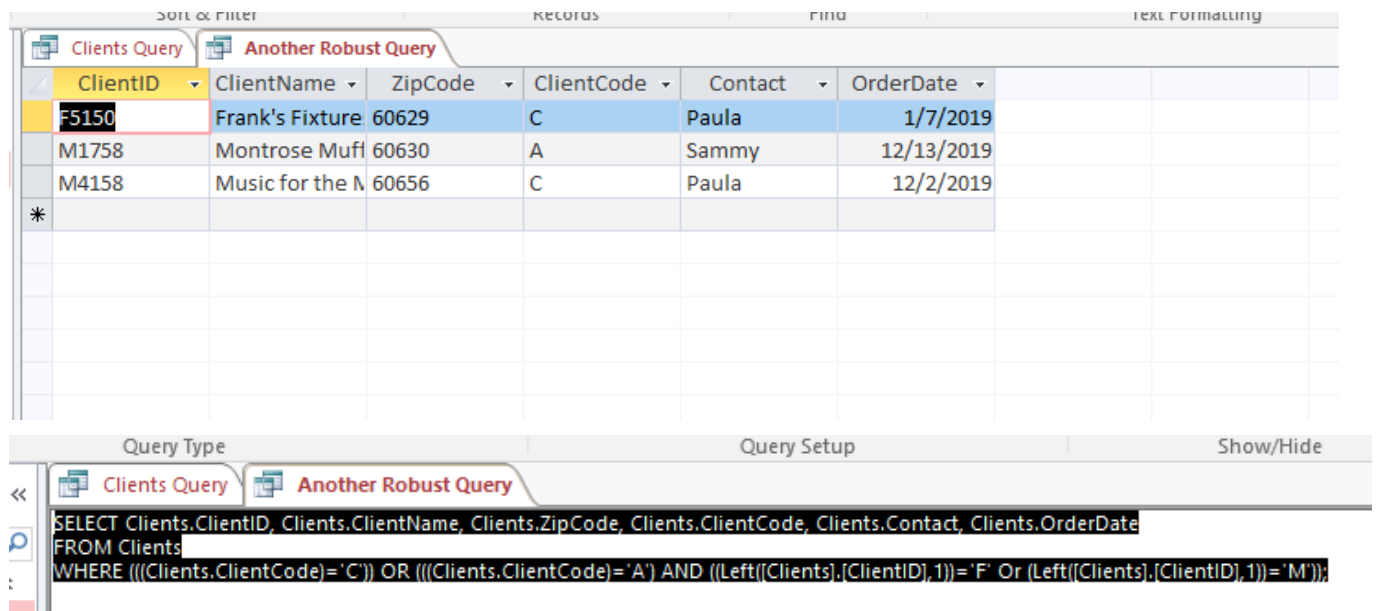
Please see attached `.accdb` and `.pdf` files.

## Screenshots

### SQL Query



### Another Robust Query



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## Yet Another Robust Query

The screenshot displays the Microsoft Access interface. The top ribbon includes 'Views', 'Clipboard', 'Sort & Filter', 'Records', 'Find', and 'Text Formatting'. The 'Views' tab is active, showing a list of objects on the left: 'All Access Objects', 'Tables' (Clients), and 'Queries' (Another Robust Query, Clients Query, Yet Another Robust Query). The 'Yet Another Robust Query' is selected, and its results are displayed in a grid. The grid has columns: ClientID, ClientName, ZipCode, ClientCode, Contact, and OrderDate. The data rows are as follows:

ClientID	ClientName	ZipCode	ClientCode	Contact	OrderDate
B5182	Basic Broadcast	60631	A	Sammy	8/3/2019
D8125	David D. Davies	60625	B	George	2/2/2020
E5051	Edward's Enter	60604	A	Paula	2/28/2020
F5150	Frank's Fixture	60629	C	Paula	1/7/2019
M1758	Montrose Muff	60630	A	Sammy	12/13/2019
M4158	Music for the M	60656	C	Paula	12/2/2019
T0818	Taxes and More	60618	B	Janet	12/20/2021

Below the grid, the 'Query Setup' tab is active, showing the SQL statement for the query:

```
SELECT *
FROM Clients
WHERE ((Clients.ClientID="B5182" Or (Clients.ClientID="D8125" Or (Clients.ClientID="E5051" Or (Clients.ClientID="F5150" Or (Clients.ClientID="M1758" Or (Clients.ClientID="M4158" Or (Clients.ClientID="T0818")))))))
```

## Questions and Reflections Concerning this Database Project

*1) Report generation is important for decision - making. What levels of management are apt to request summary reports on the data?*

Management who deal with large amounts of people, hiring/firing, and resource management people will want summary reports.

*2) How long should summary reports be kept in a business organization?*

Summaries should generally be kept a few months if dealing with data that can change a lot, but after that period they are less useful and more importantly less actionable.

*3) Visit the website <http://www.bn.com> and find at least two textbooks on database management. Place the pertinent information from the books that you have located.*

### **1. Practical SQL: A Beginner's Guide to Storytelling with Data**

This is a book that will not teach you 'how', but 'why' to many questions regarding SQL and database systems.

You will learn how to define the correct data types, use statistics and math, identify errors in data and correct them, all through practical examples.

### **2. SQL Server 2017 Administrators Guide**

This book teaches you how to set up, administer, and maintain a SQL Server 2017 database.

It will show you how to build a stable and fast server environment, fix performance issues by using indexing, perform health checks, and create backup programs.

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4) *Name at least two new fields that may be added to the Books database table.*

The Books table could have a 'cost' and 'genre' field added.

5) *What are the relative operators and the logical operators that may be used to construct specific queries?*

=, >, >=, <, <=, <> are all equality/comparison operators.

= is 'equal to'.

> and < are 'greater than' and 'less than', respectively.

>= and <= are 'greater than or eq' and 'less than or eq', respectively.

<> is 'not equal to'.

There are 3 logical operators in SQL: OR, AND, and NOT.