

# REPORT

Since this assignment is an introductory one, it doesn't make sense to have an extensive technical background section or design section. I'll limit the extent of this report to the discussion part.

I have assumed that the required SQL query to generate such a list in Part I task 3 is sufficient, and I've also assumed that these queries should run dynamically. What I mean by dynamical here is that the query can run without user input, or unwarranted assumptions about the current state of the database.

Due to how incompatible my previous programming experience is with SQL, some of the solutions look quite inelegant. I've discovered that it's quite difficult for me to avoid jumping to iterative or recursive solutions, and the best example of this is probably Part I task 3. number 5, where I constantly found myself implementing code that required a loop at its core. The solution I ended up using does no less than 4 queries, although two of the queries are quite similar, so depending on the under-the-hood implementation of the SQL server, it may only require 3 queries in total. It works by uniquely selecting all orders for the same items as those of the key costumers, then grouping the customers by id, counting the entries, and checking if the number matches the number of items ordered by the key customer.

The implementation in part 3 looked like it would be more difficult at first glance, but after reading the surprisingly poor documentation it turned out to be pretty simple. All I had to do was call the functions specified by the documentation in the variable space provided by the pre-code, I had some difficulties formatting the output as a proper string, but that is not as relevant to the scope of this report. One thing that surprised me was the sheer visibility the c library offered into the process. I ended up doing a very low-level implementation, but I think I can see how I'd implement the same procedure using the wrapper-function provided by the library. Since the task didn't involve any manipulation of the data output by the queries I can't think of anything more interesting to write here.