# Assignment 7 – Reports 1

The typical workflow when dealing with databases is that there are programs that populate the database and users that want to see the data in a particular format. These inputs can be from manual entry, a website where people order items, sensors collecting data, or many more. The output can be a website where people can see the state of the business, a printed report, or a spreadsheet where people can further manipulate the data.

This assignment will give you some practice making these data output queries. Your assignment is to make **10** relatively complex queries. For each query, please describe the point of the query as you imagine it, along with the query.

Example:

I would like to determine the top 10 most profitable items that my website sells.

SELECT TOP 10 itemName,itenNumber FROM item ORDER BY sellPrice-cost DESCENDING

You must use each of the following features from the slides at least once:

Column Renaming

String Patterns

Sets

Distinct

Ordering

Math/Concatenation on Data

Aggregation functions

TOP

Correlated Subquery

**Your script must have a .sql extension and must be uploaded to blackboard. A script that doesn’t run is an automatic 0.**

**You must run each of your queries to test that it works.**

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| --- | --- | --- | --- | --- |
| Rubric | Poor | OK | Good | Great |
| Queries Written with matching description | 0 queries (0) | 1-5 queries (3) | 6-9 queries (5) | 10 queries (10) |
| Column Renaming | Not present (0) |  |  | Present (10) |
| String Patterns | Not present (0) |  |  | Present (10) |
| Sets | Not present (0) |  |  | Present (10) |
| Distinct | Not present (0) |  |  | Present (10) |
| Ordering | Not present (0) |  |  | Present (10) |
| Math/Concatenate | Not present (0) |  |  | Present (10) |
| Aggregation | Not present (0) |  |  | Present (10) |
| TOP | Not present (0) |  |  | Present (10) |
| Correlated Subquery | Not present (0) |  |  | Present (10) |