**1. FILTERING STRATEGIES.**

- There are a couple number of ways to filter data while querying on a database. Some of those ways are using the keywords: SELECT, FROM, WHERE and DISTINCT. These keywords are used to filter out data to get the results for the query. You can also use AND, OR, and NOT to combine rows and columns. The ones I mentioned are one of the main ways to help query the results from your database. Most of the times, they all work well together if you are using the right keywords and you know the right way to use those keywords.

**2. DATA TYPES.**

  - Data type is an attribute that specifies the type of data of any object. It defines the value of the data that it can hold. There are 3 main data types in SQL: String, Numeric, and Date & time. The things to consider when using data types on your query is to always check your data first to make sure that the name, value, and the size are correct before using any data types. The difference between the data types in SQL and C# is, data type in C# stores it’s value in it’s memory while in SQL it defines the value for your database.

Reference:

<https://www.w3schools.com/sql/sql_datatypes.asp>

**3. CONSTRAINTS.**

- SQL constraints are used to specify rules for data in a table. Constraints are used to limit the type of data that can go into a table. This ensures the accuracy and reliability of the data in the table. If there is any violation between the constraint and the data action, the action is aborted. If say that we’re working on an environment that doesn’t use any constraints, you can manually add constraints while writing your query when you create or alter a table.

**4. FUNCTIONS.**

- Functions are used to do various calculations in your data. There are two main types of functions: Aggregate Functions and Scalar Functions. These functions are used to return a specific value from the query when used. They operate on sets of rows and return results based on the group of rows as provided from the arguments and return a value as the result of the operation. This is different from C# as you can type in a formula to properly calculate the results rather than just querying the results from your database.