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**Programming Basics**

**Coding Standards:**

Coding standards are a set of rules, techniques, and best practices to create cleaner, more readable, more efficient code with minimal errors. They offer a uniform format by which software engineers can use to build sophisticated and highly functional code.

**Advantages of implementing Coding Standards:**

* Offers uniformity to the code created by different engineers.
* Enables the creation of reusable code.
* Makes it easier to detect errors.
* Make code simpler, more readable, and easier to maintain.
* Boost programmer efficiency and generates faster results.

**Coding Standards & Best Practices:**

* Choose industry-specific coding standards
* Write as few lines as possible.
* Use appropriate naming conventions.
* Segment blocks of code in the same section into paragraphs.
* Use indentation to marks the beginning and end of control structures. Clearly specify the code between them.
* Don’t use lengthy functions. Ideally, a single function should carry out a single task.
* Use the DRY (Don’t Repeat Yourself) principle. Automate repetitive tasks whenever necessary. The same piece of code should not be repeated in the script.
* Avoid Deep Nesting. Too many nesting levels make code harder to read and follow.
* Capitalize SQL special words and function names to distinguish them from table and column names.
* Avoid long lines. It is easier for humans to read blocks of lines that are horizontally short and vertically long.
* Standardize headers for different modules
* Don’t use a single identifier for multiple purposes
* Leave comments and prioritize documentation
* Try to formalize Exception Handling