

means for said at least one target to read said selected data from said table data structure and to present said selected data in a target format.

10. The apparatus as in claim 1 or claim 9 wherein said configuration data structure further has a required flag, and a modifiable flag.

11. An apparatus for storing data, comprising: means for measuring physical data from a chemical sample;

means for storing a configuration data structure, said configuration data structure having a plurality of data items, a one of said plurality of data items further having a name, a data type, a size, a required flag, and a modifiable flag, and a mapping parameter;

means for editing said configuration data structure; means for arranging in said configuration data structure indicators of a class, a superclass, and a subclass, to indicate a node location of said data item in a hierarchical data structure;

means for arranging ones of said plurality of data items into at least one group, said at least one group defining a table data structure;

means for storing said table data structure; said table data structure having a plurality of table data values, said table data values arranged in a plurality of columns and in a plurality of rows, a one of said table data values identified by a said column and a said row;

means, responsive to a one of said data items of said configuration data structure, for defining a one column of said plurality of columns;

means, responsive to said mapping parameter of said one said data items, for referencing said one column of said table data structure;

means for storing at least one set of data in a predetermined row of said table data structure, said table data structure and said configuration data structure defining a data model, and data corresponding to said model is accommodated in each said row; and, means, responsive to said editing and responsive to said indicators of a class, a superclass, and a subclass, for defining a hierarchical data structure for said data model.

12. An apparatus for storing data, comprising: means for measuring physical data from a chemical sample;

means for storing a configuration data structure, said configuration data structure having a plurality of data items, a one of said plurality of data items further having a name, a data type, a size, a required flag, a modifiable flag, and mapping parameter;

means for editing said configuration data structure; means for arranging in said configuration data structure indicators of a class, a superclass, and a subclass, to indicate a node location of said data item in a hierarchical data structure;

means for arranging ones of said plurality of data items into at least one group, said at least one group defining a table data structure;

means for storing said table data structure to a computer disk;

said table data structure having a plurality of table data values, said table data values arranged in a plurality of columns and in a plurality of rows, a one of said table data values identified by a said column and a said row;

means, responsive to a one of said data items of said configuration data structure, for defining a one column of said plurality of columns;

means, responsive to said mapping parameter of said one said data items, for referencing said one column of said table data structure;

means for storing at least one set of data in a predetermined row of said table data structure, said table data structure and said configuration data structure defining a data model, and data corresponding to said model is accommodated in each said row; and, means, responsive to said editing and responsive to said indicators of a class, a superclass, and a subclass, for defining a hierarchical data structure for said data model.

13. The apparatus as in claim 12 or claim 7 further comprising:

said apparatus is a computer and said computer disk is attached to said computer.

14. The apparatus as in claim 12 or claim 7 further comprising:

said apparatus is a computer and said computer disk is reached by communications by said computer over a computer communications network.

15. An apparatus for storing data, comprising: a computer memory;

means for storing a configuration data structure in said memory, said configuration data structure having a plurality of data items, a one of said plurality of data items further having a name, a data type, a size, and a mapping parameter;

means for arranging ones of said plurality of data items into at least one group, said at least one group defining a table data structure;

said table data structure having a plurality of table data values, said table data values arranged in a plurality of columns and in a plurality of rows, a one of said table data values identified by a said column and a said row;

means, responsive to a one of said data items of said configuration data structure, for defining a one column of said plurality of columns;

means, responsive to said mapping parameter of said one said data items, for referencing said one column of said table data structure;

means for storing at least one set of data, obtained by said measuring means, in a predetermined row of said table data structure, said table data structure and said configuration data structure defining a data model, and data corresponding to said model accommodated in each said row; and,

means for adding rows to said table data structure stored in said computer memory.

16. The apparatus as in claim 15 wherein said computer memory is computer disks.

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