

This is draft of the definition of the table format

Written on 20110502

This draft was written because formalism need to be done to define the data base format. To do that we need to write set of rules that define the table structure. To define this a BNF notation need to be used.

The file that define this grammar is called DataBase.

```
grammar DataBase;

String      : (CharLow
              | CharUpp
              | CharNum
              | CharEsp)+
            ;

CharEsp     : ' ';
SpecialChar : '\0x7c';
EOL         : '\r' '\n' | '\n';
CharLow     : 'a'..'z';
CharUpp     : 'A'..'Z';
CharNum     : '0'..'9';
CharPonc    : ',' | '.' | '?' | ';' | '.' | ':' | '/' |
            '(' | ')'
            ;
ColumnValue : (String | CharNum | SpecialChar)*;

ColumnName : String ;

TableStruct : TableHeader TableBody;

TableHeader : ColumnName ColumnSep TableHeader
            | ColumnName EOL
            ;
TableBody  : ColumnValue ColumnSep TableBody
            | ColumnValue EOL
            ;

ColumnSep : '||'
```

The heck with that notatio, is that it define the structure but not the consistency. 2 columns as header can be defined but 3 or whatever column containing values can be ok too.

By the way Rail road diagrams were defined associated to this grammar:



Illustration 1: TableStruct

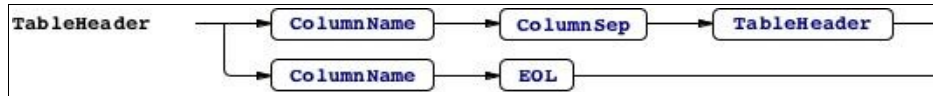


Illustration 2: TableHeader railroad definition

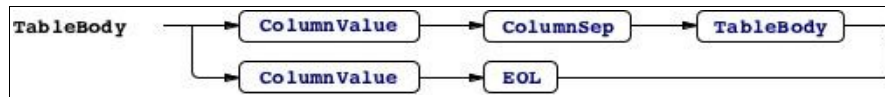


Illustration 3: TableBody railroad definition

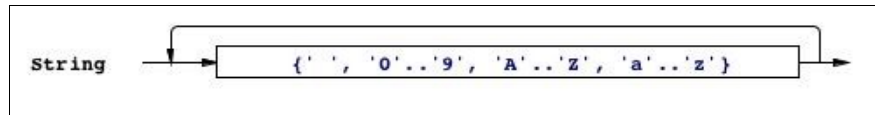


Illustration 4: String railroad definition

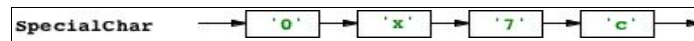


Illustration 5: SpecialChar railroad definition

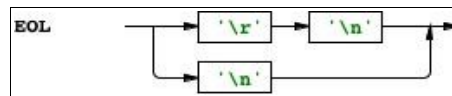


Illustration 6: EOL railroad definition

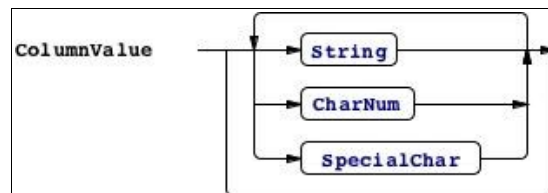


Illustration 7: ColumnValue railroad definition

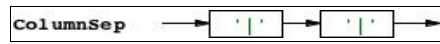
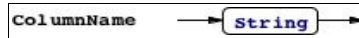
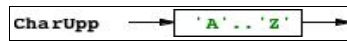


Illustration 8: ColumnSep railroad definition



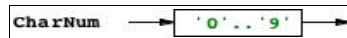
*Illustration 9:
ColumnName railroad definition*



*Illustration 10: CharUpp
railroad definition*



Illustration 11: CharPonc railroad definition



*Illustration 12: CharNum
railroad definition*



*Illustration 13: CharLow
railroad definition*



Illustration 14: CharEsp railroad diagram