

Re: random letter software

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-02/9924.html>

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Date: Sun, 27 Feb 2005 15:41:50 -0500

<mensanator@aol.com> wrote in message
news:1109488596.306325.58380@z14g2000cwz.googlegroups.com...
> *Micheal Artindale wrote:*
> > *I am looking for a software program that would give me random letter*
> *set.*
> >
> > *I would start with 8 letters a-h, and i would like it to create a*
> *list of*
> > *all the possible 6 letter combinations. Each letter can be repeated,*
> *but not*
> > *side by side... eg abahac would be ok, but aabahc would not.*
> >
> > *Is this possible with either corel suite, or MS office?*
>
> *Yes, you can do it in MS-Access or any other SQL database.*
> *But it can become unwieldy if you ask for too large an output.*
> *There are 262,144 possible 6-letter words that can be created*
> *from 8 letters. The non-duplicate adjacent letter restriction*
> *reduces this 134,456 words, so the specific case you asked for*
> *is easily handled. If you wanted to use all 26 letters, the*
> *unrestricted number of words would be 308,915,776 which*
> *would probably not be practical even when restricted.*
>
> >
> > *How do i do it?*
>
> *Create a Table (t) with 1 text field (r) of length 1.*
>
> *Populate the table:*
> *a*
> *b*
> *c*
> *d*
> *e*
> *f*
> *g*
> *h*

```
>
> Create a Query (q) having SQL code:
> SELECT [t].[r] & [t_1].[r] & [t_2].[r] & [t_3].[r] & [t_4].[r] &
> [t_5].[r] AS r6
> FROM t, t AS t_1, t AS t_2, t AS t_3, t AS t_4, t AS t_5
> WHERE (((t_1.r)<>[t].[r]) AND ((t_2.r)<>[t_1].[r]) AND
> ((t_3.r)<>[t_2].[r]) AND ((t_4.r)<>[t_3].[r]) AND
> ((t_5.r)<>[t_4].[r]));
>
>
> Output of q:
>
> bababa
> cababa
> dababa
> eababa
> fababa
> gababa
> .
> .
> .
> chghgh
> dhghgh
> ehghgh
> fhghgh
> ghghgh
> <134456 records>
```

I got it to work....but its tooooo huge.

I would like to refine it to 50,000 or less.

So, 2 of my ideas are, each letter combination would not repeat itself. Each letter can only repeat once.

So a few would not exist, like ababab, or abcabc, but abcbac could exist.

What would be the code? and, could you explain what the parts cover, so that if i would like to change it, i know what each will do.

Thanks,

Micheal