**Answers to Questions**

Copied from the text files generated:

***3- Spanned wordlist results:***

In first 100 word list:

There are 22 associations with at least one family member.

There are 4 associations with at least one Disease.

There are 22 associations with at least one family member and NO disease.

There are 0 associations both family member and disease.

There are 74 associations with neither family nor disease.

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In first 200 word list:

There are 51 associations with at least one family member.

There are 13 associations with at least one Disease.

There are 48 associations with at least one family member and NO disease.

There are 3 associations both family member and disease.

There are 139 associations with neither family nor disease.

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The total associations studied in 3 spanned sets are 438 : The pattern :

.There are 160 associations with at least one family member.

There are 35 associations with at least one Disease.

There are 141 associations with at least one family member and NO disease.

There are 19 associations both family member and disease.

There are 262 associations with neither family nor disease.

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***5- Spanned wordlist results:***

In first 100 word list:

There are 33 associations with at least one family member.

There are 9 associations with at least one Disease.

There are 31 associations with at least one family member and NO disease.

There are 2 associations both family member and disease.

There are 60 associations with neither family nor disease.

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In first 200 word list:

There are 59 associations with at least one family member.

There are 13 associations with at least one Disease.

There are 57 associations with at least one family member and NO disease.

There are 2 associations both family member and disease.

There are 130 associations with neither family nor disease.

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In first 500 word list:

There are 171 associations with at least one family member.

There are 44 associations with at least one Disease.

There are 154 associations with at least one family member and NO disease.

There are 17 associations both family member and disease.

There are 302 associations with neither family nor disease.

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The total associations studied in 5 spanned sets are 871 : The pattern :

.There are 370 associations with at least one family member.

There are 88 associations with at least one Disease.

There are 327 associations with at least one family member and NO disease.

There are 43 associations both family member and disease.

There are 456 associations with neither family nor disease.

***10- Spanned wordlist results:***

In first 100 word list:

There are 29 associations with at least one family member.

There are 6 associations with at least one Disease.

There are 28 associations with at least one family member and NO disease.

There are 1 associations both family member and disease.

There are 66 associations with neither family nor disease.

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In first 200 word list:

There are 53 associations with at least one family member.

There are 12 associations with at least one Disease.

There are 51 associations with at least one family member and NO disease.

There are 2 associations both family member and disease.

There are 137 associations with neither family nor disease.

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In first 500 word list:

There are 128 associations with at least one family member.

There are 31 associations with at least one Disease.

There are 120 associations with at least one family member and NO disease.

There are 8 associations both family member and disease.

There are 349 associations with neither family nor disease.

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In first 1000 word list:

There are 286 associations with at least one family member.

There are 69 associations with at least one Disease.

There are 259 associations with at least one family member and NO disease.

There are 27 associations both family member and disease.

There are 672 associations with neither family nor disease.

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The total associations studied in 10 spanned sets are 2283 : The pattern :

.There are 908 associations with at least one family member.

There are 206 associations with at least one Disease.

There are 807 associations with at least one family member and NO disease.

There are 101 associations both family member and disease.

There are 1270 associations with neither family nor disease.

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