

[illegible]

(b) To show that you created IG\_READY successfully, you produce a report of the following format in which the value under each gene name is the count of 1's in IG\_READY. That is, if 403 is entered for APC, that means 403 subjects out of 627 have APC mutation. Note that during Part II and any subsequent, you will be using this count feature again and again, and you could develop a small module that does count 1's for a given column.

APC	TP53	KRAS	PIK3CA	PTEN	ATM	MUC4	SMAD4	SYNE1	FBXW7	Status

**Choice of Programming Language:** You are free to choose any programming language (Java, C++, php, etc.) to do the exercise as long as you can embed SQL statements.

**Report Format:** 1. Show your source code. 2. Show your answer for (b).

The penalty for a late report is **20% off per day**. **Submission cut-off** is 4/6/2017.