Solution to Exercise 3: Aggregating data and saving the summary data

Key point(s);

a) Aggregate is a powerful tool to summarize the analogue to a tabular output in a REC file and to make calculations on the vertical for each stratum thus obtained.

Task:

o The B_EX03_WORKLOAD.REC has been edited to contain only three laboratories (out of the original 30) and only the year 2002. Nonsensical results (e.g., first examination not recorded, followed by a valid result) have been excluded. Create a program B_EX03.PGM to provide the mean number of smears examined per registration day in each of the three laboratories.

The result:

	(SUM) smears								
laboratory	Obs.	Sum	Mean	Variance	Std Dev	(9	5% CI	mean)	Std Err
BY_A				1069.10					
ME_L				53.34					
ML_L	241	6328.0	26.26	244.65	15.64		24.27	28.24	1.01

The program B_EX03.PGM is very simple in the end (but admittedly it took us a while to get to this level of efficiency):

cls close logclose

read "b_ex03_workload.rec"

- * Determine the number of smears for each examinee gen i smears=1 if result2<>9 then smears=2 if result3<>9 then smears=3
- * Sum up the number of smears done on each
- * working day in each laboratory aggregate regdate laboratory /sum=smears /close
- * Calculate the average number of smears done
- * each working day in each laboratory cls

means sumsmears /by=laboratory