```
LIBNAME quiz1 "/home/u64004207/EPI5143 - Large Databases";
/* Step 2: Create a permanent library */
PROC DATASETS LIB=quiz1;
RUN;
QUIT;
/* Step 3: Use PROC CONTENTS to examine dataset */
PROC CONTENTS DATA=quiz1.quiz1_data;
RUN;
/* Step 4: Use PROC FREQ to analyze diabetes variable */
PROC FREQ DATA=quiz1.quiz1_data;
 TABLES diabetes;
RUN;
/* Step 5: Use PROC UNIVARIATE to analyze X1 */
PROC UNIVARIATE DATA=quiz1.quiz1_data;
 VAR X1;
 HISTOGRAM X1 / normal;
RUN;
/* Step 6: Create a temporary copy of the dataset */
DATA work.quiz1;
 SET quiz1.quiz1_data;
RUN;
/* Step 7: Create mean_V1 and mean_V2 */
DATA work.quiz1;
 SET work.quiz1;
 mean V1 = (X1 + X2 + X3) / 3;
 mean_V2 = MEAN(X1, X2, X3);
RUN;
/* Step 8: Calculate wait_time */
DATA work.quiz1;
 SET work.quiz1;
 wait_time = Surgery_dt - Consult_dt;
RUN;
/* Step 9: Create X1_high variable */
PROC MEANS DATA=work.quiz1 MEAN;
 VAR X1;
 OUTPUT OUT=mean_X1_data MEAN=X1_mean;
```

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RUN;
DATA work.quiz1;
 SET work.quiz1;
 IF _N_ = 1 THEN SET mean_X1_data;
 X1_{high} = (X1 >= X1_{mean});
RUN;
/* Step 10a: Use PROC UNIVARIATE to analyze mean_V1, mean_V2, and wait_time */
PROC UNIVARIATE DATA=work.quiz1;
 VAR mean_V1 mean_V2 wait_time;
 OUTPUT OUT=univ_output MEAN=mean_V1_mean mean_V2_mean wait_time_mean
   MEDIAN=wait_time_median MIN=wait_time_min MAX=wait_time_max;
RUN;
/* Step 10b: Use PROC FREQ for 2x2 table of X1_high vs. diabetes */
PROC FREQ DATA=work.quiz1;
 TABLES X1_high * diabetes / CHISQ NOROW NOCOL NOPERCENT;
RUN;
```