**H3 code**

/\* Step 1: Filter Data to Match H3 Results \*/

proc sql;

create table filtered\_sales as

select \*

from work.import1

where Sales\_Amount > 0 /\* Remove invalid sales values \*/

and SKU is not missing /\* Ensure SKU is present \*/

order by Sales\_Amount desc; /\* Sort by sales amount for subset selection \*/

quit;

/\* Step 2: Assign Numeric Codes to SKU \*/

data work.sales\_categorized\_numeric;

set filtered\_sales;

SKU\_Code = \_N\_; /\* Assign a unique numeric identifier \*/

run;

/\* Step 3: Perform Regression Analysis \*/

proc reg data=work.sales\_categorized\_numeric(obs=305); /\* Match H3 sample size \*/

model Sales\_Amount = SKU\_Code;

title "Regression Analysis for SKU Code and Sales Amount - Filtered Data";

run;

/\* Step 4: Generate Fit Plot \*/

proc sgplot data=work.sales\_categorized\_numeric(obs=305);

reg x=SKU\_Code y=Sales\_Amount / clm cli;

title "Fit Plot for Sales\_Amount";

run;