Select

distinct(par\_code) as "Part Code",

(Select SUM(a6.TRL\_QTY)

From EAMPROD.R5translines a6 where a6.trl\_object\_org = 'CAM' and (a6.trl\_type = 'I' or a6.trl\_type = 'RI') and a6.trl\_date like '%-17' and par\_code =a6.trl\_part and par\_org = a6.trl\_part\_org and a6.trl\_qty > 0

group by a6.TRL\_part) as "2017D",

(Select SUM(a7.TRL\_QTY)

From EAMPROD.R5translines a7 where a7.trl\_object\_org = 'CAM' and (a7.trl\_type = 'I' or a7.trl\_type = 'RI') and a7.trl\_date like '%-18' and par\_code =a7.trl\_part and par\_org = a7.trl\_part\_org and a7.trl\_qty > 0

group by a7.TRL\_part) as "2018D",

coalesce((Select round(sum(a8.TRL\_QTY)\*12/21,3)

From EAMPROD.R5translines a8 where a8.trl\_object\_org = 'CAM' and (a8.trl\_type = 'I' or a8.trl\_type = 'RI') and (a8.trl\_date like '%-18' or a8.trl\_date like '%-17') and par\_code =a8.trl\_part and par\_org = a8.trl\_part\_org and a8.trl\_qty > 0

group by a8.TRL\_part), 0) as "Average Demand",

/\*Standard deviation is used in the calculation of ROP, although not needed to be shown in the table, this calculation is listed below for easy editing then pasting into the ROP calculation.

coalesce((round(sqrt(1/2\*((power((select sum(a9.TRL\_QTY)

From EAMPROD.R5translines a9 where a9.trl\_object\_org = 'CAM' and (a9.trl\_type = 'I' or a9.trl\_type = 'RI') and (a9.trl\_date like '%-18') and par\_code =a9.trl\_part and par\_org = a9.trl\_part\_org and a9.trl\_qty > 0

group by a9.TRL\_part) - (coalesce((Select round(sum(a8.TRL\_QTY)\*12/21,3)

From EAMPROD.R5translines a8 where a8.trl\_object\_org = 'CAM' and (a8.trl\_type = 'I' or a8.trl\_type = 'RI') and (a8.trl\_date like '%-18' or a8.trl\_date like '%-17') and par\_code =a8.trl\_part and par\_org = a8.trl\_part\_org and a8.trl\_qty > 0

group by a8.TRL\_part), 0)),2)) + (power((select sum(a11.TRL\_QTY)

From EAMPROD.R5translines a11 where a11.trl\_object\_org = 'CAM' and (a11.trl\_type = 'I' or a11.trl\_type = 'RI') and (a11.trl\_date like '%-17') and par\_code =a11.trl\_part and par\_org = a11.trl\_part\_org and a11.trl\_qty > 0

group by a11.TRL\_part) - (coalesce((Select round(sum(a8.TRL\_QTY)\*12/21,3)

From EAMPROD.R5translines a8 where a8.trl\_object\_org = 'CAM' and (a8.trl\_type = 'I' or a8.trl\_type = 'RI') and (a8.trl\_date like '%-18' or a8.trl\_date like '%-17') and par\_code =a8.trl\_part and par\_org = a8.trl\_part\_org and a8.trl\_qty > 0

group by a8.TRL\_part), 0)),2)))), 3)), 0) as "STDDEV Demand",\*/

(coalesce(round(cat\_gross, 2), 0)) as "Price",

coalesce(round(cat\_leadtime/365, 3),0) as "Lead Time Years",

/\* ROP, reorder point, calculated by: (average demand X lead time) + (z-value for customer service level X standard deviation demand X square root of lead time) \*/

ceil((coalesce((Select round(sum(a8.TRL\_QTY)\*12/21,3)

From EAMPROD.R5translines a8 where a8.trl\_object\_org = 'CAM' and (a8.trl\_type = 'I' or a8.trl\_type = 'RI') and (a8.trl\_date like '%-18' or a8.trl\_date like '%-17') and par\_code =a8.trl\_part and par\_org = a8.trl\_part\_org and a8.trl\_qty > 0

group by a8.TRL\_part), 0)\*(coalesce(round(cat\_leadtime/365, 3), 0))) + (1.64485362695147\*(coalesce((round(sqrt(1/2\*((power((select sum(a9.TRL\_QTY)

From EAMPROD.R5translines a9 where a9.trl\_object\_org = 'CAM' and (a9.trl\_type = 'I' or a9.trl\_type = 'RI') and (a9.trl\_date like '%-18') and par\_code =a9.trl\_part and par\_org = a9.trl\_part\_org and a9.trl\_qty > 0

group by a9.TRL\_part) - (coalesce((Select round(sum(a8.TRL\_QTY)\*12/21,3)

From EAMPROD.R5translines a8 where a8.trl\_object\_org = 'CAM' and (a8.trl\_type = 'I' or a8.trl\_type = 'RI') and (a8.trl\_date like '%-18' or a8.trl\_date like '%-17') and par\_code =a8.trl\_part and par\_org = a8.trl\_part\_org and a8.trl\_qty > 0

group by a8.TRL\_part), 0)),2)) + (power((select sum(a11.TRL\_QTY)

From EAMPROD.R5translines a11 where a11.trl\_object\_org = 'CAM' and (a11.trl\_type = 'I' or a11.trl\_type = 'RI') and (a11.trl\_date like '%-17') and par\_code =a11.trl\_part and par\_org = a11.trl\_part\_org and a11.trl\_qty > 0

group by a11.TRL\_part) - (coalesce((Select round(sum(a8.TRL\_QTY)\*12/21,3)

From EAMPROD.R5translines a8 where a8.trl\_object\_org = 'CAM' and (a8.trl\_type = 'I' or a8.trl\_type = 'RI') and (a8.trl\_date like '%-18' or a8.trl\_date like '%-17') and par\_code =a8.trl\_part and par\_org = a8.trl\_part\_org and a8.trl\_qty > 0

group by a8.TRL\_part), 0)),2)))), 3)), 0))\*(sqrt(coalesce(round(cat\_leadtime/365, 3),0))))) as "Reorder Level",

/\* EOQ, Economic order quantity, calculated by: Square root((2 X fixed order cost X average demand) / (holding cost as percentage of product cost X product cost) \*/

ceil(sqrt((2\*10\*(coalesce((Select round(sum(a8.TRL\_QTY)\*12/21,3)

From EAMPROD.R5translines a8 where a8.trl\_object\_org = 'CAM' and (a8.trl\_type = 'I' or a8.trl\_type = 'RI') and (a8.trl\_date like '%-18' or a8.trl\_date like '%-17') and par\_code =a8.trl\_part and par\_org = a8.trl\_part\_org and a8.trl\_qty > 0

group by a8.TRL\_part), 0)))/(.0649\*(nullif(round(cat\_gross, 2), 0))))) as "EOQ"

From EAMPROD.R5PARTS

full join eamprod.r5catalogue on par\_code = cat\_part and cat\_part\_org = par\_org and par\_prefsup = cat\_supplier

full join eamprod.R5stock on par\_code = sto\_part and par\_org = sto\_part\_org and par\_prefsup = sto\_prefsup

where par\_org = 'CAM' and par\_notused like '-' and par\_preventreorders like '-'