

Case Study 3: Run Manufacturing Company with ERPSIM

Table 3: Tasks for running manufacturing company (Introduction) in Quarter 3

Simulation Role	Function	Transaction Code
CEO (Team Leader)	Watch financial statement	F.01 (page 2)
	Check price market report	ZMarket (page 3)
	Check summary sales report	ZVC2 (page 4)
	Check sales order report	ZVA05 (page 4)
	Check inventory report	ZMB52 (page 5)
Marketing & Sales Manager	Change product sales prices	VK32 (page 6)
	Make marketing expense planning	ZADS (page 7)
	Check price market report	ZMarket (page 3)
	Check summary sales report	ZVC2 (page 4)
	Check sales order data	ZVA05 (page 4)
Production & Planning Manager	Forecast-create planned indep. Req.	MD61 (page 8)
	MRP run	MD01 (page 9)
	Collective Convert planned order to production order	CO41 (page 12)
	Check production schedule	ZCOOIS (page 14)
	Review MRP results	MD05 (page 15)
MM Manager	Convert purchase requisitions to purchase orders (after running MRP)	ME59N (page 11)
	Track Purchase order report	ZME2N (page 12)
	Check inventory report	ZMB52 (page 5)
	Check individual/Collective stock level	MD04 (page 17)

Note:

If your team has only three members, then your team may combine the roles for CEO and Production & Planning Manager together.

1. Watch Financial Statement

(Transaction Code F.01)

- Enter your company code: \$\$
- Select SIM1 for “Financial Statement Version”
- Select ALV Tree Control



(ENTER)

The screenshot displays the SAP Financial Statements (F.01) transaction screen. The interface includes a menu bar at the top with options like Program, Edit, Goto, System, and Help. Below the menu, there are several input fields and buttons for selection criteria. The 'GL account selection' section includes fields for Chart of accounts, GL account, and Company code. The 'Selection using search help' section has a search help ID and a search string field. The 'Transaction Figures Selection' section includes fields for Business area, Currency type, and Ledger. The 'Further selection' section includes tabs for Further selection, Special evaluations, and Output control. The 'Financial statement version' section includes fields for Financial statement version (SIM1), Language (EN), Reporting year (2010), Reporting periods (1 to 16), Comparison year (2009), Comparison periods (1 to 16), and Plan version (Ledger 00 only). The 'List output' section includes radio buttons for Classical list, ALV grid control, and ALV Tree Control (selected). The bottom of the screen shows a taskbar with various application windows open, including SAP Logon, Microsoft Office, and SAPgui - Windows L.



(EXECUTE)

Financial Statements

Financial Statements - ERPsim

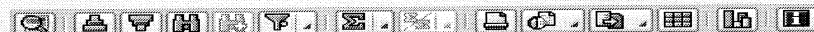
OL Ledger
10 Currency type Company code currency
EUR Amounts in European Euro
2012.01 - 2012.16 Reporting periods
2011.01 - 2011.16 Comparison periods



F.S. item/account	Tot.rpt.pr	tot.cmp.pr	Abs. diff.
Balance Sheet	0.00	0.00	0.00
Assets	20,791,250.00	0.00	20,791,250.00
Current assets	2,791,250.00	0.00	2,791,250.00
113300 Bank Cash Account	9,700.00	0.00	9,700.00
300000 Raw materials	1,111,550.00	0.00	1,111,550.00
792000 Finished goods	1,670,000.00	0.00	1,670,000.00
Long-term assets	18,000,000.00	0.00	18,000,000.00
001000 Land	2,000,000.00	0.00	2,000,000.00
002000 Buildings	10,000,000.00	0.00	10,000,000.00
011000 Machinery and equipment	6,000,000.00	0.00	6,000,000.00
Liabilities and Owners' Equity	20,791,250.00	0.00	20,791,250.00
Liabilities	12,000,000.00	0.00	12,000,000.00
Current liabilities	12,000,000.00	0.00	12,000,000.00
Equity	8,791,250.00	0.00	8,791,250.00
Shareholders Equity	8,000,000.00	0.00	8,000,000.00
070000 Common stock	8,000,000.00	0.00	8,000,000.00
Retained Earnings	791,250.00	0.00	791,250.00
Net Income	791,250.00	0.00	791,250.00
Income Statement	791,250.00	0.00	791,250.00
Cost of Goods Sold	791,250.00	0.00	791,250.00
Cost of Goods Manufactured	878,750.00	0.00	878,750.00
400000 Consumption Raw Materials	878,750.00	0.00	878,750.00
Ending Inventory	1,670,000.00	0.00	1,670,000.00
895000 Total Finished Products Prod	1,670,000.00	0.00	1,670,000.00
Net Income(Loss)	791,250.00	0.00	791,250.00
Calculated profit	791,250.00	0.00	791,250.00

2. Check Price Market Report (for all company codes) (Transaction Code ZMarket)

Market Report



Market Report: Quarter 1 Day 08

Qtr/Day	Material Description	Area	Value	Qty	Price
01/05	1kg Blueberry Muesli	NO	6,223	1,146	5.43
		SO	15,639	2,993	5.23
		WE	3,019	556	5.43
	1kg Mixed Fruit Muesli	NO	20,556	4,179	4.92
		SO	34,172	7,163	4.77
		WE	23,129	4,698	4.92
	1kg Nut Muesli	NO	34,733	7,947	4.37
		SO	48,398	11,086	4.37
		WE	37,515	8,602	4.36
	1kg Original Muesli	NO	21,107	5,123	4.12
		SO	9,278	2,252	4.12
		WE	8,413	2,042	4.12
	1kg Raisin Muesli	NO	30,911	7,599	4.07
		SO	52,127	12,970	4.02
		WE	24,365	6,034	4.04
	1kg Strawberry Muesli	SO	32,898	6,116	5.38
		WE	12,017	2,269	5.30

3. Check Summary Sales Report (for your company code)

(Transaction Code ZVC2)

Summary Sales Order Report

Summary Sales Order Report: Quarter 1 Day 07

Qtr	Day	Material Description	Orders	Qty	Value
1	07	1kg Nut Muesli	2	1,274	5,720.26
		1kg Raisin Muesli	7	5,472	22,465.99
		1kg Original Muesli	1	669	2,756.28
		1kg Blueberry Muesli	5	2,976	16,159.69
		1kg Strawberry Muesli	1	496	2,639.98
06		1kg Raisin Muesli	6	5,609	22,963.03
		1kg Mixed Fruit Muesli	1	1,368	6,499.00
		1kg Blueberry Muesli	5	4,146	21,904.53
		1kg Nut Muesli	4	2,650	11,899.50
		1kg Original Muesli	3	3,760	14,735.95
		1kg Strawberry Muesli	2	1,119	5,076.17
05		1kg Mixed Fruit Muesli	4	4,011	19,373.25
		1kg Original Muesli	1	701	2,888.12
		1kg Blueberry Muesli	2	1,800	9,459.50
		1kg Raisin Muesli	4	3,972	16,142.49
		1kg Nut Muesli	9	7,676	33,773.74
		1kg Strawberry Muesli	1	640	3,475.20
04		1kg Original Muesli	4	2,892	11,915.04
		1kg Mixed Fruit Muesli	2	1,869	9,105.50
		1kg Blueberry Muesli	2	1,749	9,198.82
		1kg Strawberry Muesli	5	3,612	19,309.66
		1kg Raisin Muesli	2	1,661	6,926.37
		1kg Nut Muesli	6	6,137	26,532.63
03		1kg Original Muesli	2	1,504	6,196.48
		1kg Mixed Fruit Muesli	2	2,060	9,939.25
		1kg Nut Muesli	8	7,828	34,084.47
		1kg Strawberry Muesli	1	584	3,171.12
		1kg Raisin Muesli	8	7,152	29,083.34
02		1kg Raisin Muesli	6	7,088	28,326.46
		1kg Nut Muesli	4	3,419	15,000.81
		1kg Mixed Fruit Muesli	6	4,947	24,115.25
		1kg Original Muesli	4	3,034	12,500.08
		1kg Blueberry Muesli	1	637	3,459.91
01		1kg Nut Muesli	3	2,575	11,254.25
		1kg Strawberry Muesli	5	3,549	18,959.07
		1kg Raisin Muesli	8	6,730	26,924.35
		1kg Blueberry Muesli	1	509	2,763.87
		1kg Original Muesli	2	1,286	5,298.32

4. Check Sales order Report (for your company code)

(Transaction Code ZVA05)

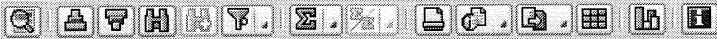
Detailed Sales Order Report

Detailed Sales Order Report: Quarter 1 Day 05

Qtr	Day	DCH	Area	Material Description	Sold-to pt	Price	Qty	Value	A/R Qtr	A/R Day
1	05	10	NO	1kg Nut Muesli	80105	4.24	1,351	5,728.24	1	25
			SO	1kg Blueberry Muesli	80104	5.18	1,258	6,516.44	1	25
				1kg Nut Muesli	80103	4.24	1,415	5,999.60	1	25
				1kg Mixed Fruit Muesli	80100	4.75	1,456	6,916.00	1	25
				1kg Mixed Fruit Muesli	80107	4.75	1,271	6,037.25	1	25
			WE	1kg Raisin Muesli	80111	3.92	1,683	6,597.36	1	25
	12	NO		1kg Nut Muesli	80135	4.49	658	2,954.42	1	20
			SO	1kg Nut Muesli	80130	4.49	723	3,246.27	1	18
				1kg Raisin Muesli	80122	4.17	697	2,906.49	1	20
				1kg Raisin Muesli	80126	4.17	772	3,219.24	1	17
				1kg Nut Muesli	80115	4.49	714	3,205.86	1	20
				1kg Strawberry Muesli	80123	5.43	640	3,475.20	1	20
				1kg Nut Muesli	80117	4.49	753	3,380.97	1	19
				1kg Blueberry Muesli	80117	5.43	542	2,943.06	1	18
			WE	1kg Raisin Muesli	80148	4.17	820	3,419.40	1	16
				1kg Mixed Fruit Muesli	80159	5.00	662	3,310.00	1	19
				1kg Nut Muesli	80154	4.49	692	3,107.08	1	18
				1kg Original Muesli	80155	4.12	701	2,888.12	1	18
				1kg Nut Muesli	80149	4.49	596	2,676.04	1	20
				1kg Nut Muesli	80150	4.49	774	3,475.26	1	16
				1kg Mixed Fruit Muesli	80161	5.00	622	3,110.00	1	16
04	10	NO		1kg Nut Muesli	80108	4.24	1,224	5,189.76	1	24
				1kg Mixed Fruit Muesli	80108	4.75	1,358	6,450.50	1	24
			SO	1kg Nut Muesli	80101	4.24	1,366	5,791.84	1	24
				1kg Nut Muesli	80100	4.24	1,500	6,360.00	1	24
				1kg Blueberry Muesli	80107	5.18	1,193	6,179.74	1	24
			WE	1kg Strawberry Muesli	80111	5.18	1,214	6,288.52	1	24
	12	NO		1kg Raisin Muesli	80131	4.17	831	3,465.27	1	19
				1kg Original Muesli	80141	4.12	670	2,760.40	1	19
				1kg Original Muesli	80165	4.12	841	3,464.92	1	15
				1kg Mixed Fruit Muesli	80145	5.00	531	2,655.00	1	18
			SO	1kg Strawberry Muesli	80119	5.43	562	3,051.66	1	15
				1kg Raisin Muesli	80118	4.17	830	3,461.10	1	18
				1kg Strawberry Muesli	80119	5.43	611	3,317.73	1	18
				1kg Nut Muesli	80128	4.49	719	3,228.31	1	17
				1kg Strawberry Muesli	80140	5.43	608	3,301.44	1	16
				1kg Original Muesli	80117	4.12	748	3,081.76	1	16
				1kg Strawberry Muesli	80138	5.43	617	3,350.31	1	19

(Transaction Code: ZMB52)

Finished Goods:	600,000 /	Unlimited
Raw Materials:	680,000 /	Unlimited
Packaging:	1,400,000 /	Unlimited

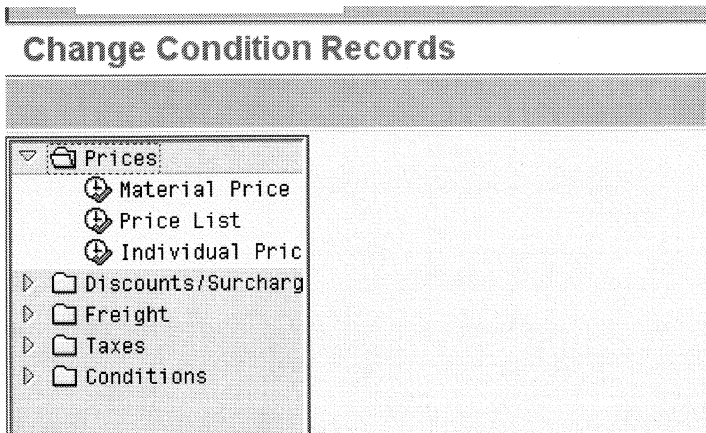


SLoc	Material	Material Description	Stock	Unit
02	ZZ-F01	1kg Nut Muesli	100,000	ST
	ZZ-F02	1kg Blueberry Muesli	100,000	ST
	ZZ-F03	1kg Strawberry Muesli	100,000	ST
	ZZ-F04	1kg Raisin Muesli	100,000	ST
	ZZ-F05	1kg Original Muesli	100,000	ST
	ZZ-F06	1kg Mixed Fruit Muesli	100,000	ST
88	ZZ-P01	Large Box (1kg)	700,000	ST
	ZZ-P02	Large Bag (1kg)	700,000	ST
	ZZ-P03	Small Box (500g)	0	ST
	ZZ-P04	Small Bag (500g)	0	ST
	ZZ-R01	Nuts	30,000	KG
	ZZ-R02	Blueberries	25,000	KG
	ZZ-R03	Strawberries	25,000	KG
	ZZ-R04	Raisins	30,000	KG
	ZZ-R05	Wheat	285,000	KG
	ZZ-R06	Oats	285,000	KG

6. Change product Selling Price

(Transaction Code VK32)

- Select Price -> Price List and click on it



- Enter your company code: \$\$
- Enter distribution channel: 10 - 12
- Condition Type: PR00
- Document Currency: EUR



(ENTER)



Click (EXECUTE)

Price List with Release Status			
Sales Organization	ZZ	to	
Distribution Channel	10	to	12
Price List	01	to	
Condition Type	PR00	to	
Document Currency	EUR	to	
Material		to	
Release status		to	
Valid On	2012-10-25		
Max. hits per table	500		

Change your prices for your products.

Change Condition Records: Overview

Prices

- Material Price
- Price List
- Individual Price

Discounts/Surcharges

Freight

Taxes

Conditions

Sales Organization ZZ Sales Org. Z

Price List 01 Wholesale

All Fields

S.	Variable key	Amount	Unit	per	UoM	CCon...	Num...	B...	P.	Valid F
PR00 10	EUR ZZ-F01	1kg	4.24	EUR	1ST					2009-
PR00 10	EUR ZZ-F02	1kg	5.18	EUR	1ST					2009-
PR00 10	EUR ZZ-F03	1kg	5.18	EUR	1ST					2009-
PR00 10	EUR ZZ-F04	1kg	3.92	EUR	1ST					2009-
PR00 10	EUR ZZ-F05	1kg	3.87	EUR	1ST					2009-
PR00 10	EUR ZZ-F06	1kg	4.75	EUR	1ST					2009-
PR00 12	EUR ZZ-F01	1kg	4.49	EUR	1ST					2009-
PR00 12	EUR ZZ-F02	1kg	5.43	EUR	1ST					2009-
PR00 12	EUR ZZ-F03	1kg	5.43	EUR	1ST					2009-
PR00 12	EUR ZZ-F04	1kg	4.17	EUR	1ST					2009-
PR00 12	EUR ZZ-F05	1kg	4.12	EUR	1ST					2009-
PR00 12	EUR ZZ-F06	1kg	5.00	EUR	1ST					2009-



(ENTER)



(SAVE)

7. Market Expense Planning

(Transaction Code: ZADS)

- Enter your amount in your selected areas (total three) and products (total six)
- (ENTER)

Marketing Expense Planning

Marketing Plan (Daily Amounts)

Material	Description	North	South	West
ZZ-F01	1kg Nut Muesli	20		
ZZ-F02	1kg Blueberry Muesli			
ZZ-F03	1kg Strawberry Muesli		15	
ZZ-F04	1kg Raisin Muesli			
ZZ-F05	1kg Original Muesli			
ZZ-F06	1kg Mixed Fruit Muesli			10

Clear

Daily Total: 0



(ENTER)



(SAVE)

8. Create Planned Independent Requirement

(Transaction Code: MD61)

Enter the following information:

- Product group: \$\$-F
- Plant: \$\$
- Version: 00
- Planned Period: M (month)

Create Planned Independent Requirements: Initial Screen

User Parameters

Planned independent requirements for

☐ Material
☒ Product group ZZ-F
☐ Reqmts Plan ZZ-F

Plant ZZ

Define version

Version 00 REQUIREMENTS PLAN

Planning horizon

From 2012-10-25 To 2013-11-29 Planning period M Month

➤  (ENTER), Enter your plan for your products in **next month**.

Plnd Ind. Reqmts Create: Planning Table

Product group ZZ-F Product Group Z - Finished Products

Planning start 2012-10-01 Planning End 2013-11-29

Table Items Sched. lines

Material	Plant	V	A	BU	M 10-2012	M 11-2012	M 12-2012	M 01-2013	M 02-2013	M 03-2013	M 04-2013
ZZ-F01	ZZ	00	✓	ST		120,000					
ZZ-F02	ZZ	00	✓	ST		100,000					
ZZ-F03	ZZ	00	✓	ST		100,000					
ZZ-F04	ZZ	00	✓	ST		100,000					
ZZ-F05	ZZ	00	✓	ST		110,000					
ZZ-F06	ZZ	00	✓	ST		100,000					

 (ENTER)

 (SAVE)

9. Run MRP

Allow the system to plan the availability and requirements for your products.
(Transaction Code MD01)

Enter the following information:

- Enter plant: \$\$
- Processing key: NEUPL
- Create pur. req.: 1
- Deliv. schedule: 3
- Create MRP list: 1
- Planning mode: 3
- Scheduling: 1

Check "Display material list".

MRP Run

Scope of planning: ☐ ☒

Plant: 22

MRP control parameters:

Processing key	NEUPL	Regenerative Planning
Create purchase req.	1	Purchase requisitions
Schedule lines	3	Schedule lines
Create MRP list	1	MRP list
Planning mode	3	Delete and recreate planning data
Scheduling	1	Determination of Basic Dates for Planned
Planning date	2012-10-25	

Process control parameters:

☒ Parallel processing

☒ Display material list

User exit: select materials for planning

User exit key:

User exit parameter:



(ENTER)

- A warning message appears - please check input parameters



(ENTER) again to confirm and bypass the warning message

MRP Run

Scope of planning
Plant 22 Factory Z

MRP control parameters

Processing key	MRUPL	Regenerative Planning
Create purchase req.	1	Purchase requisitions
Schedule lines	3	Schedule lines
Create MRP list	1	MRP list
Planning mode	3	Delete and recreate planning data
Scheduling	1	Determination of Basic Dates for Planned
Planning date	2012-10-25	

Process control parameters

☐ Parallel processing

☐ Split display

User exit: select materials for planning

User exit key

User exit parameter

Information

To start the planning run, press enter

Continue (Enter)

MRP Run

Statistics	
Materials planned	29
Materials with New Exceptions	14
Materials with Termination MRP List	

Parameters	
Scope of Planning	22
Plant	MRUPL
Processing Key	1
Create Purchase Requisition	3
SA Schedule line	1
Create MRP List	3
Planning Mode	1
Scheduling	1
MRP Date	2012-10-25

Database Statistics	
Planned orders created	12
Purchase requisitions created	8
Dependent requirements created	64

Runtime Statistics	
Start of Planning Run	18:13:14
End of Planning Run	18:13:15
Runtime	00:00:01

Ranking List of Materials with Highest CPU Times (in ms)						
Material	Plant	Read	Net Calc.	BOM	IdTimeSched	Update
22-F01	22					
231	135	8	54	0	27	
22-F01	131	6	37	0	0	67
22-B01	22					
64	46	1	0	0	13	
22-F06	22					
40	5	1	19	0	13	
22-F02	33	5	1	10	0	14



(EXIT)

10. Convert Purchase Requisition to Purchase Orders

(Transaction Code: ME59N)

The transaction ME59N automatically creates consolidated purchase orders for each vendor. In other words, if more than one requisition was assigned to the same vendor, only one purchase order with multiple items will be created.

Enter the following information:

➤ Purchasing organization: \$\$

➤ Plant: \$\$

Click  (EXECUTE)

Automatic Creation of Purchase Orders from Requisitions

Purchasing Group		to		
Purch. Organization	XX	to		
Fixed Vendor		to		
Contract		to		
Plant	XX	to		
Supplying Plant		to		

A report is displayed confirming the conversion of the purchase requisition in consolidated PO.

Automatic Creation of Purchase Orders from Requisitions

PO	OTyp	POrg	PGr	Agreement	Item	Purch.Req.	Item D.	S.	Message Text
Vendor V01 FoodBroker Inc.									
4500000012	NB	ZZ	100						 Purchase order successfully created
					10000002				 Requisition successfully converted
					10000003				 Requisition successfully converted
					10000004				 Requisition successfully converted
					10000005				 Requisition successfully converted
					10000006				 Requisition successfully converted
					10000007				 Requisition successfully converted
Vendor V02 Continental Printing Co.									
4500000013	NB	ZZ	200						 Purchase order successfully created
					10000000				 Requisition successfully converted
					10000001				 Requisition successfully converted

Record the PO numbers: _____

11. Track Purchase Order Report

(Transaction Code: ZME2N)

System Help

Purchase Order Tracking

Purchase Order Tracking: Quarter 4 Day 01

Order	Material Description	Quantity	Price	Delivered	Goods	Payment
4500000014	Rasins	10,000	1.07	X	3/30	4/15
	Wheat	20,000	0.99	X		
	Oats	20,000	0.92	X		
4500000015	Large Box (1kg)	50,000	0.28	X		
	Large Bag (1kg)	50,000	0.12	X		
4500000012	Nuts	28,709	1.82	X	3/05	3/20
	Blueberries	14,092	4.00	X		
	Strawberries	13,404	4.02	X		
	Rasins	25,487	1.07	X		
	Wheat	185,864	0.99	X		
	Oats	185,864	0.92	X		
4500000013	Large Box (1kg)	453,420	0.28	X		
	Large Bag (1kg)	453,420	0.12	X		

12 .Collective Convert Planned Orders to Production Orders

(Transaction Code CO41)

- Enter planning plant: \$\$
- Enter MRP controller: 101

Collective Conversion of Planned Orders: Initial Screen

Planning plant: Factory Z

MRP Area:

MRP Controller: Muesli Controller

Production Plant:

Prodn Supervisor:

Material:

Sales Order:

WBS element:

BOM explosion number:

Opening Date:

Select According to Status: ☐ Firmed Planned Orders ☐ Plan. Orders with Plan. Capacity

Select According to Availability: ☐ Fully Confirmed ☐ Not Confirmed ☐ Partly Confirmed ☐ Not Checked

Order Type: Standard production order

Click  (EXECUTE)

Collective Conversion of Planned Orders: List

Planned Orders

Opening	Capacit...	Start	End	Material	Description	Order Quantity	B...	Type	Planned order	Order	Pr...	P...
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F01	1kg Nut Muesli	50,000	ST	PP01	1		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F02	1kg Blueberry Muesli	50,000	ST	PP01	2		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F03	1kg Strawberry Muesli	50,000	ST	PP01	3		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F04	1kg Raisin Muesli	50,000	ST	PP01	4		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F05	1kg Original Muesli	50,000	ST	PP01	5		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F06	1kg Mixed Fruit Muesli	50,000	ST	PP01	6		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F01	1kg Nut Muesli	50,000	ST	PP01	7		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F02	1kg Blueberry Muesli	50,000	ST	PP01	8		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F03	1kg Strawberry Muesli	50,000	ST	PP01	9		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F04	1kg Raisin Muesli	50,000	ST	PP01	10		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F05	1kg Original Muesli	50,000	ST	PP01	11		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F06	1kg Mixed Fruit Muesli	50,000	ST	PP01	12		ZZ	

Select planned orders that you want to convert to production orders.

Collective Conversion of Planned Orders: List

Planned Orders

Opening	Capacit...	Start	End	Material	Description	Order Quantity	B...	Type	Planned order	Order	Pr...	P...
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F01	1kg Nut Muesli	50,000	ST	PP01	1		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F02	1kg Blueberry Muesli	50,000	ST	PP01	2		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F03	1kg Strawberry Muesli	50,000	ST	PP01	3		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F04	1kg Raisin Muesli	50,000	ST	PP01	4		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F05	1kg Original Muesli	50,000	ST	PP01	5		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F06	1kg Mixed Fruit Muesli	50,000	ST	PP01	6		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F01	1kg Nut Muesli	50,000	ST	PP01	7		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F02	1kg Blueberry Muesli	50,000	ST	PP01	8		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F03	1kg Strawberry Muesli	50,000	ST	PP01	9		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F04	1kg Raisin Muesli	50,000	ST	PP01	10		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F05	1kg Original Muesli	50,000	ST	PP01	11		ZZ	
2012-10-25	☐	2012-10-25	2012-10-26	ZZ-F06	1kg Mixed Fruit Muesli	50,000	ST	PP01	12		ZZ	

Convert Fields St./Reqmts MRP

Click on the icon "Convert" to execute.

Collective Conversion of Planned Orders: List

Planned Orders

R... Opening	Capacit...	Start	End	Material	Description	Order Quantity	B...	Type Planned order	Order	Pr...
✓ 2012-10-25		2012-10-25	2012-10-26	ZZ-F01	1kg Nut Muesli	50,000	ST	PP01 1	1000006	ZZ
✓ 2012-10-25		2012-10-25	2012-10-26	ZZ-F02	1kg Blueberry Muesli	50,000	ST	PP01 2	1000007	ZZ
✓ 2012-10-25		2012-10-25	2012-10-26	ZZ-F03	1kg Strawberry Muesli	50,000	ST	PP01 3	1000008	ZZ
✓ 2012-10-25		2012-10-25	2012-10-26	ZZ-F04	1kg Raisin Muesli	50,000	ST	PP01 4	1000009	ZZ
✓ 2012-10-25		2012-10-25	2012-10-26	ZZ-F05	1kg Original Muesli	50,000	ST	PP01 5	1000010	ZZ
✓ 2012-10-25		2012-10-25	2012-10-26	ZZ-F06	1kg Mixed Fruit Muesli	50,000	ST	PP01 6	1000011	ZZ
2012-10-25		2012-10-25	2012-10-26	ZZ-F01	1kg Nut Muesli	50,000	ST	PP01 7		ZZ
2012-10-25		2012-10-25	2012-10-26	ZZ-F02	1kg Blueberry Muesli	50,000	ST	PP01 8		ZZ
2012-10-25		2012-10-25	2012-10-26	ZZ-F03	1kg Strawberry Muesli	50,000	ST	PP01 9		ZZ
2012-10-25		2012-10-25	2012-10-26	ZZ-F04	1kg Raisin Muesli	50,000	ST	PP01 10		ZZ
2012-10-25		2012-10-25	2012-10-26	ZZ-F05	1kg Original Muesli	50,000	ST	PP01 11		ZZ
2012-10-25		2012-10-25	2012-10-26	ZZ-F06	1kg Mixed Fruit Muesli	50,000	ST	PP01 12		ZZ

Convert Fields St./Reqs MRP

6 planned orders have been converted

NOTES: The ERPsim system doesn't allow you to convert planned orders to production orders if you don't have enough required raw or packing materials in your stock.

13. Check Production Schedule

(Transaction Code ZCOOIS)

Production Schedule Report

Production Schedule Report: Quarter 2 Day 01

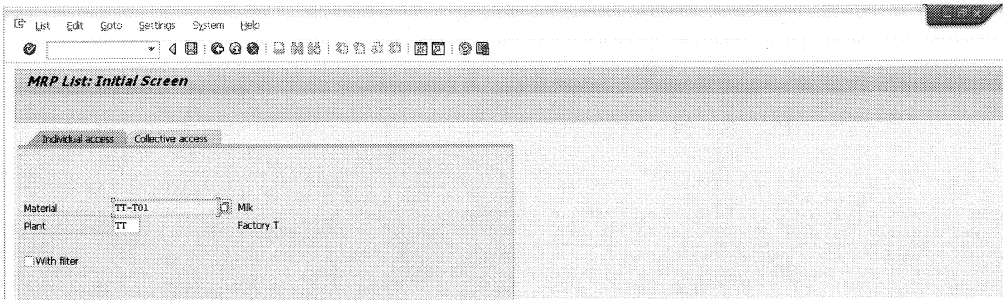
Order	Material Description	Start	Finish	Setup	Released	Target	Confirmed	Unit Cost
1000008	1kg Strawberry Muesli	N.Sch	N.Sch		2/01	50,000	0	0.00
1000009	1kg Raisin Muesli	N.Sch	N.Sch			50,000	0	0.00
1000011	1kg Mixed Fruit Muesli	N.Sch	N.Sch			50,000	0	0.00
1000010	1kg Original Muesli	N.Sch	N.Sch			50,000	0	0.00
1000006	1kg Nut Muesli	N.Sch	N.Sch			50,000	0	0.00
1000007	1kg Blueberry Muesli	N.Sch	N.Sch			50,000	0	0.00
1000000	1kg Nut Muesli	1/01	1/01		1/01	100,000	100,000	1.53
1000002	1kg Strawberry Muesli	1/01	1/01			100,000	100,000	1.97
1000003	1kg Raisin Muesli	1/01	1/01			100,000	100,000	1.38
1000005	1kg Mixed Fruit Muesli	1/01	1/01			100,000	100,000	1.76
1000001	1kg Blueberry Muesli	1/01	1/01			100,000	100,000	0.80
1000004	1kg Original Muesli	1/01	1/01			100,000	100,000	1.36

14. Review MRP Result

(Transaction Code MD05)

1) Review Individual Item:

- Select “Individual Access” TAB:
- Enter your material: finished goods or raw material
- Enter Plant: \$\$



-  (ENTER)

A. Date	MRP ...	MRP element data	Rescheduli...	E.	Receipt/Reqmt	Available Qty	S..
2012-10-20	Stock					157	
2012-11-01	POitem	4500000214/00010			643	800	03
2012-11-01	IndReq	LSF			800-		0

2) Review Collective Items:

- Select “Collective Access” TAB:
- Enter your plant code: \$\$
- Enter MRP Controller: 101

MRP List: Initial Screen

Individual access / Collective access

Plant: TT Factory T

Selection by:

- ☐ MRP controller
- ☒ Product group
- ☐ Vendor

Restrict Selection:

Date: From To

Exception Groups: From To

Processing Indicator: From To

Material Data: From To

MRP date: From To

Processing date: From To

Stock Days' Supply: To

1st Receipt Days' Supply: To

Second Receipt Days' Supply: To



(ENTER)

MRP List

Edit

Goto

System

Help

MRP List: Material List

Selected MRP lists

Define traffic light

Exception groups

Plant

ZZ

Factory Z

MRP Controller

101

Muesli Controller

Light	Material	Material Description	CI	N	1	2	3	4	5	6	7	8	StckDS	1st R...	2nd R	MRP date	Plant stock	B...	M...	P...	SP	A...	M...	Code
	000ZZ-F01	1kg Nut Muesli											999.9	999.9	999.9	2012-10-25	49,449	ST	FERT	X			PD 000	
	000ZZ-F02	1kg Blueberry Muesli											999.9	999.9	999.9	2012-10-25	40,007	ST	FERT	X			PD 000	
	000ZZ-F03	1kg Strawberry Muesli											999.9	999.9	999.9	2012-10-25	43,014	ST	FERT	X			PD 000	
	000ZZ-F04	1kg Raisin Muesli						1					6.0	6.0	6.0	2012-10-25	0	ST	FERT	X			PD 000	
	000ZZ-F05	1kg Original Muesli											999.9	999.9	999.9	2012-10-25	42,847	ST	FERT	X			PD 000	
	000ZZ-F06	1kg Mixed Fruit Muesli											999.9	999.9	999.9	2012-10-25	0	ST	FERT	X			PD 000	
	000ZZ-P01	Large Box (1kg)						1					6.0	6.0	6.0	2012-10-25	100,000	ST	ROH	F			PD 001	
	000ZZ-P02	Large Bag (1kg)						1					6.0	6.0	6.0	2012-10-25	100,000	ST	ROH	F			PD 001	
	000ZZ-P03	Small Box (500g)											999.9	999.9	999.9	2012-10-25	0	ST	ROH	F			PD 001	
	000ZZ-P04	Small Bag (500g)											999.9	999.9	999.9	2012-10-25	0	ST	ROH	F			PD 001	
	000ZZ-R01	Nuts											999.9	999.9	999.9	2012-10-25	0	KG	ROH	F			PD 001	
	000ZZ-R02	Blueberries											999.9	999.9	999.9	2012-10-25	0	KG	ROH	F			PD 001	
	000ZZ-R03	Strawberries											999.9	999.9	999.9	2012-10-25	0	KG	ROH	F			PD 001	
	000ZZ-R04	Raisins						1					6.0	6.0	6.0	2012-10-25	0	KG	ROH	F			PD 001	
	000ZZ-R05	Wheat						1					6.0	6.0	6.0	2012-10-25	40,000	KG	ROH	F			PD 001	
	000ZZ-R06	Oats						1					6.0	6.0	6.0	2012-10-25	40,000	KG	ROH	F			PD 001	

Select any line item

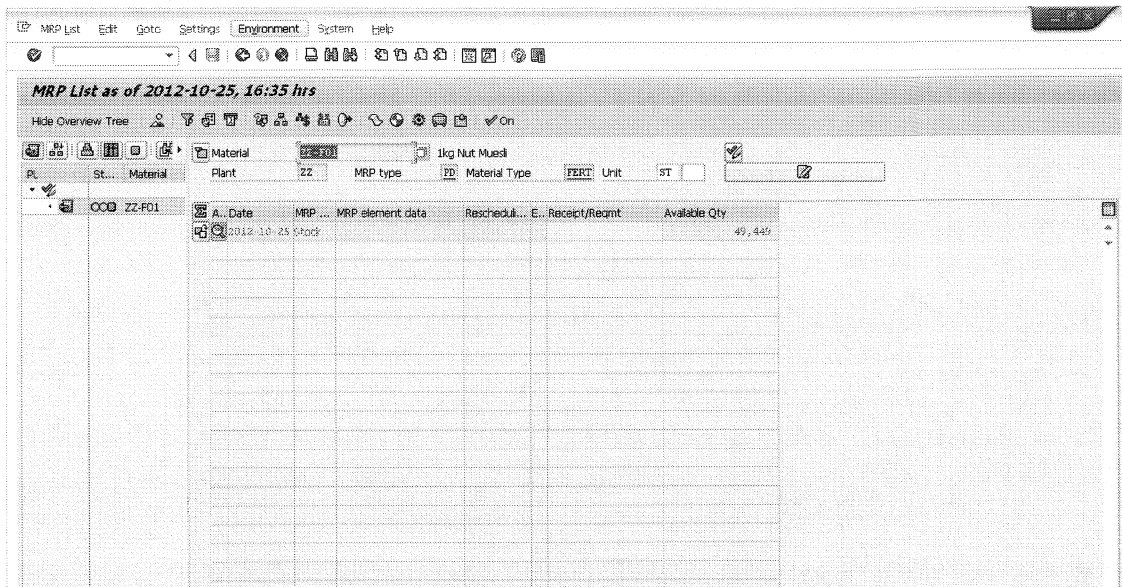
MRP List: Material List

Selected MRP lists Define traffic light Exception groups

Plant ZZ Factory Z

MRP Controller 101 Muesli Controller

Light	Material	Material Description	CI	N	1	2	3	4	5	6	7	8	StckDS	1st R...	2nd R	MRP date	Plant stock	B...	M...	P...	SP	A...	M...	Code
	000ZZ-F01	1kg Nut Muesli												999.9	999.9	999.9	2012-10-25	49,449	ST	FERT	X			PD 000
	000ZZ-F02	1kg Blueberry Muesli												999.9	999.9	999.9	2012-10-25	40,007	ST	FERT	X			PD 000
	000ZZ-F03	1kg Strawberry Muesli												999.9	999.9	999.9	2012-10-25	43,014	ST	FERT	X			PD 000
	000ZZ-F04	1kg Raisin Muesli							1					6.0	6.0	6.0	2012-10-25	0	ST	FERT	X			PD 000
	000ZZ-F05	1kg Original Muesli												999.9	999.9	999.9	2012-10-25	42,847	ST	FERT	X			PD 000
	000ZZ-F06	1kg Mixed Fruit Muesli												999.9	999.9	999.9	2012-10-25	0	ST	FERT	X			PD 000
	000ZZ-P01	Large Box (1kg)							1					6.0	6.0	6.0	2012-10-25	100,000	ST	ROH	F			PD 001
	000ZZ-P02	Large Bag (1kg)							1					6.0	6.0	6.0	2012-10-25	100,000	ST	ROH	F			PD 001
	000ZZ-P03	Small Box (500g)												999.9	999.9	999.9	2012-10-25	0	ST	ROH	F			PD 001
	000ZZ-P04	Small Bag (500g)												999.9	999.9	999.9	2012-10-25	0	ST	ROH	F			PD 001
	000ZZ-R01	Nuts												999.9	999.9	999.9	2012-10-25	0	KG	ROH	F			PD 001
	000ZZ-R02	Blueberries												999.9	999.9	999.9	2012-10-25	0	KG	ROH	F			PD 001
	000ZZ-R03	Strawberries												999.9	999.9	999.9	2012-10-25	0	KG	ROH	F			PD 001
	000ZZ-R04	Raisins							1					6.0	6.0	6.0	2012-10-25	0	KG	ROH	F			PD 001
	000ZZ-R05	Wheat							1					6.0	6.0	6.0	2012-10-25	40,000	KG	ROH	F			PD 001
	000ZZ-R06	Oats							1					6.0	6.0	6.0	2012-10-25	40,000	KG	ROH	F			PD 001



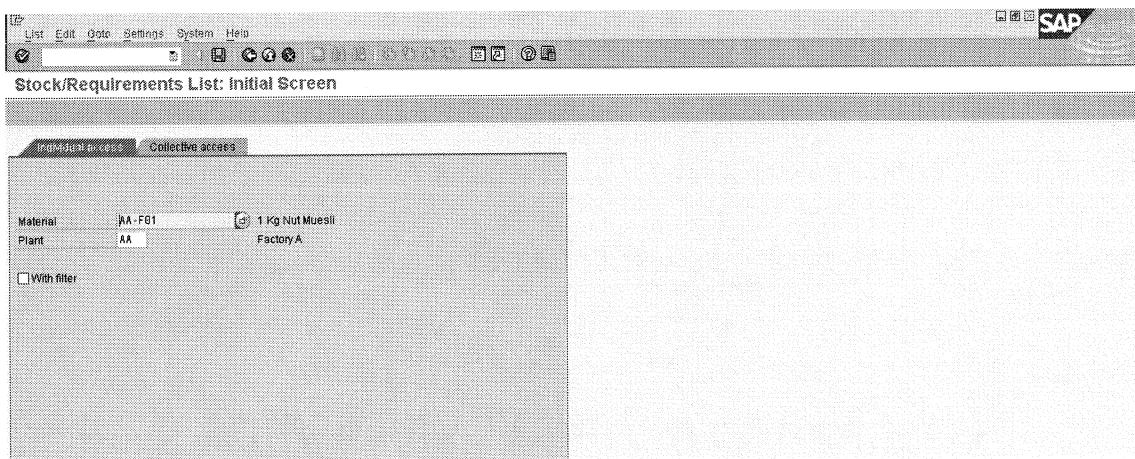
(EXIT)

15. Check Individual or Collective Stock level

(Transaction Code MD04)

1.) For checking individual stock level:

- Select “Individual Access” TAB
- Enter your material (either finished product or raw material)
- Enter plant: \$\$



(ENTER)

Stock/Requirements List as of 10:36 hrs

Material: AA-F01 1 Kg Nut Muesli

Plant: AA MRP type: ED Material Type: FERT Unit: ST

A	Date	MRP e	MRP element data	Reschedul	E	Receipt/Reqmt	Available Qty	S
2011-12-09	Stock						11,373	
2011-10-02	ProdOrd	000001000165/PP01		07		20,000	31,373	02
2011-10-02	ProdOrd	0000001190/STCK		07		50,000	61,373	02
2011-10-02	ProdOrd	0000001191/STCK		07		18,627	100,000	02
2011-10-02	IndReq	LSF				100,000	0	

2.) For checking collective stock level:

- Select "Collective Access" TAB
- Enter your plant : \$\$
- Enter MRP Controller:101

Stock/Requirements List: Initial Screen

Individual access Collective access

Plant: ZZ Factory T

Selection by:

- MRP controller: 101 Dairy Controller
- Product group:
- Vendor:
- Production line:
- Class:
- Class Type:

Restrict Selection:

Material Data Flags

Procurement type: ABC Indicator MRP Type

Special procurement: Plant-sp.matl status

✓ Set up lists in background

➤  (ENTER)

Stock/Requirements List: Material List

Selected stock/requirements lists Define traffic light Exception groups

Plant: ZZ Factory Z

MRP Controller: 101 Muesli Controller

Light	Material	Material Description	A	Stock	1st R...	2nd R...	1	2	3	4	5	6	7	8	Pl...	B...	M...	P...	S...	A...	M...	Cde	C
	ZZ-F01	1kg Nut Muesli	999.9	1st RDS	99.9										0	ST	FERT	X			PD	000	✓
	ZZ-F02	1kg Blueberry Muesli	999.9	999.9	999.9										0	ST	FERT	X			PD	000	✓
	ZZ-F03	1kg Strawberry Muesli	999.9	999.9	999.9										0	ST	FERT	X			PD	000	✓
	ZZ-F04	1kg Raisin Muesli	999.9	999.9	999.9										0	ST	FERT	X			PD	000	✓
	ZZ-F05	1kg Original Muesli	999.9	999.9	999.9										0	ST	FERT	X			PD	000	✓
	ZZ-F06	1kg Mixed Fruit Muesli	999.9	999.9	999.9										0	ST	FERT	X			PD	000	✓
	ZZ-F01	Large Box (1kg)	999.9	999.9	999.9										0	ST	ROH	F			PD	001	✓
	ZZ-F02	Large Bag (1kg)	999.9	999.9	999.9										0	ST	ROH	F			PD	001	✓
	ZZ-F03	Small Box (500g)	999.9	999.9	999.9										0	ST	ROH	F			PD	001	✓
	ZZ-F04	Small Bag (500g)	999.9	999.9	999.9										0	ST	ROH	F			PD	001	✓
	ZZ-R01	Nuts	999.9	999.9	999.9										0	KG	ROH	F			PD	001	✓
	ZZ-R02	Blueberries	999.9	999.9	999.9										0	KG	ROH	F			PD	001	✓
	ZZ-R03	Strawberries	999.9	999.9	999.9										0	KG	ROH	F			PD	001	✓
	ZZ-R04	Raisins	999.9	999.9	999.9										0	KG	ROH	F			PD	001	✓
	ZZ-R05	Wheat	999.9	999.9	999.9										0	KG	ROH	F			PD	001	✓
	ZZ-R06	Oats	999.9	999.9	999.9										0	KG	ROH	F			PD	001	✓

General guideline for case 3 analysis

1. Purpose: Extract lessons learned and/or best practices, by routinely and systematically reflecting on your experience of running a business operation, whether it was success and/or failure.
2. Core focus of the analysis effort
 1. Evaluate whether your strategy worked or not, and answer why or why not.
 2. Learn from your success and/or mistake/failure
 3. Broaden and deepen your operation experience by accumulating lessons learned and best practices
3. Analysis procedure and report outline:
 1. Document your initial operations strategy and every change in your strategy
 2. Record consequential issues that were irrelevant to your operations strategy but affected your performance, such as miscommunications or system interface problems.
 3. Upload the business data of the entire market and individual companies.
 4. Evaluate performance of each operation strategy over time, using graphs, charts and diagrams to highlight performances and identify performance drivers.
 5. Identify if correlations exist between operations factors (such as pricing vs. marketing)
 6. Identify if casual effect relationships exist between operations factors.
 7. Draw lessons learned from this this specific operation run.
 8. Draw best practices that are applicable to all sorts of operations in general
4. Possible analysis efforts and techniques of use:
 1. Graphing and clustering techniques
 - Look into daily inventory, such as stock out, the number of days of stock out; how it affects your business objective, and how it compares to other companies.
 - Look into daily sales quantity and value amount for each product in each area; how it affects your business objective, and how it compares to other companies.
 - Look into daily price and price changes for each product; how it affects your business objective, and how it compares to other companies.
 - Look into daily marketing investment for each product in each area; how it affects your business objective; and how it compares to other companies
 - Look into purchase orders released in quarter 3 in your company, including how many POs, dollar amount for each PO, total dollar amount, and how it compares to other companies.
 - Look into production orders, including daily produced quantity of each product, the average daily production capacity utilization rate in Q2 and Q3. Assume the production capacity is 25,000/day.
 2. Correlation
 - Look into whether there exists a correlation between inventory and sales/profits?
 - Look into whether there exists a correlation between price and sales/profits? Your comments.
 - Look into whether there exists a correlation between market investment and sales/profits? Your comments.
 3. Regression
 - Look into possible causal effect relationships exist between the above factors