SAP ERP Lab: PP 模組操作練習(1)

屏東大學會計學系 周國華老師 (本次更新: 2024/07/24)

● PP 模組的交易範例: (取材自 SAP GBIKE 1809 教材第六章 PP 模組)



● 步驟 1: Change Material Master Record (修改物料主檔)

角色扮演:GBI公司的生產主管(Production Supervisor): Jun Lee 任務情境:為三款自行車產品維護物料主檔內的 MRP3 和 Forecasting 頁籤資料

 請使用自己的帳號、密碼登入 SAP 系統,在[Enter transaction code or command]欄中輸入 MM02 這個交易代碼(T-code)。按[Enter]。(或從以下路徑進入:Logistics => Production => Master Data => Material Master => Material => Change => Immediately)

系統帶出 Change Material (Initial Screen) 視窗如下:

< SAP	Change Material (Initial Screen)
Select View(s) Org. Levels Data More \vee	Exit
* Material:	
	Continue

2. 在 Material 欄位按旁邊的搜尋按鈕或 F4 鍵,系統帶出 Material Number (1)視窗,確認是在

Material by Material Type 頁籤內。在 Material type 欄位選擇代表 Finished Product 的 【FERT】,在 Material 欄位輸入【*###】(###是同學 SAP 帳號後三碼),如下圖:

	1	Material Number	(1)		_ ×
<	Sales Material by Description	Material by Material Type	Material by Supply Are	a Plant Materi	>
	Material type: 🔳 FE	RT			
	Language Key: M EN				
	Material: 🚺 🙎	<u>]]</u>			
	Maximum No. of Hits: 500				
			≪ Start Search 🛛 💠 Mi	ltiple Selection [¥ Close

 按下[Enter]或視窗右下方的^{♥ Stat Search},從跳出的 Material Number (1)搜尋結果視窗中選擇 DELUXE TOURING BIKE (RED)這個選項,該項目的最後一欄編號是 DXTR3### (###是同 學的 SAP 帳號後三碼),系統回到 Change Material (Initial Screen)視窗,如下圖:

=	SAP Business Client	_ 🗆 ×
E Change Material (Initi × + 🚥		
😑 ★ Enter transaction code or command		۹ 🔲
K SAP c	Thange Material (Initial Screen)	
Select View(s) Org. Levels Data More \sim		Exit
* Material: DXTR3201 Change Number:	ব্	Continue

4. 點按視窗右下方的[Continue],系統帶出 Select View(s)視窗。勾選 MRP3 及 Forecasting 兩個 頁籤,如下圖:



5. 按[Enter]或視窗下方的綠色勾號,系統帶出 Organizational Levels 視窗,如下圖:

	Organizational Levels	3	×
Organiza	Plant:		
12	Stor. Loc.:		
	✓ Select View(s)	🖫 Default Setting 💈	×

6. 在 Plant 欄位選擇【DL00】, Stor. Loc.欄位選擇 DL00 的【FG00】(代表 Finished Goods), 按 [Enter], 系統帶至 Change Material DXTR3### (Finished Product)視窗的 MRP3 頁籤。在 Strategy Group 欄位選擇代表 Planning with final assembly 的【40】, Consumption mode 欄位 選擇代表 Backward consumption only 的【1】, 在 Bwd consumption per.欄位輸入【30】, 如下 圖:

₽. <	Change Material DXTR3201 (Finished Product)	
[͡ᢖ → Additional	il Data 🗸 Org. Levels 🖞 Check Screen Data 🔒 More 🗸	Exit
< MRP 2 👼 MR	RP 3 MRP 4 Advanced Planning 👼 Forecasting Work scheduling F	Plant data / stor. 1 Pla > 🚥
Material: DX * Descr.: Del Plant: DLI	TR3201 Juxe Touring Bike (red) D0 Plant Dallas	
Forecast Requiremen	nts	
Planning	Strategy Group: 40 Planning with final assembly	
Consi Fwd cor	sumption mode: 1 Bwd consur	nption per.: 30
Plai	nning material: Plan ng conv. factor: Planning r	ning plant:
		Ĵ
		Save

7. 按下[Enter],跳至 Forecasting 頁籤(註:過程中若出現 Check the consumption periods 警告訊息,再按一次[Enter]即可)。在 Initialization pds 欄位輸入【12】,取消勾選 Reset automatically,勾選 Param.optimization,在 Optimization level 欄位選擇代表的 Fine (high optimization level)的【F】, Alpha factor 欄位輸入【0.2】, Beta factor 欄位輸入【0.1】, Gamma factor 欄位輸入【0.3】, Delta factor 欄位輸入【0.3】,如下圖:

補充說明:

Alpha factor 及 Beta factor 是歷史銷售數據在預測未來時的參考權重, alpha 用來處理基本數 據,預設值為 0.2; beta 用來處理趨勢數據,預設值是 0.1。Gamma factor 用來處理銷售數據 中存在的季節性波動,預設值為 0.3。Delta factor 用來處理銷售數據中存在的異常偏差值, 預設值為 0.3。

✓ < SAP	Change Material DXTR3201 (Finished Product)	
[] → Additional Data $\stackrel{R}{\rightarrow}$ Org. Levels	D Check Screen Data 🔒 More 🗸	Exit
Advanced Planning 👼 Forecasting	Work scheduling Plant data / stor. 1 Plant data / stor. 2 Warehouse Mgmt 1	>
Material: DXTR3201 * Descr.: Deluxe Touring Bike (red) Plant: DL00 Plant Dallas		0
* Base Unit of Measure: EA Last forecast: RefMatl: consumption: Date to:	Forecast model: X Period Indicator: M Fiscal Year Variant: RefPlant:consumption: Multiplier:	
Number of periods required Hist. periods: 60 Initialization pds: 12	Forecast periods: 12 Periods per season: 12 Fixed periods:	
Control data		
Initialization: X Model selection: Optimization level: F Alpha factor: 0.2 Gamma factor: 0.3	Tracking limit: 4.000 Reset automatically Selection procedure: 2 Param.optimization Weighting group: Correction factors Beta factor: 0.1 Delta factor: 0.3 Q	
		Save

將卷軸往下,可看到右下方有 ^{Consumption vals} 按鈕,點按後可看到過去幾年的消費值(Consumption values)紀錄,點按左下方的 Total consumption 按鈕,表格中會增加 Total consumption 欄位。檢視完畢後,可按視窗上方的 ← Main Data,回到 Forecasting 頁籤。按視窗

右下方的[Save],儲存 DXTR3###這項產品的修改資訊。系統回到 Change Material (Initial Screen)視窗,視窗左下方有 Material DXTR3### changed 訊息。如下圖:

Change Material (Initial Screen)	
Select View(s) Org. Levels Data More \sim	Exit
* Material: DXTR3201 Change Number:	
V Material DXTR3201 changed	Continue

- 9. 重複上述步驟,把DXTR2### (Silver 銀色)及DXTR1### (Black 黑色)這兩項自行車產品的資訊也做相同的調整。
- 10. 以上為步驟 1。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。

● 步驟 2: Change Routing (修改途程)

角色扮演:GBI公司的生產主管(Production Supervisor):Jun Lee 任務情境:修改 DXTR3#### 這款自行車的生產組裝途程 名詞解析:途程(routing)詳列生產過程中需依序經過的步驟或工序

 接續步驟 2,(若完成步驟 2後已下線,請使用自己的帳號、密碼重新登入 SAP 系統),在 [Enter transaction code or command]欄中輸入 CA02 這個交易代碼。按[Enter]。(或從以下路徑 進入: Logistics => Production => Master Data => Routings => Routings => Standard Routings => Change)

系統帶出 Change Routing: Initial Screen 視窗,在 Material 欄位輸入【DXTR3###】(###是同 學 SAP 帳號後三碼),Plant 欄位選擇【DL00】,確保 Group 欄位內容是空白。Key Date 欄位 預設顯示為操作日期。如下圖:

< SAP	Change Routing: Initial Screen	
🛎 🖃 Routings Sequences	Operation More \sim	Exit
Material: Plant: Sales document: WBS Element: Group:	DXTR3201 DL00 Q Sales Document Item:	
Validity Change Number: * Key Date: Revision level:	2024/07/16	
Additional criteria for task list selec	tion	
Plant: Group Counter: Task List Status: Planner Group:		
Additional data		
Profile:		
		Continue

 按視窗右下方的[Continue],系統帶出 Change Routing: Operation Overview 視窗,顯示 DXTR3###這款自行車的原始生產程序包含 11 個步驟(Operation 欄顯示的 0010~0110)。如下 圖:

	< 54	P				Change	Routing: Operation Overview								
	$\langle \rangle$	۰	š≘ ≣≘	Ū 4	4 G	🖞 Reference W	ork center Allocation Sequences	🛋 PRI	M	ore 🗸			(2 Q+	Exit
Ma	terial DXTI Sequence	R3201 e: D	M	De	luxe Touring I	3ikeGrp.Count1									ø
	Operation	SOp	Work center	Plant	Control key	Standard Text Key	Description	Lon PR	Cla.	. Obj	. Peri	Cu	Sub	Base Quanti	ty
	0010		ASSY1000	DLOO	ASSY		Material staging							15	\$
	0020		ASSY1000	DLOO	ASSY		Attach seat to frame							1	
	0030		ASSY1000	DLOO	ASSY		Attach handle bar assembly							1	
	0040		ASSY1000	DLOO	ASSY		Attach derailleur gear assm. to wheel							1	
	0050		ASSY1000	DLOO	ASSY		Attach front and real wheels to chain							1	
	0060		ASSY1000	DLOO	ASSY		Attach brakes							1	
	0070		ASSY1000	DLOO	ASSY		Attach peddles							1	
	0080		INSP1000	DLOO	ASSY		Test bike							1	
	0090		PACK1000	DLOO	ASSY		Disassemble							1	
	0100		PACK1000	DLOO	ASSY		Pack bike							1	
	0110		PACK1000	DL00	ASSY		Move to storage							15	
	0120			DLOO										1	
	0130			DLOO										1	
	0140			DLOO										1	~
		Entry:	1		of: 11									Save C	Cancel

3. 點按視窗上方的 Allocation , 系統帶出 Routing Change: Material Component Overview 視窗,

Item Overview 顯示此款自行車共有 10 種物料組件(Item Number 欄位編號 0010~0100)。請在 最左欄勾選其中的 TRFR3###及 TRSK1###這兩項物料,如下圖:

		Mate P Gr B	mial: DX lant: DL cup: 50 OM: 00	TR3201 00 003622 009221			Sequence: Alt. BOM:	0	Deluxe I	Fouri	ng Bike (red)			
Iten	n Overview														0
Pł	antom Assy	Leve	l Path	Item Number	Component	Quanti	Sort String	Unit of Meas.	Item cate	B	Activity	Seq.	C.	Material Description	
		0	0	0010	TRWA1201	2		EA	L					Touring Aluminum Wheel Assembly	-
		0	0	0020	TRFR.3201	1		EA	L					Touring Frame-Red	
		0	0	0030	DGAM1201	1		EA	L					Derailleur Gear Assembly	
1		0	0	0040	TRSK1201	1		EA	L					Touring Seat Kit	
3		0	0	0050	TRHB1201	1		EA	L					Touring Handle Bar	
		0	0	0060	PEDL1201	1		EA	L					Pedal Assembly	
		0	0	0070	CHAN1201	1		EA	L					Chain	
		0	0	0080	BRKT1201	1		EA	L					Brake Kit	
		0	0	0090	WDOC1201	1		EA	L					Warranty Document	
		0	0	0100	PCKG1201	1		EA	L					Packaging	

4. 點按視窗上方的 New Assignment, 系統帶出 New Assignment 視窗, 如下圖:

Assign to	D			_
	Activity:	Sequence	a 0	

5. 點按視窗右下方的 Oper./act. list ,系統帶出 Choose Operation (選擇工序)視窗,請選擇 0020 這個

工序(欄名 OpAc 是 Operation Activity 的簡稱),如下圖:

=			Choose Operation		×
Seq.	OpAc	Work ctr	Operation short text		\$
0 0	0010	ASSY1000	Material staging		
0	0020	ASSY1000	Attach seat to frame		
0 0	0030	ASSY1000	Attach handle bar assembly		
0 0	0040	ASSY1000	Attach derailleur gear assm. to wheel		
0 0	0050	ASSY1000	Attach front and real wheels to chain		
0 0	0060	ASSY1000	Attach brakes		
					^
				V	×

6. 點按視窗右下方的綠色勾號。系統回到 Routing Change: Material Component Overview 視窗, 可看到 TRFR3###及 TRSK1###這兩個原料的 Activity 欄為均顯示工序為 0020。如下圖:

Ph	iantom Assy	Level	Path	Item Number	Component	Quantity	Sort String	Unit of Meas.	Item cate	В	Activity	Seq.	C.	Material Description
		0	0	0010	TRWA1201	2		EA	L					Touring Aluminum Wheel Assembly
		0	0	0020	TRFR3201	1		EA	L		0020	0		Touring Frame-Red
		0	0	0030	DGAM1201	1		EA	L					Derailleur Gear Assembly
		0	0	0040	TRSK1201	1		EA	L		0020	0		Touring Seat Kit
		0	0	0050	TRHB1201	1		EA	L					Touring Handle Bar
		0	0	0060	PEDL1201	1		EA	L					Pedal Assembly
		0	0	0070	CHAN1201	1		EA	L					Chain
		0	0	0080	BRKT1201	1		EA	L					Brake Kit
		0	0	0090	WDOC1201	1		EA	L					Warranty Document
		0	0	0100	PCKG1201	1		EA	L					Packaging

7. 接下來,請重複上述步驟來為其餘8種物料組件指派下表顯示的對應工序:

Component	Operation
TRHB1###	0030
TRWA1###	0040
DGAM1###	0040
CHAN1###	0050
BRKT1###	0060
PEDL1###	0070
WDOC1###	0100
PCKG1###	0100

8. 設定完成後, Routing Change: Material Component Overview 視窗如下圖:

Plant: DL00 Group: 50003622 BOM: 00009221 tem Overview Phantom Assy Level Path Item Nu:		Sequence: Alt. BOM:	0					
Group: 50003622 BOM: 00009221 em Overview Phantom Assy Level Path Item Nu:		Sequence: Alt. BOM:	0					
BOM: 00009221 em Overview Phantom Assy Level Path Item Nu:		Alt. BOM:	1					
em Overview Phantom Assy Level Path Item Nu:								
Phantom Assy Level Path Item Nu:								
	iber Component Q	uantity Sort String	Unit of Meas.	Item cate	в ;	Activity	Seq.	C. Material Description
0 0 0010	TRWA1201 2		EA	L		0040	0	Touring Aluminum Wheel Assembly
0 0 0020	TRFR3201 1		EA	L		0020	0	Touring Frame-Red
0 0 0030	DGAM1201 1		EA	L		0040	0	Derailleur Gear Assembly
0 0 0040	TRSK1201 1		EA	L		0020	0	Touring Seat Kit
0 0 0050	TRHB1201 1		EA	L		0030	0	Touring Handle Bar
0 0 0060	PEDL1201 1		EA	L		0070	0	Pedal Assembly
0 0 0070	CHAN1201 1		EA	L		0050	0	Chain
0 0 0080	BRKT1201 1		EA	L		0060	0	Brake Kit
0 0 0090	WDOC1201 1		EA	L		0100	0	Warranty Document
0 0 0100	PCKG1201 1		EA	L		0100	0	Packaging

9. 按視窗右下方的[Save],系統回到 Change Routing: Initial Screen 視窗,左下方顯示 DXTR3### 這項產品的途程已儲存的訊息,如下圖:



10. 以上為步驟 2。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。

● 步驟 3: Display Product Group (檢視產品群)

角色扮演:GBI公司的生產主管(Production Supervisor):Jun Lee 任務情境:檢視 Deluxe Touring Bike 這個產品群三種不同顏色車款的佔比

 接續步驟 2,(若完成步驟 2後已下線,請使用自己的帳號、密碼重新登入 SAP 系統),在 [Enter transaction code or command]欄中輸入 MC85 這個交易代碼。按[Enter]。(或從以下路 徑進入: Logistics => Production => SOP => Product Group => Display) [註: SOP 是 Sales and Operations Plan (銷售及運營計畫)的縮寫]

<	SAP	Display Product Group: Initial Screen	
More	×		Exit
	Product group:		

系統帶出 Display Product Group: Initial Screen 視窗如下:

 在 Product group 欄位按下 F4 鍵(或按欄位旁的搜尋按鈕),系統帶出 Name of the product group (1)視窗。在 Material description 欄位輸入【###*】(###是同學 SAP 帳號後三碼,並注 意 *必須放在後面,否則無法搜尋),Plant 欄位選擇【DL00】,如下圖:

	Name of the product group (1)		_ ×
Find product group via MRP controller	Find product group via description	Find product group via plant	>
MRP Controller:			
Material description: 💽 201*			
Language Key: M EN			
Product group:			
Plant: 📃 🔟 💷			
Maximum No. of Hits: 500]		
	🖋 Start Search	🚯 Multiple Selection 🛛 🗵	Close

3. 按視窗下方的 ^{✓ Start Search}

,系統帶出類似下圖的產品群搜尋結果:

Find product group via MRP controller	Find produ	uct group via de	scription Find product group via pl >
MDD Controllour	12	~	
MRP Controller:			
 ✓ X Q Q' ★ Ø ⊕ ∨ ₽ 			
Material description	Language	Product group	Plnt
201 PRODUKTGRUPPE DELUXE TOURING BIKE	EN	PG-DXTR201	DL00
201 PRODUKTGRUPPE FAHRRÄDER	EN	PG-BIKE201	DL00
201 PRODUKTGRUPPE MOUNTAINBIKES	EN	PG-ORBK201	DL00
201 PRODUKTGRUPPE PROFI TOURING BIKE	EN	PG-PRTR201	DL00
201 PRODUKTGRUPPE TOURING BIKES	EN	PG-TRBK201	DL00
5			
5 Entries found			1

 點選 DELUXE TOURING BIKE 這個產品群,代表該產品群的 PG-DXTR###會出現在 Display Product Group: Initial Screen 視窗的 Product group 欄位內,請確認 Plant 欄位已選擇 【DL00】。如下圖:

< SAP	Display Product Group: Initial Screen	
More 🗸		Exit
Product group: Plant:	FG-DXTR201 DL00	

5. 按[Enter],系統帶出此產品群的詳細資訊。如下圖:

< SAP			Display Product (Group: Members (Materia	ls)		
Next Level Hierarchy	Graphic	Versions	Master Data	Product Group Gra	phic	More 🗸		Exit
Product group:	PG-DX1	TR201:						
	201 Pro	duktgruppe Delu	xe Touring Bike					
Plant			DLDD · Plant D	allas				
			DEGGI PRATEE	anab				
Base Unit:	EA							
Member number	Plnt	Unit conv.	Aggr.fact.	Proportion	UoM	VMF.	Short Text	МТур
XTR1201	DLOO	1	1	40	EA		Deluxe Touring Bike (black)	FERT
KTR2201	DLOO	1	1	30	EA		Deluxe Touring Bike (silver)	FERT
KTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DLOO	1	1	30	EA		Deluxe Touring Bike (red)	FERT
	ת זת	1	1	30	EA		Deluxe Touring Bike (red)	FERT
XTR3201	DDOO							

- 6. 上圖表格中,第一列顯示黑色(black)車款佔此產品群 40%,第二、三列顯示銀色(silver)及紅 色(red)車款各佔此產品群 30%。第四列開始為重複性訊息,可忽略之。
- 7. 以上為步驟 3。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。

● 步驟 4: Create Sales and Operations Plan (創建銷售及運營計畫)

角色扮演:GBI公司的生產主管(Production Supervisor):Jun Lee 任務情境:根據過去數據創建未來一年的銷售、生產計畫數據

 接續步驟 3,(若完成步驟 3後已下線,請使用自己的帳號、密碼重新登入 SAP 系統),在 [Enter transaction code or command]欄中輸入 MC82 這個交易代碼。按[Enter]。(或從以下路 徑進入:Logistics => Production => SOP => Planning => For Product Group => Change)

系統帶出 Change Plan: Initial Screen 視窗,在 Product group 欄位輸入【PG-DXTR###】(### 是同學 SAP 帳號後三碼), Plant 欄位選擇【DL00】,如下圖:

< SAP	Change Plan: Initial Screen	
More ~	Exit	
* Product group: * Plant:	PG-DXTR201 DICOD Q	~
Version selection		
Active version	Inactive version	-

2. 點按視窗左下方 Version selection 資料區塊的 Active version ,系統帶出 Change Rough-Cut

Plan 추	見窗如下	: :	(註:	請記下 Version	欄位顯示的版本編號[本圖內為 A00],	後面步驟會用到。)
--------	------	-----	-----	-------------	----------------------	-----------

	< SAP			Cha	nge Rough-Cut P	lan			
	🛚 Characteristic 🔳 More	\sim							Exit
	Product group: Plant: Version:	PG-DXT DL00 A00 A	R201 Active version			201 Pr	oduktgruppe Deluxe Active	Touring Bike	
S	OP: plan individual product gr	oup	M 2024/07	M 2024/08	M 2024/09	M 2024/10	M 2024/11	M 2024/12	
0	Sales	EA	M LOL HOT	In Edd froo	1112021105	14 202 1120		112021122	
0	Production	EA							
0	Stock level	EA							
			× «	< >	× ×				
									Save Cancel

3. 在視窗上方工具列依循以下路徑 More => Edit => Create sales plan => Forecast...

	< SAP			Change Rough-Cu	t Pla	n
,	I Characteristic 🔳 M	lore 🗸				
		Planning	>			
	Product g	Edit		<u>S</u> elect >		201 Produktgruppe Deluxe Touring Bike
	1	<u>G</u> oto	>	<u>C</u> reate sales plan	>	Transfer plan from SIS
	Vei	Extras	>	Create pr <u>o</u> ductn plan	>	Tgfr CO/PA plan
		Settings	>	<u>M</u> acro		Forecast
S	DP: plan individual produ	System	>	Distribute (F6)	- 1	Transfer PG prop.
m	Planning Table	Help	>	Interactive graphics	>	M 2024/10 M 2024/11 M 2024/12
0	Sales	CAP CIII asttings and actions	_	5 1 1 1'u'	~	
0	Production	SAL GOTSemillas and actions		renoa splitting	1	
0	Stock level	EA		Cancel (F12)		
			_			•

系統帶出 Forecast: Model Selection 視窗,點選 Period intervals,在 Forecast 的 From 欄位輸入 【現在年份/現在月份】, To 欄位輸入【明年年份/前一月份】;在 Historical data 的 From 欄位 輸入【2014/04】, To 欄位輸入【2018/03】。在 Forecast execution 資料區域選擇 Aut.model seceltion。如下圖:

	Forecast: Model Selection	
Periods		
Period intervals		
Forecast	* From 2024/07	* To: 2025/06
Historical data	* From 2014/04	* To: 2018/03
🔘 No. of periods		
	No. of forecast periods: 0	
	No. of historical values: 120	
O Constant models	🚫 Seasonal mod	lels
○ Trend models	🔘 Season. Trend	d Models
• Aut. model selection	Historical	
Forecast parameters		
	Profile: SAP	
Chook ontru	C Forecasting Historical Fr	precast profile Version

4. 點按視窗下方的^{C Forecasting},系統可能會出現警告視窗,提醒資料庫的內存資料期間比輸入的期間來得窄。請忽略它,按[Enter]或綠色勾號。系統帶出 Forecast: Parameters for Automatic Model Selection 視窗,請選擇 Trend and season,如下圖:

Forecast: Parameters for Au	tomatic Model Selection ×
Exponential smoothing, first-order with test	for
O Trend	
Alpha factor: Beta factor:	0.20
Season	
Alpha factor: Gamma factor:	0.20
Periods per season:	12
Trend and season	
O Seasonal model and test for trend	
O Trend model and test fro season	
Alpha factor:	0.20
Beta factor:	0.20
Gamma factor:	0.20
Periods per season:	12
O Forecast model sel. using procedure 2	
Periods per season:	12
Check er	ntry 🕑 Forecasting Historical 🗙

5. 點按視窗下方的^{C. Forecasting},系統會呈現短暫的運算過程,並帶出 Forecast: Results 視窗,如

下圖:(圖中數據從 2014/07 到明年前一月份,檢視會發現有季節性趨勢。同學操作產生的數值可能會和講義上看到的不一樣。)

=			Forecast: Re	sults				×
	Basic value:	319.720 17		Trend v Error	value: total: 6.	5		<>
Porecast results		C UV	E EV	Q: EV	C	C.	F . C	
M 2024/12	Ong. HV	Coll. HV	EX-post F V	806 806	806	1.06	r C	
M 2025/01				883	883	1.16	nn.	
M 2025/02				800	800	1.04	00	
M 2025/03				772	772	1.00	00	
M 2025/04				759	759	0.97	joo -	
M 2025/05				811	811	1.03		
M 2025/06				694	694	0.88		
No forecast error me	ssages exist							*
			🖫 Save (Zheck entry 🛛 🔀	lıı. ₪ ∿	() Forecasting	🖽 Use	r exit

6. 點按視窗下方的綠色勾號(此處綠色勾號代表 Copy and Save),系統回到 Change Rough-Cut Plan 視窗,此時 Sales 及 Stock level 這兩列都有預測數值,如下圖(同學操作產生的數值可能 會和講義上看到的不一樣):

Product group:	PG-DXT	R201			201 Produ	ktgruppe Deluxe To	ouring Bike	
Plant:	DL00							
Version:	A00 /	Active version				Active		
SOP: plan individual product gro	oup							
Planning Table	Un	M 2024/07	M 2024/08	M 2024/09	м 2024/10	м 2024/11	м 2024/12	
Sales	EA	657	731	806	725	698	806	
Production	EA							
Stock level	EA	-657	-1389	-2196	- 2921	- 3619	-4425	
Target stock level	EA							
Range of Coverage	•••	é .						
Target days' supply	•••							
		I< ≪		» >				

 在 Target days' supply 這一列的每一欄都輸入 5,從[當年/當月] 到 [次年/前月],共輸入 12 次(使用表格下方的>按鈕以移至後續月份),如下圖:

Product group: Plant:	: PG-DXT : DL00	R201			201 Produ	ktgruppe Deluxe To	uring Bike	
Version:	: A00 A	Active version				Active		
P: plan individual product g	roup							
lanning Table	Un	M 2024/07	M 2024/08	M 2024/09	M 2024/10	M 2024/11	M 2024/12	
ales	EA	657	731	806	725	698	806	
roduction	EA	_						
tock level	EA	-657	-1388	-2194	- 2919	- 3617	-4423	
arget stock level	EA							
tange of Coverage	•••							
'arget days' supply	•••	5	5	5	5	5	5	
		<>						

8. 在視窗上方工具列依循以下路徑 More => Edit => Create product plan => Synchronous to sales,此時 Change Rough-Cut Plan 視窗下方的 SAP 表格會更新,Stock level 列的值會消

除,Production 列各欄的值會和 Sales 列相同,如下圖:

	Product group:	PG-DX	TR201			201 Produ	iktgruppe Deluxe To	uring Bike	
	Plant:	DL00							
	Version:	A00	Active version				Active		
SOP: plan individual product group j Planning Table Un M 2024/07 M 2024/08 M 2024/09 M 2024/10 M 2024/11 M 2024/12									
	Planning Table	Un	M 2024/07	M 2024/08	M 2024/09	M 2024/10	M 2024/11	M 2024/12	
	Sales	EA	. 657	731	806	725	698	806	
	Production	EA	. 657	731	806	725	698	806	
	Stock level	EA							
	Target stock level	EA							
	Range of Coverage	••	•						
	Target days' supply	••	• 5	5	5	5	5	5	

9. 在視窗上方工具列依循以下路徑 More => Edit => Create product plan => Target days' supply,此時 Change Rough-Cut Plan 視窗下方的 SAP 表格會更新,Production 及 Stock level 這兩列的值會隨著 Sales 預測的值調整,如下圖(同學操作產生的數值可能會和講義上看到的 不一樣):

	II Characteristic 🔲 More	~							Exit
	Product group:	PG-DX1	FR201			201 Produ	ktgruppe Deluxe To	uring Bike	
	Plant:	DL00							
	Version:	A00	Active version				Active		
S	OP: plan individual product gro Planning Table	oup Un	M 2024/07	M 2024/08	M 2024/09	M 2024/10	M 2024/11	M 2024/12	
0	Sales	EA	657	731	806	725	698	806	
	Production	EA	762	742	822	707	697	819	
	Stock level	EA	105	117	134	116	116	130	
0	Target stock level	EA							
0	Range of Coverage	•••	5	5	5	5	5	5	
	Target days' supply	•••	5	5	5	5	5	5	
					>> >				
					<u> </u>				

10. 點按視窗左上方的 H Characteristic ,系統會將上面的 SOP 計畫表以以下三種圖形顯示:



11. 點按上面第一張圖的 Legend 按鈕, 會帶出圖例說明, 如下圖:

G SAP Statistics Graphics	_		×
Graphic Edit Goto Options Functions Help			
Global Options Legend			
Statistics Graphic			
For Planning Table			
250 0 Sales			
Production			
600.0			
Treat stock lavel			
300.0			
Tanget days' supply			
0.0			
AUG/24 SEP/24 OCT/24 NOV/24 DEC/24 JAN/2	5		
	10 00 07		
	20 21		
	apr	DCO	
01/30/2025 12:00:00	GBI	153 1	4/3

12. 關閉跳出的三張圖形,點按 Change Rough-Cut Plan 視窗右下方的[Save],系統回到 Change Plan: Initial Screen 視窗,左下方有依版本編號存檔訊息,如下圖:

< SAP	Change Plan: Initial Screen	
More 🗸	E	Exit
Version selection	* Product group: PG=DXTR201 * Plant: DL00	•
	Active version Inactive version	0
Plan saved un	der version number A00	

13. 以上為步驟 4。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。

● 步驟 5: Transfer SOP to Demand Management (移轉銷售與運營計畫資料至需求管理)

角色扮演:GBI公司的生產主管(Production Supervisor):Jun Lee 任務情境:將步驟4建立的銷售與運營計畫資料移轉至三款自行車產品的需求管理

 接續步驟 4,(若完成步驟 4 後已下線,請使用自己的帳號、密碼重新登入 SAP 系統),在 [Enter transaction code or command]欄中輸入 MC75 這個交易代碼。按[Enter]。(或從以下路 徑進入: Logistics => Production => SOP => Disaggregation => Transfer PG to Demand Management)

系統帶出 Transfer Planning Data to Demand Management 視窗,在 Product group 欄位輸入 【PG-DXTR###】(###是同學 SAP 帳號後三碼),Plant 欄位選擇【DL00】,Version 欄位輸入 步驟 4 取得的版本值;在 Transfer strategy and period 資料區域改點選 Prod.plan for mat. or PG members as proportion of PG,取消勾選 Invisible transfer, From 欄位為系統預設值(操作日 期),如下圖:

< SAP	Transfer Flanning Data to Demand Management	
Transfer now $More \sim$		Exit
* Product group:	FG-DXTR201	
* Plant: Version:	DL00	
Transfer strategy and perio	d	
🚫 Sales plan for material	or PG members	
 Sales plan for mat. or F 	G members as proportion of PG	
O Production plan for ma	terial or PG members	
Prod.plan for mat. or P	3 members as proportion of PG	
1	From: 2024/07/24 To:	
Invisible transfer		
Independent requirement :	specifications	
Requireme	nts type:	
✓ Active		
l.		

點按視窗左上方的 Transfer now, 系統生成 DXTR1###這款自行車的計畫獨立需求(Planned Independent Requirement, 簡稱為標題中的 Plnd Ind. Reqmts), 如下圖:

<	SAP					Plnd	Ind. Reqmts: Pla	nning Table				
	i 🕆	Compare	Î 🗐	Delete		= History 🖗 🕏	8 <u> </u>	More 🗸				E
ole	Planning s Items	start: 2024/ Schedule	07/24 Lines			Planning End:						
<	aterial	MRP Area	» v	> A	BU	Requint Segment	M 07/2024	M 08/2024	M 09/2024	M 10/2024	M 11/2024	M 12/2024
D7	XTR1201	DLOO	AG	~	EA		305	297	329	283	279	328
			AG	~								
			AG	~								
			AG	~								
			ÅG	~								
			ÅG	~								
			AG	\checkmark								
			AG	~								
			AG	~								
			ÅG	~								
			AG	~								
			ÅG	\checkmark								
			àG	1								

3. 請檢視表格內的數據,可按下表格上方的>按鈕以檢視後續月份的計畫數據。確認後,按下 視窗右下方的[Save],視窗左下方顯示第一款自行車的需求資料已儲存的訊息(Requirement saved),視窗表格內的資料並更新為DXTR2###這款自行車的計畫獨立需求。如下圖:

	AP				I	Plnd Ind. Reqmts: Pla	nning Table					
• i	P Compare	Ē	Delet	e :	= History 🗗 🛚	R 13 13 1	More ∨				E	Exit
F able It	Aanning start: 202 ems Schedu	:4/07/24 le Line:	8		Planning End:							
I<	al MRP An	>> xa V	> A	BU	Reqnint Segment	M 07/2024	M 08/2024	M 09/2024	M 10/2024	M 11/2024	M 12/2024	
DXTR2	201 DL00	AG	~	EA		229	223	247	212	209	24	б
		AG	~									
		AG	~									
		AG	~									
		AG	~									
		AG	~									
		AG	~									
		AG	~									
		AG	\checkmark									
		AG	~									
		AG	\checkmark									
		AG	~									
		AG	1									

4. 請檢視表格內的數據,確認後,按下視窗右下方的[Save],視窗左下方顯示第二款自行車的 需求資料已儲存的訊息(Requirement saved),視窗表格內的資料並更新為DXTR3###這款自 行車的計畫獨立需求。如下圖:

e ∷≣ History ∲ Planning Ead:	및 語 語 部	_ More ∨				Exit
Planning End:						
4						
BU Reqmnt Segment	M 07/2024	M 08/2024	M 09/2024	M 10/2024	M 11/2024	M 12/2024
EA	229	223	247	212	209	246 🗘
						^
	EA	EA 229	EA 229 223 Image: Section of the section	EA 229 223 247	EA	Dot Require regiment IN 072024 IN 072024 <thin 07204<="" th=""> <thin 07204<="" th=""> <thin 07204<="" th=""></thin></thin></thin>

 請檢視表格內的數據,確認後,按下視窗右下方的[Save],系統回到 Transfer Planning Data to Demand Management 視窗,視窗左下方並顯示第三款自行車的需求資料已儲存的訊息 (Requirement saved)。如下圖:

< SAP		Transfer P	Planning Data to Deman	d Management				
Transfer now More	~						Exit	
* Product gro	up: PG-DXTR201	PG-DXTR201						
* Pla Versi	ant: DL00	Plant Dallas						
Transfer strategy and p	eriod							
O Sales plan for mater	ial or PG members							
O Sales plan for mat.	or PG members as prop	ortion of PG						
 Production plan for 	material or PG membe	rs						
• Prod.plan for mat. o	r PG members as propo	rtion of PG						
🗌 Invisible transfer	From: 2024/07/2	4	To:					
Independent requireme	nt specifications							
Requir	ements type:							
Active								
Kequirement saved								

- 比較三款自行車的計畫需求數據,可知已按步驟3的比例(黑色40%、銀色30%、紅色30%) 規劃三款自行車的需求數據。
- 7. 以上為步驟 5。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。