

Oracle Applications Knowledge Sharing- Ajay Atre

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- [AOL \(1\)](#)
- [APIs \(1\)](#)
- [ATO \(1\)](#)
- [B2B \(1\)](#)
- [Back to Back \(1\)](#)
- [BI Publisher \(3\)](#)
- [Discrete Quality \(1\)](#)
- [Drop Ship \(2\)](#)
- [EDI \(1\)](#)
- [Form Personalization \(2\)](#)
- [INV \(2\)](#)
- [INV ORG \(1\)](#)
- [IR-ISO \(1\)](#)
- [IRISO \(1\)](#)
- [Modifiers \(1\)](#)
- [O2C \(1\)](#)
- [OM \(8\)](#)
- [OPM \(3\)](#)
- [OPM QUALITY \(1\)](#)
- [Order to Cash \(1\)](#)
- [P2P \(1\)](#)
- [Procure to Pay \(1\)](#)
- [Profile \(1\)](#)
- [R12 \(22\)](#)
- [RMA \(1\)](#)
- [Shell Script \(1\)](#)
- [SQL Queries \(1\)](#)
- [UNIX \(1\)](#)
- [View Output \(1\)](#)
- [WMS \(5\)](#)

Blog Archive

- [► 2015 \(2\)](#)
- [► 2013 \(1\)](#)
- [▼ 2012 \(27\)](#)
 - [► December \(2\)](#)
 - [► November \(12\)](#)
 - [▼ October \(6\)](#)
- [OPM Setup in R12](#)
- [Inventory Organization Creation in R12](#)
- [Order to Cash Cycle \(Explained in detail\)](#)
- [Procure to Pay Cycle \(Explained in detail\)](#)
- [IR ISO process \(Explained in detail\)](#)
- [Multi-Org with R12](#)
- [► September \(1\)](#)
- [► August \(3\)](#)
- [► July \(3\)](#)

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Ajay Atre

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OPM Setup in R12

Monday, October 29, 2012 by Ajay Atre

OPM Setup in R12

OPM Example

Taking an example of chocolate process manufacturing where A Finished good comprised with two ingredients as below
Finished Good- Chocolate FG
Ingredients- Chocolate Syrup and Chocolate-Water

Step#1 – Inventory Organization Parameters

Inventory - Navigation: Setup/Organizations/Parameters
Inventory Organization is a plant where the batches are produced or an organization that holds the inventory at specified locations.
Inventory organization as process manufacturing enabled

Step#2 – Inventory Item Attributes

Inventory - Navigation: Items /Master Items
Product, all the ingredients and by-products to be used for the production are defined as inventory items, [process manufacturing enabled](#) and must be assigned to the process manufacturing enabled inventory organization (ORA in this example)

Master Item (V1)

Organization: V1 Vision Operations
Item: Chocolate FG
Description: Chocolate FG- finished good [...]

Display Attributes: Master Org All

Main Inventory Bills of Material Asset Management Costing Purchasing Receiving Physical Attributes

Unit of Measure

Primary	Pounds
Tracking	Primary
Pricing	Primary
Secondary	
Defaulting	
Deviation Factor +	0 %
Deviation Factor -	0 %

Conversions: Standard Item specific Both

User Item Type: Finished good
Item Status: Active

Long Description:

Master Item (V1)

Organization: V1 Vision Operations
Item: Chocolate FG
Description: Chocolate FG- finished good [...]

Display Attributes: Master Org All

Lead Times Work In Process Order Management Invoicing **Process Manufacturing** Service Web Option

Process Quality Enabled Process Execution Enabled

Process Costing Enabled Supply Subinventory

Recipe Enabled Supply Locator

Hazardous Material Yield Subinventory

CAS Number Yield Locator

Ingredients

Master Item (V1)

Organization: V1 Vision Operations
Item: Chocolate Syrup
Description: Chocolate Syrup

Display Attributes: Master Org All

Main Inventory Bills of Material Asset Management Costing Purchasing Receiving Physical Attributes

Unit of Measure

Primary: Gallon	Conversions:
Tracking: Primary	<input type="radio"/> Standard
Pricing: Primary	<input type="radio"/> Item specific
Secondary:	<input checked="" type="radio"/> Both
Defaulting:	
Deviation Factor +: 0 %	
Deviation Factor -: 0 %	

User Item Type: Finished good
Item Status: Active

Long Description:

Master Item (V1)

Organization: V1 Vision Operations
Item: Chocolate-Water
Description: Chocolate-Water

Display Attributes: Master Org All

Main Inventory Bills of Material Asset Management Costing Purchasing Receiving Physical Attributes

Unit of Measure

Primary: Gallon	Conversions:
Tracking: Primary	<input type="radio"/> Standard
Pricing: Primary	<input type="radio"/> Item specific
Secondary:	<input checked="" type="radio"/> Both
Defaulting:	
Deviation Factor +: 0 %	
Deviation Factor -: 0 %	

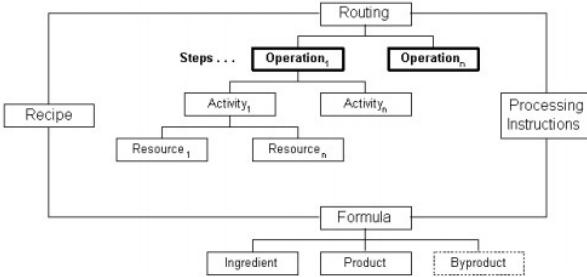
User Item Type: Finished good
Item Status: Active

Long Description:

Step#3 – Define Resources

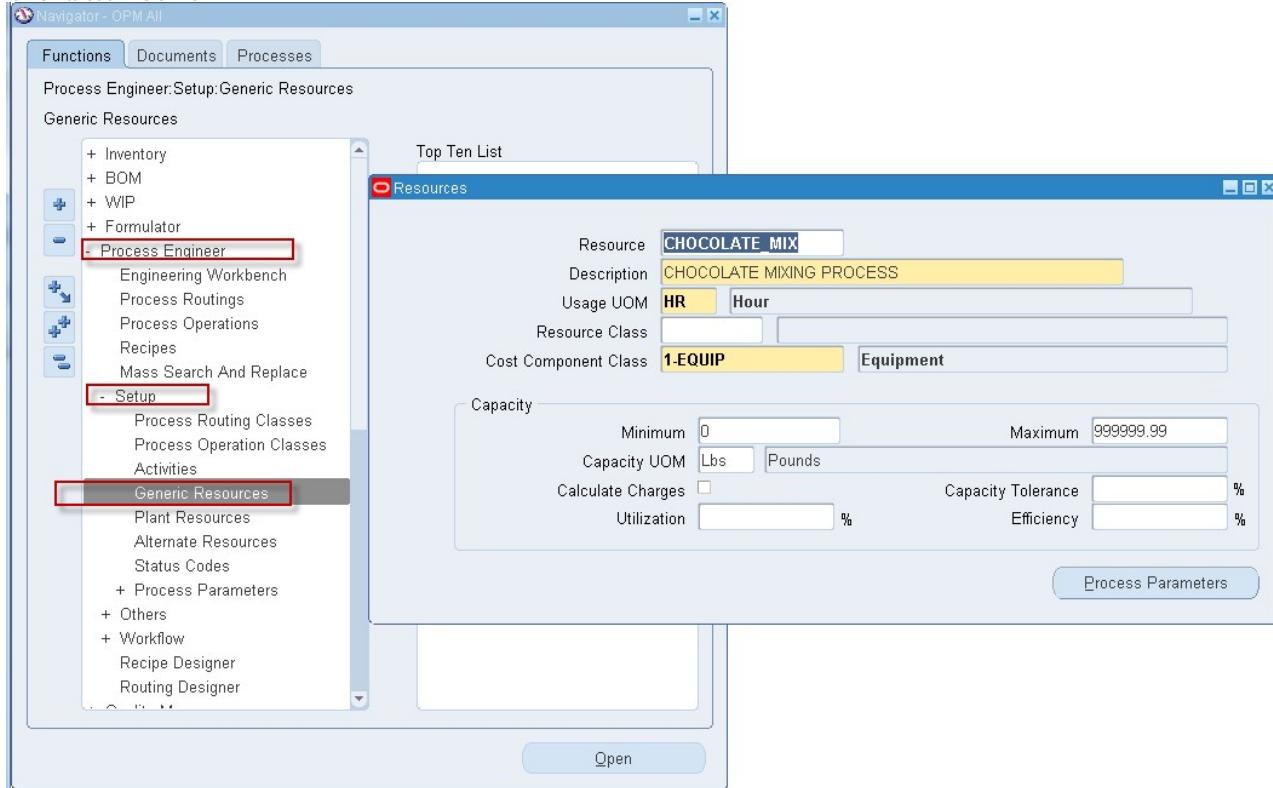
OPM ALL- Navigation: Process Engineer /Setup/Generic Resource

OPM setups can be explained as below diagram.



- Routing composed of a series of Operations organized in Steps.
- Operations composed of Activities containing Resources.
- Formula composed of Ingredient, Product, and possibly Byproduct.
- Recipe linking the Routing and Formula together with Processing Instructions

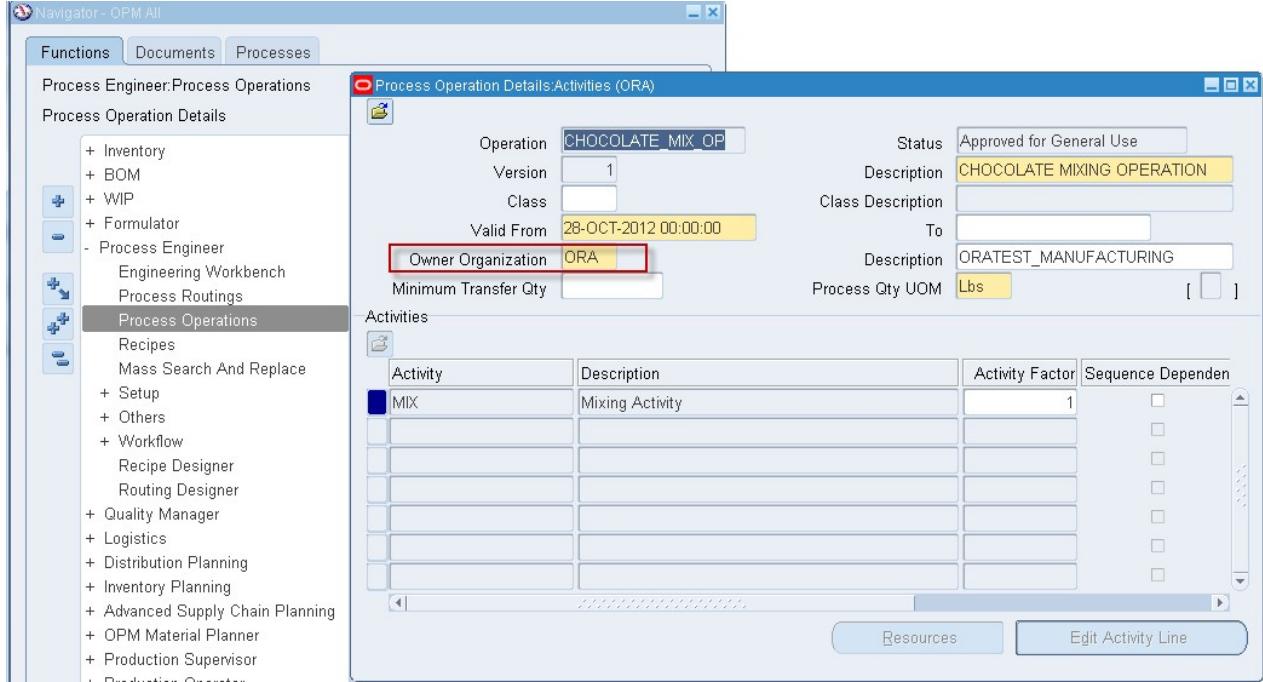
Define and maintain resources on the Operation Activity window. Resources are the assets to produce batches, including production equipment, and employee labor. You can define each resource generally, for example, OVENS, or specifically OVEN1, OVEN2 . . . OVEN n. For each resource, assign a classification code for cost management purposes. You can group resources into resource classifications, for example, group OVENS and STOVES into COOKING UNITS.



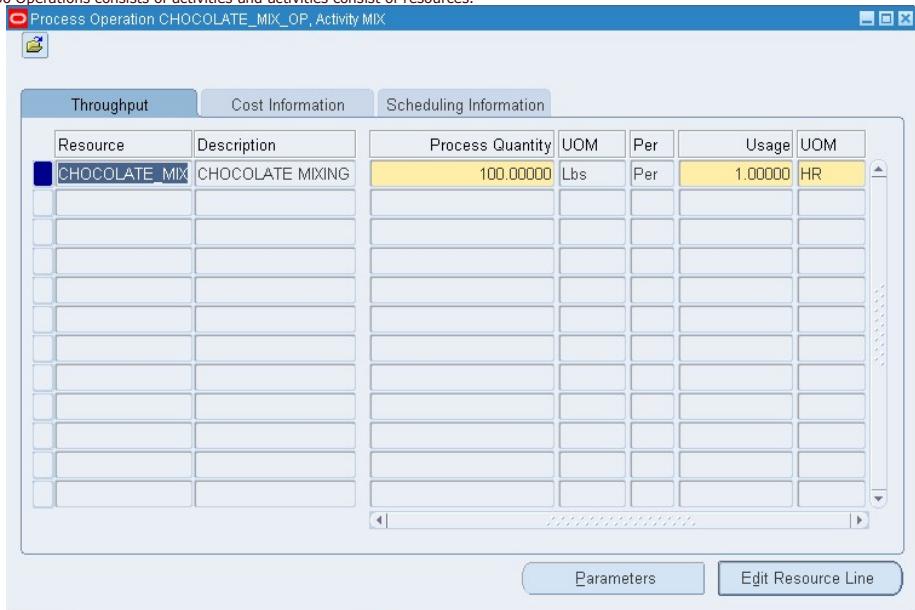
Step#4- Define Operations

OPM ALL- Navigation: Process Engineer/ Process Operations

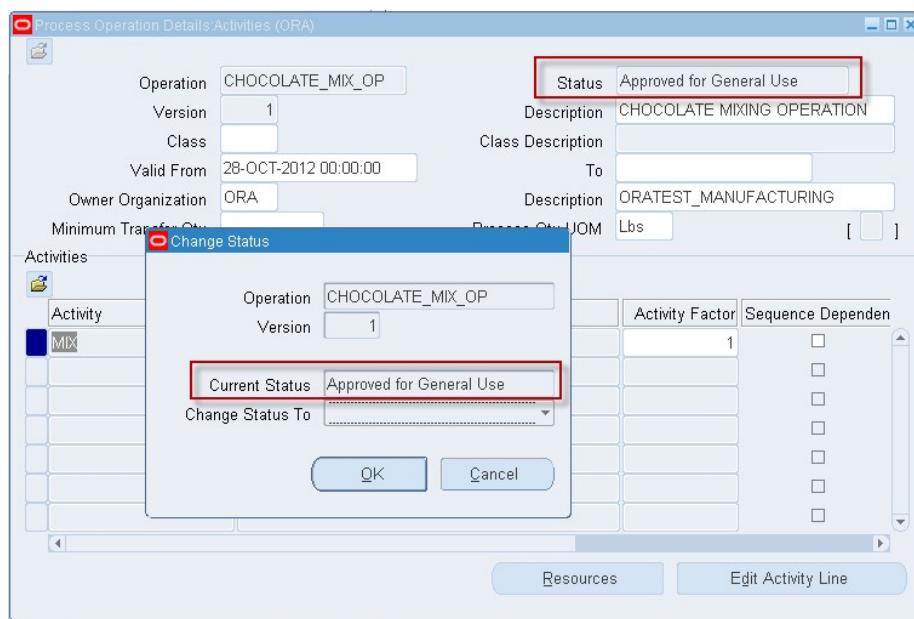
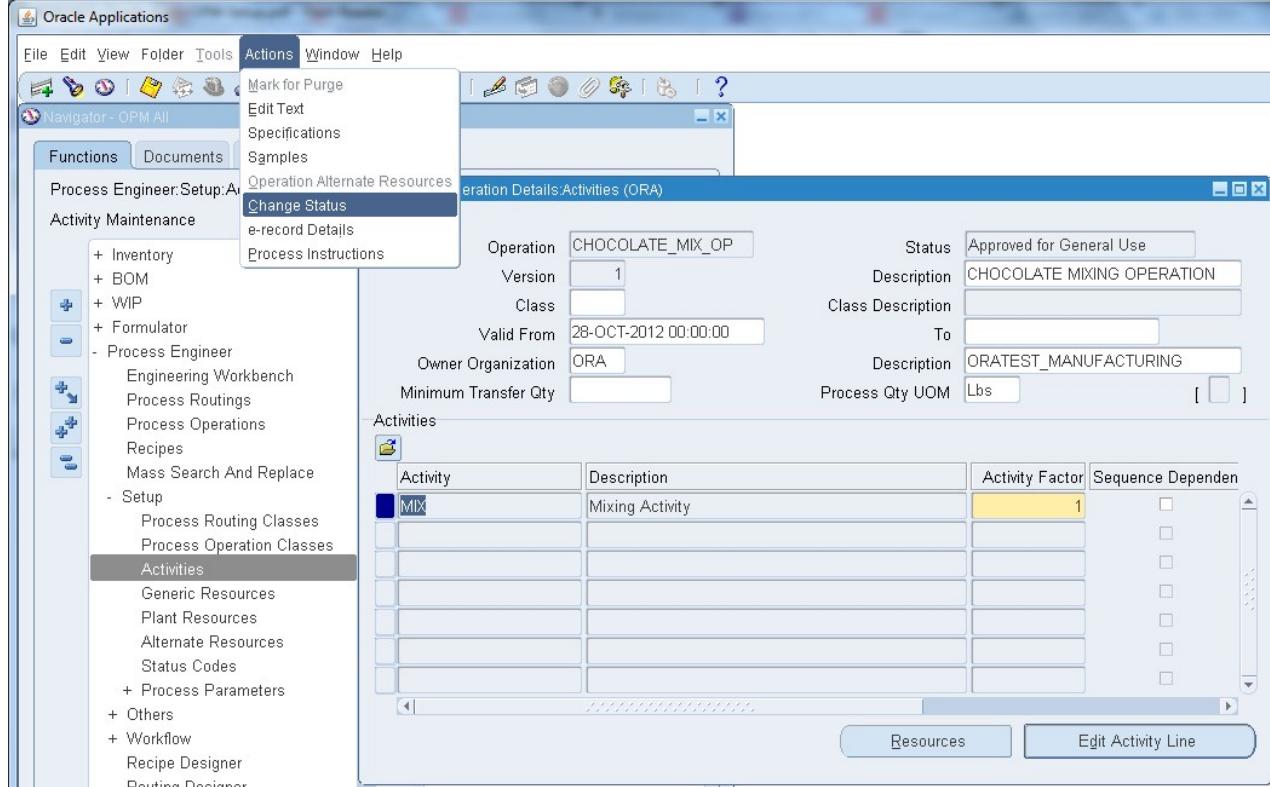
Operations are nothing but combinations of activities that are required to perform production.



Under activity you can assign related activity
And you can then tie up the resource which we created above to this activity.
So Operations consists of activities and activities consist of resources.



Change the status of the operations as approved for general use.



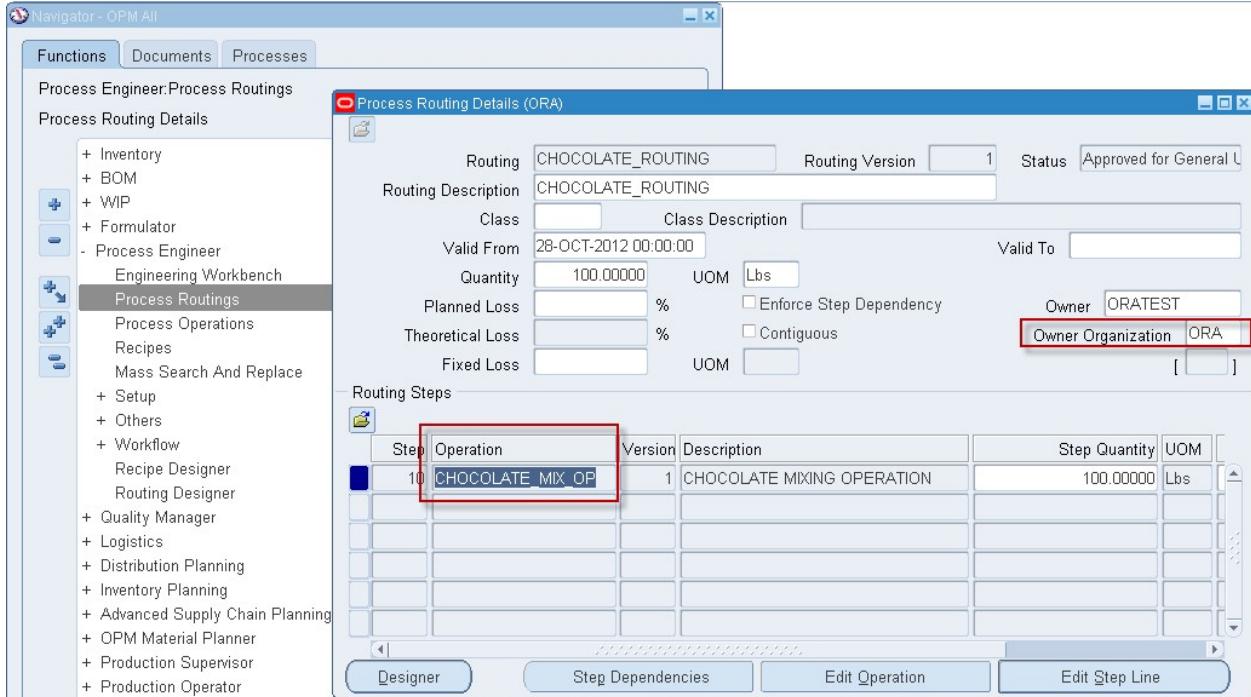
One can define multiple operations consisting of different activities like mixing rectification etc.

Step#5 – Define Routing

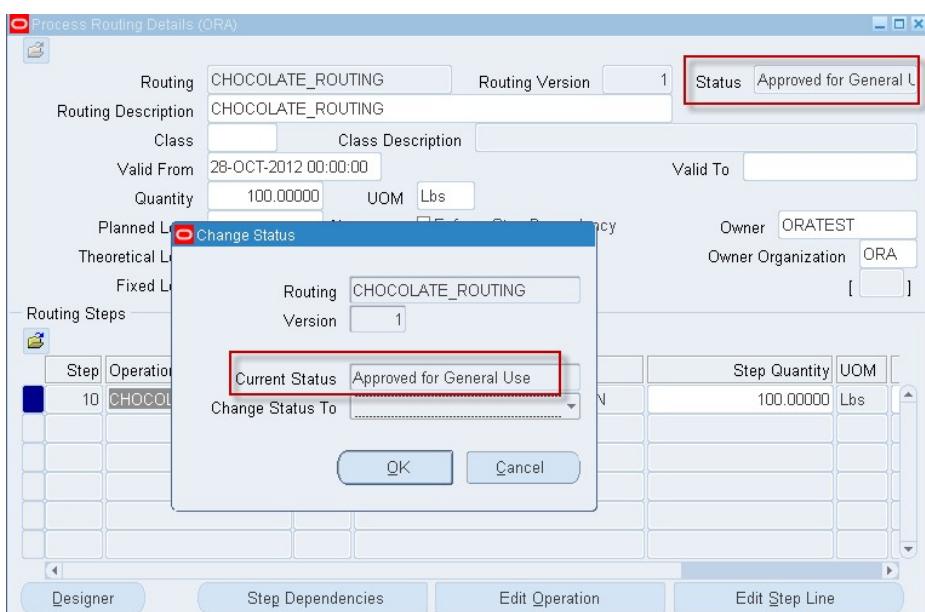
OPM ALL- Navigation: Process Engineer /Process Routings

A routing is a sequenced set of operations to perform to complete a production batch.

In this step we are creating Routing and assigning the above created operation.

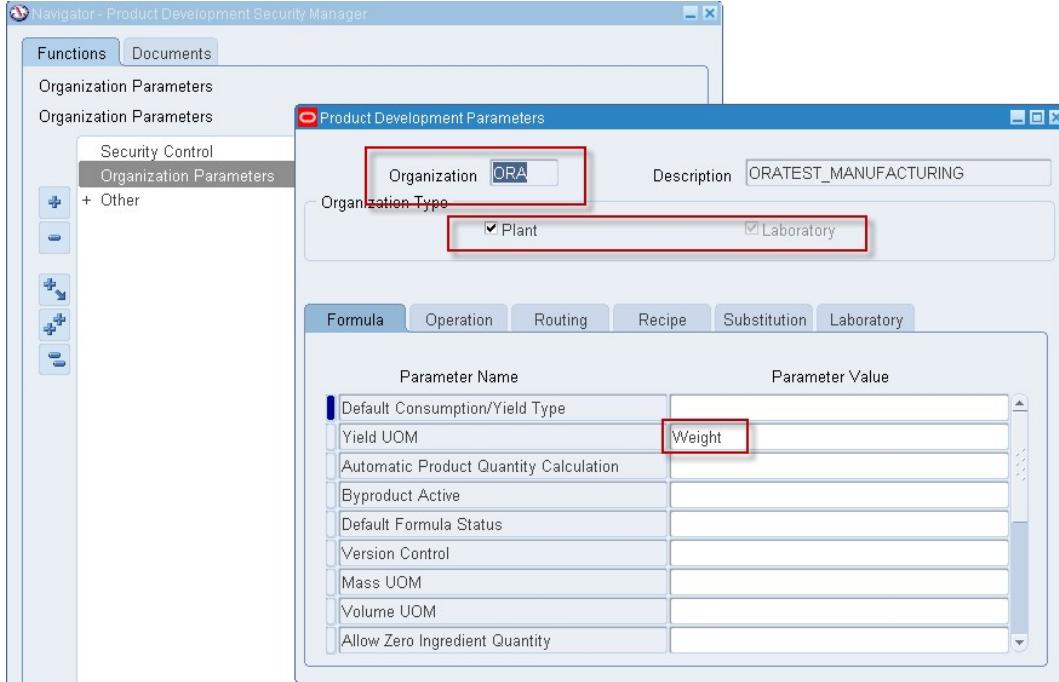


Change the status for approving it by Actions and Change Status.
Once changed from new to approved for general use you will see status changed as below.



Step#6 – Define organization as plant and/laboratory

Product Development Security Manager- Navigation: Organization Parameters



In the Yield UOM field. This is UOM of final output product.

Step#7 – Define Formula

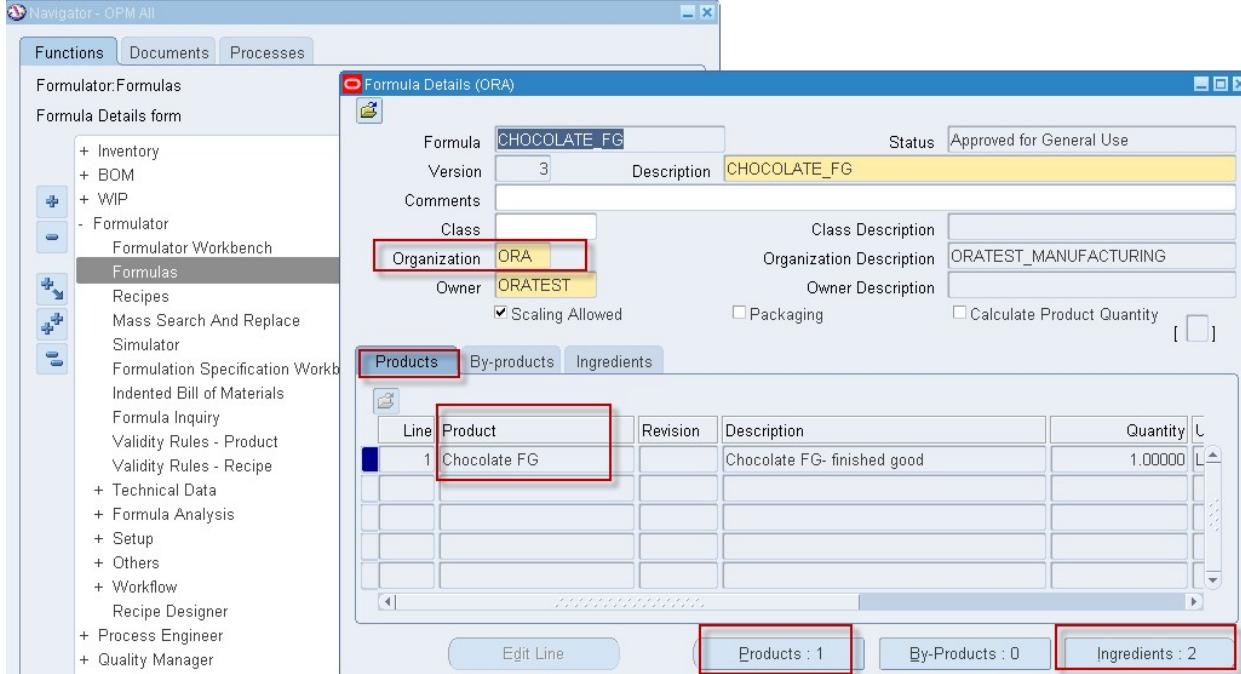
OPM ALL- Navigation: Formulator/Formulas

In formula you can decide things like Finished Good would need what kind of ingredient and what will be by product.

In this example

I am making Chocolate as Finished Good and ingredients will be Chocolate Syrup and Chocolate Water (all are process manufacturing enabled Inventory items)

And no By-Product



Formula Details (ORA)

Formula	CHOCOLATE_FG	Status	Approved for General Use																				
Version	3	Description	CHOCOLATE_FG																				
Comments																							
Class		Class Description																					
Organization	ORA	Organization Description	ORATEST_MANUFACTURING																				
Owner	ORATEST	Owner Description																					
<input checked="" type="checkbox"/> Scaling Allowed		<input type="checkbox"/> Packaging	<input type="checkbox"/> Calculate Product Quantity []																				
<input type="button" value="Products"/> <input type="button" value="By-products"/> <input style="border: 2px solid red; border-radius: 5px; padding: 2px; margin-left: 10px;" type="button" value="Ingredients"/>																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Line</th> <th>Ingredient</th> <th>Revision</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Chocolate Syrup</td> <td></td> <td>Chocolate Syrup</td> <td>.50000</td> </tr> <tr> <td>2</td> <td>Chocolate-Water</td> <td></td> <td>Chocolate-Water</td> <td>.50000</td> </tr> <tr> <td colspan="5"> <input type="button" value="Edit Line"/> <input type="button" value="Products : 1"/> <input type="button" value="By-Products : 0"/> <input type="button" value="Ingredients : 2"/> </td> </tr> </tbody> </table>				Line	Ingredient	Revision	Description	Quantity	1	Chocolate Syrup		Chocolate Syrup	.50000	2	Chocolate-Water		Chocolate-Water	.50000	<input type="button" value="Edit Line"/> <input type="button" value="Products : 1"/> <input type="button" value="By-Products : 0"/> <input type="button" value="Ingredients : 2"/>				
Line	Ingredient	Revision	Description	Quantity																			
1	Chocolate Syrup		Chocolate Syrup	.50000																			
2	Chocolate-Water		Chocolate-Water	.50000																			
<input type="button" value="Edit Line"/> <input type="button" value="Products : 1"/> <input type="button" value="By-Products : 0"/> <input type="button" value="Ingredients : 2"/>																							

Change the status for approving it by Actions and Change Status.
Once changed from new to approved for general use you will see status changed as below

Formula Details (ORA)

Formula	CHOCOLATE_FG	Status	Approved for General Use
Version	3	Description	CHOCOLATE_FG
Comments			
Class		Class Description	
Organization	ORA	Organization Description	ORATEST_MANUFACTURING
Owner		Owner Description	
<input type="button" value="Products"/> <input type="button" value="By-products"/> <input type="button" value="Ingredients"/>			
<div style="border: 1px solid red; padding: 5px; width: fit-content;"> <input style="border: none; background-color: inherit; color: inherit; font-size: inherit; font-weight: inherit; margin-bottom: 5px;" type="button" value="Change Status"/> <div style="border: 1px solid red; padding: 2px; display: inline-block;">Current Status</div> Approved for General Use </div>			
<div style="border: 1px solid red; padding: 5px; width: fit-content;"> <div style="border: 1px solid red; padding: 2px; display: inline-block;">Change Status To</div> <input style="width: 150px;" type="text"/> <input type="button" value="OK"/> <input type="button" value="Cancel"/> </div>			
<input type="button" value="Edit Line"/> <input type="button" value="Products : 1"/> <input type="button" value="By-Products : 0"/> <input type="button" value="Ingredients : 2"/>			

Step#7 – Define Recipe

OPM ALL- Navigation: Formulator/Recipe

Recipes standardize the structure of all information that describes production of one or more products. Recipes have:

- Formulas that define the relationship of material resources, including products, ingredients, and byproducts.
- Routings that define the relationships of nonmaterial resources, including labor and equipment operations with activities and their associated resource. Routings are optional.
- Processing instructions that encompass the work instructions needed to produce the products.

Formulas and routings are built independently. They are linked using a Recipe that has validity rules. Different formulas can use the same routing, or one formula can be associated to several different routings.

Navigator - OPM All

Functions Documents Processes

Formulator:Recipes

Recipe Details (ORA)

Recipe CHOCOLATE_FG_RECEIPE Version 3 Status Approved for General Use

Description CHOCOLATE_FG_RECEIPE

Product	Chocolate FG	Quantity	1.00000	UOM Lbs
Formula	CHOCOLATE_FG	Version	3	Creation Organization ORA
Routing	CHOCOLATE_ROUTING	Version	1	Owner Organization ORA

Planned Loss Theoretical Loss Fixed Loss Total Output Qty 1.00000 UOM Lbs

Plant/Laboratory Customer Step Quantity

Organization	Organization Name	Type	Planned Loss	Fixed Loss	Fixed L	Contiguous
ORA	ORATEST_MANUFACTURING	Plant	.00000	.00000	Lbs	<input type="checkbox"/>

Designer Organization Details Validity Rules Step/Material Association

Open

Click on Validity Rules and enter organization name

Recipe (CHOCOLATE_FG_RECEIPE, 3): Validity Rule Details

Formula CHOCOLATE_FG Version 3 Description CHOCOLATE_FG

Routing CHOCOLATE_ROU Version 1 Description CHOCOLATE_ROUTING

Status Approved for General Use

Organization ORA ...

Organization Description ORATEST_MANUFACTURING

Validity Rule Step Quantity

Recipe Use	Production	Revision
Product	Chocolate FG	
Description	Chocolate FG-finished good	
Preference	1	

Quantities

Standard	1.00000	UOM Lbs
Minimum	.00000	
Maximum	999999.00000	

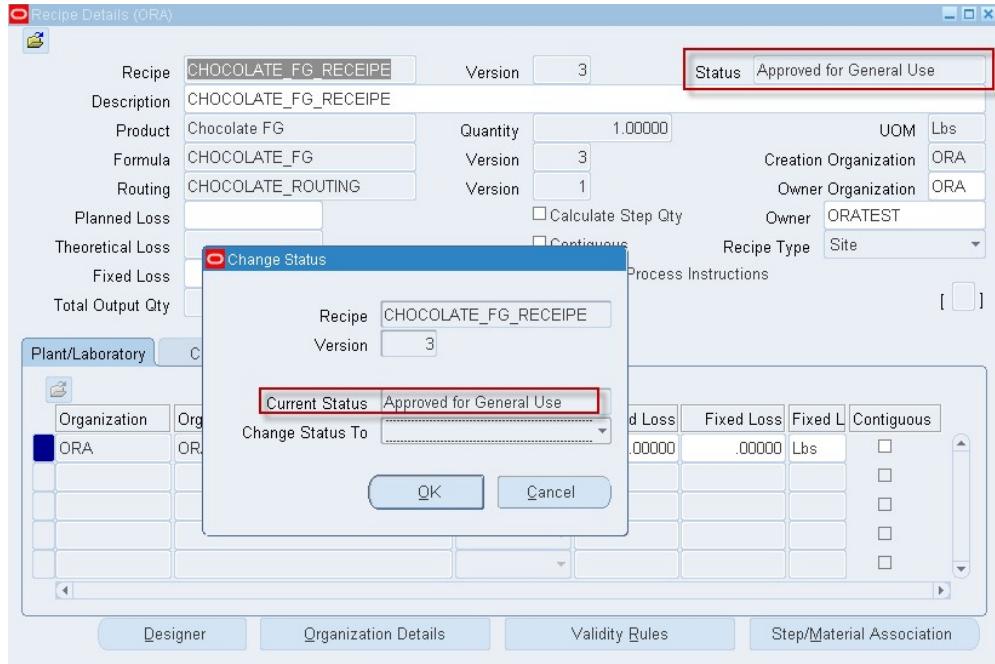
Process Loss

Theoretical	
Planned	
Fixed	
UOM	

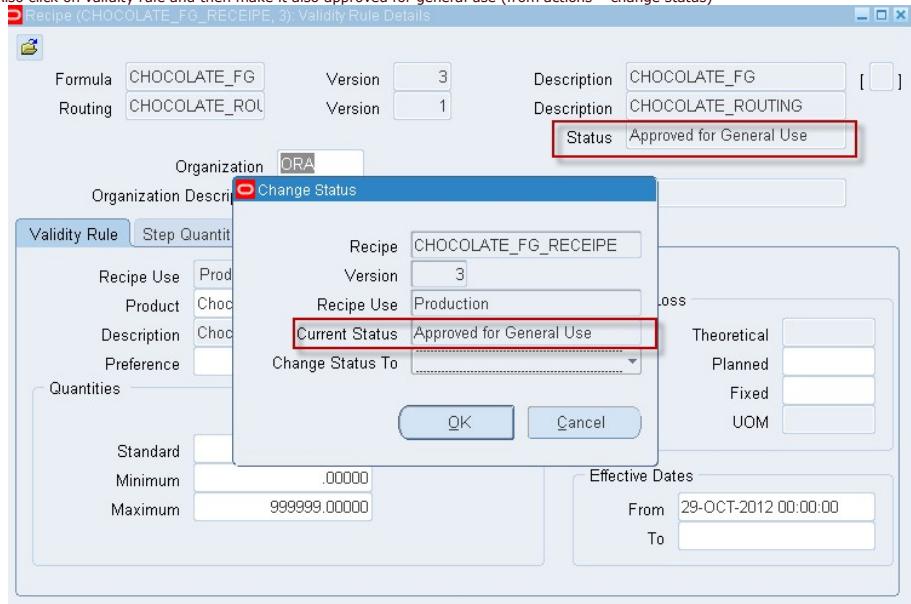
Effective Dates

From	29-OCT-2012 00:00:00
To	

Make it approved for general use (from actions - change status)

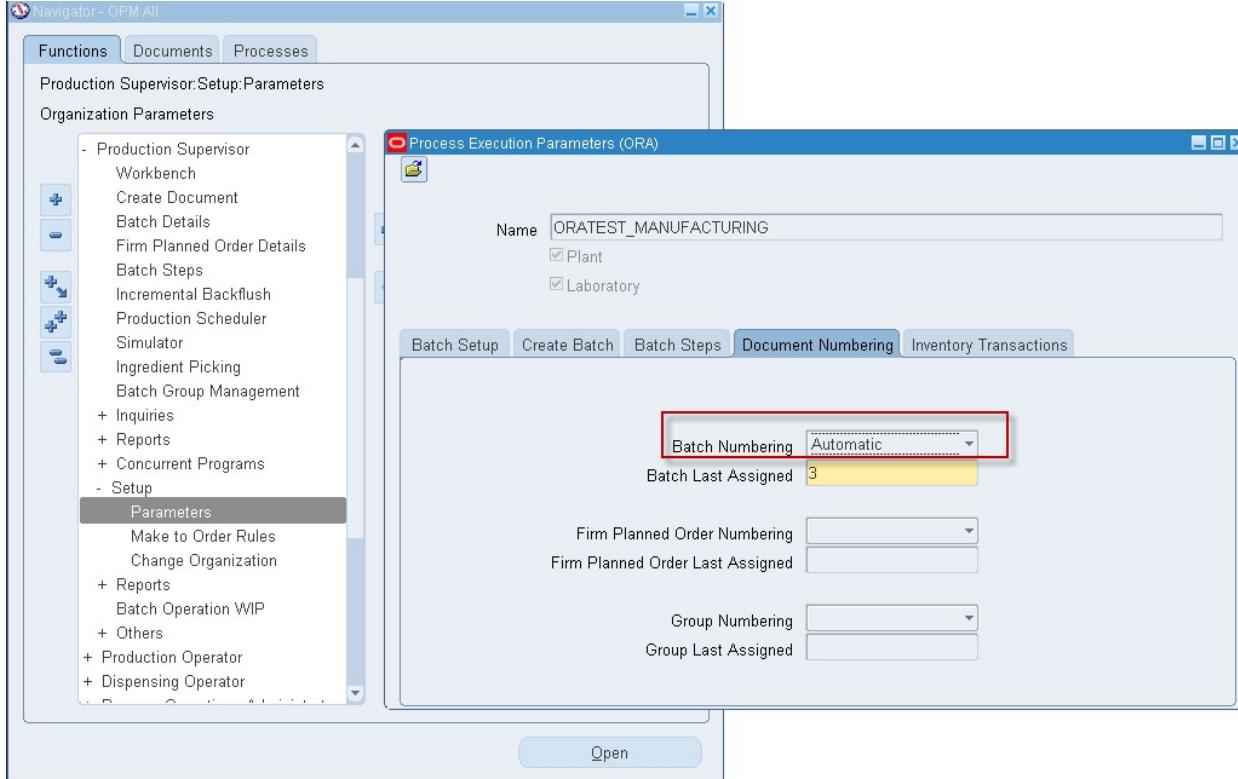


Also click on validity rule and then make it also approved for general use (from actions – change status)

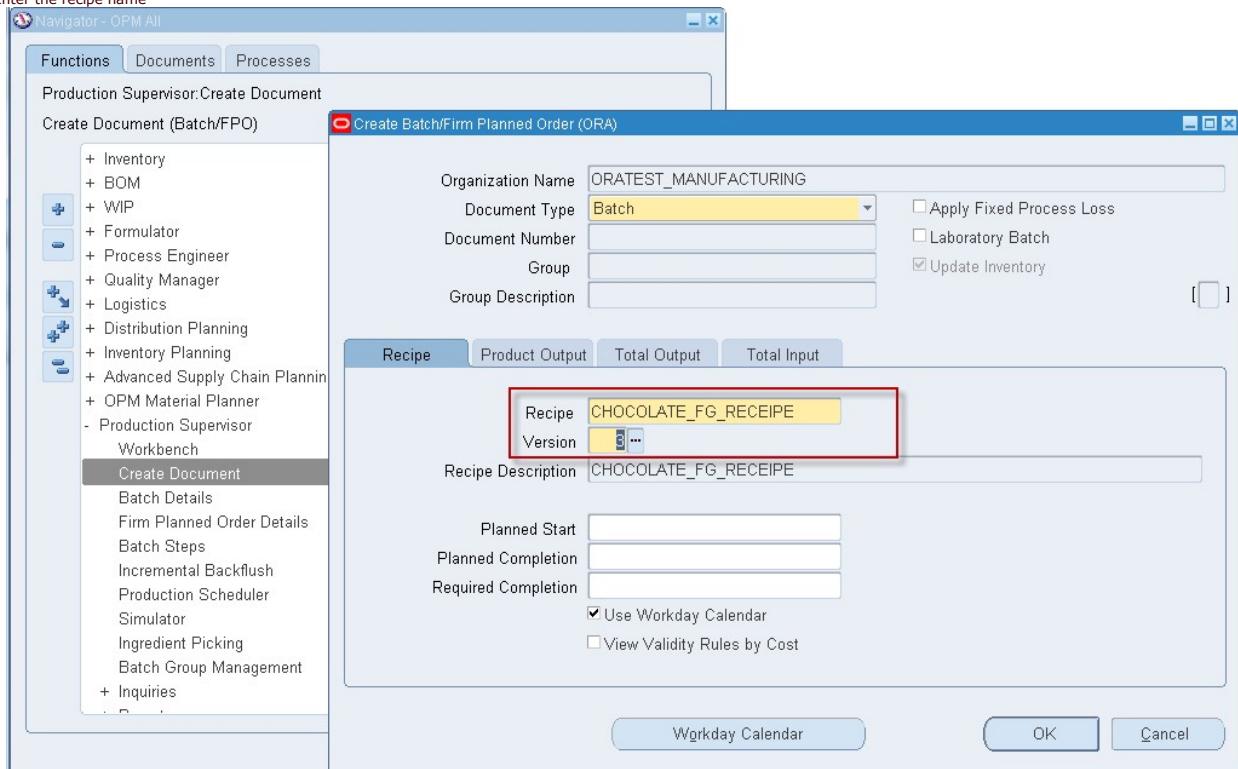


Step#8 – Batch Numbering

OPM ALL- Navigation: Production Supervisor/Setup/Parameter
This will put the batch creation sequence to automatic.

**Step#9 – Batch Creation**

OPM ALL- Navigation: Production Supervisor/Create Document
Enter the recipe name



Under product output tab enter the product and product qty for the batch needs to created.

Create Batch/Firm Planned Order (ORA)

Organization Name	ORATEST_MANUFACTURING	<input type="checkbox"/> Apply Fixed Process Loss
Document Type	Batch	<input type="checkbox"/> Laboratory Batch
Document Number		<input checked="" type="checkbox"/> Update Inventory
Group		[]
Group Description		
<input type="radio"/> Recipe <input checked="" type="radio"/> Product Output <input type="radio"/> Total Output <input type="radio"/> Total Input		
Product: Chocolate FG Product Description: Chocolate FG- finished good Revision: <input type="text"/> Product Quantity: 10.00000 UOM: Lbs Description: Pounds Planned Start: <input type="text"/> Planned Completion: <input type="text"/> Required Completion: <input type="text"/> <input checked="" type="checkbox"/> Use Workday Calendar <input type="checkbox"/> View Validity Rules by Cost		
Workday Calendar		<input type="button" value="OK"/> <input type="button" value="Cancel"/>

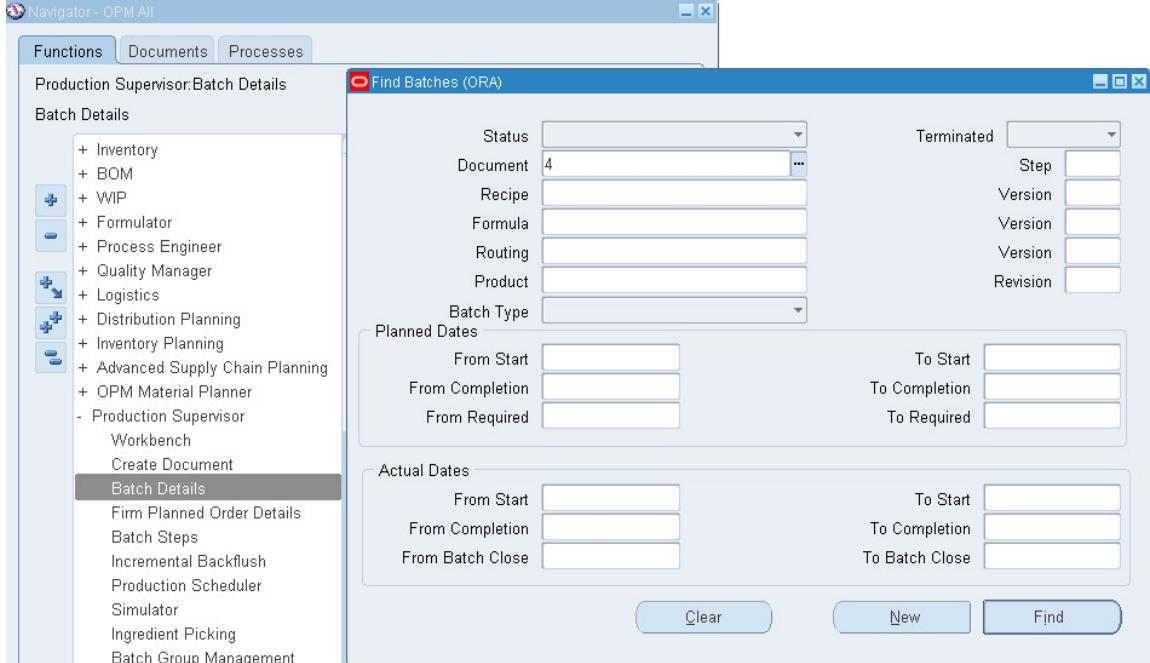
Click ok and note the batch number

Create Batch/Firm Planned Order (ORA)

Organization Name	ORATEST_MANUFACTURING	<input type="checkbox"/> Apply Fixed Process Loss
Document Type	Batch	<input type="checkbox"/> Laboratory Batch
Document Number	4	<input checked="" type="checkbox"/> Update Inventory
Group		[]
Group Description		
<input type="radio"/> Recipe <input checked="" type="radio"/> Product Output <input type="radio"/> Total Output <input type="radio"/> Total Input		
Product: Chocolate FG Product Description: Chocolate FG- finished good Revision: <input type="text"/> Product Quantity: 10.00000 UOM: Lbs Description: Pounds Planned Start: 29-OCT-2012 12:53:43 Planned Completion: 29-OCT-2012 12:59:43 Required Completion: 29-OCT-2012 12:59:43 <input checked="" type="checkbox"/> Use Workday Calendar <input type="checkbox"/> View Validity Rules by Cost		
Workday Calendar		<input type="button" value="OK"/> <input type="button" value="Cancel"/>

Step#10 – Viewing the Batch

OPM ALL- Navigation: Production Supervisor/Batch details
 Use the above created batch and click find



Batch would be visible as

We created batch for 10 qty and per formula it will take two ingredients and according to formula plan qty it will

show the wip plan qty

Note – as an when we transact material the actual qty will get updated.

Line	Item	Item Description	Revision	Original Qty	Planned Qty	Reserved Qty	UOM	Consumption Type
1	Chocolate Syrup	Chocolate Syrup		5.00000	5.00000	.00000	GAL	Automatic
2	Chocolate-Water	Chocolate-Water		5.00000	5.00000	.00000	GAL	Automatic

The screenshot shows the 'Batch Details (ORA)' window. In the 'Main' tab, the document number is 4, the recipe is CHOCOLATE_FG_RECEIPE, and the planned start date is 29-OCT-2012 12:53:43. The status is Pending. In the 'Products' tab, there is one row for 'Chocolate FG' with a quantity of 10.00000. The 'Planned Qty' and 'Allocated Qty' columns both contain the value 10.00000. The 'UOM' column shows .00000 and 'Yield Type' shows Automatic. Below the grid are buttons for Move Order, Picking, Pending Lots, Transact Material, Steps, and Apply Fixed Process Loss.

Step#11 -Release the Batch

OPM ALL- Navigation: Production Supervisor/Batch details
Use the above created batch and click find

Batch goes through below different status

Description	Status	Notes
Initial creation	Pending	
Cancel the batch	Cancelled	
Release the batch	WIP	Can revert back to Pending
Complete the batch	Completed	Can revert back to WIP- Caution- can lose the material transactions
Close the batch	Closed	Final Close can't revert back

From Actions – release the batch

It will show you actual start date to release the batch click ok and click proceed, once released note the status of the batch it will be WIP.

Once released then only you can assign the material transactions against the ingredients and finished good.

Step#12 –Process the Batch

OPM ALL- Navigation: Production Supervisor/Batch details

Use the above created batch and click find, make sure it's in WIP

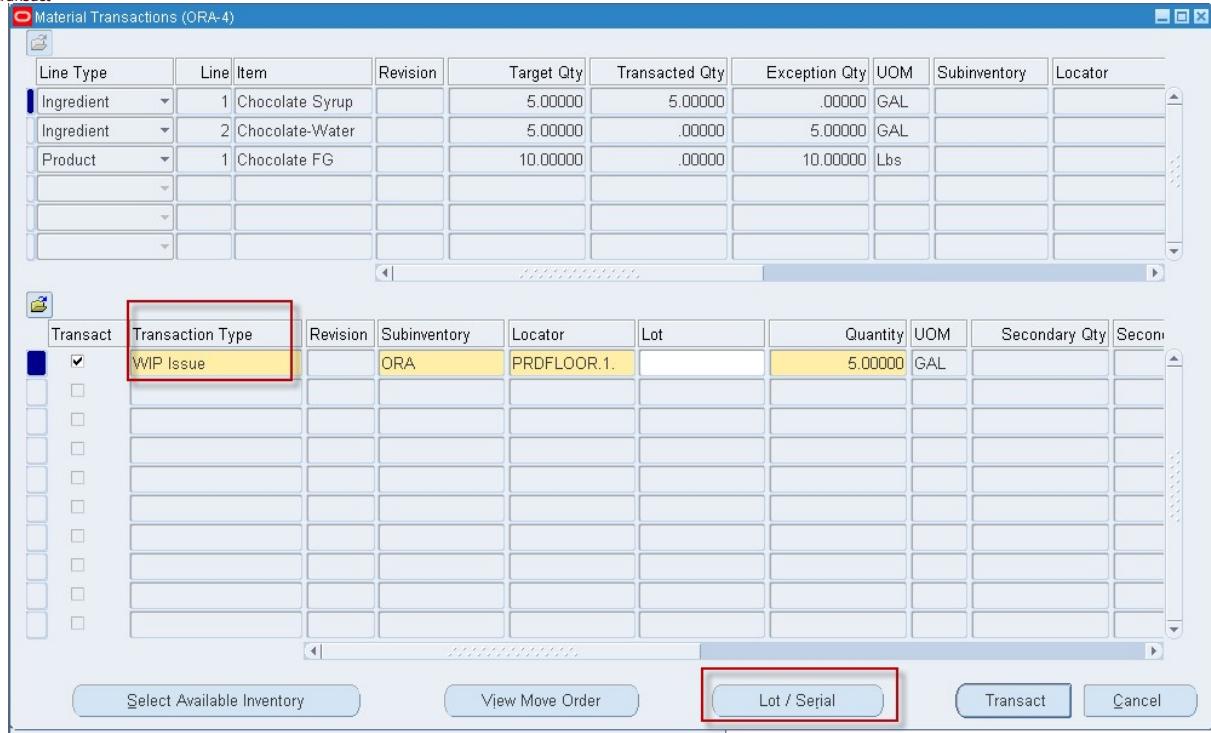
Click on transact material

Please note – when you do the transact material you will have below transaction types depending upon ingredient or finished good.

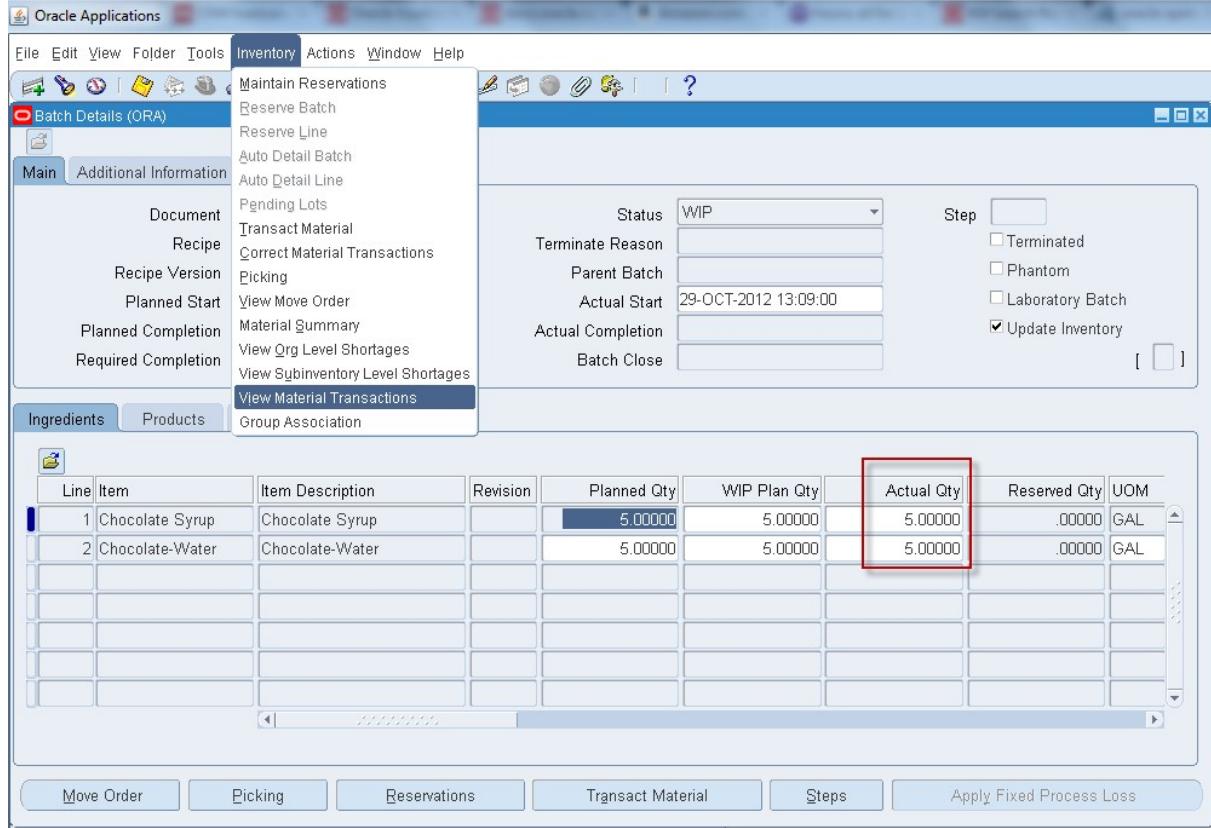
Transaction type	Item type
Wip issue	Ingredient
Wip Completion	Finished Good

As we are processing the batch I have created inventory available for ingredients by [Inventory – transactions-miscellaneous transactions- miscellaneous receipt](#).

Click on the ingredient and select the transaction type, enter subinventory, locator and Lot information and click transact.



As soon as you transact the material you can see the actual quantity reflected.



To view the material transacted you can look by [Inventory – view Material transactions](#)

View Material Transactions (ORA4)

Line Type	Line Item	Revision	Target Qty	Transacted Qty	Exception Qty	UOM	Subinventory	Locator
Ingredient	1 Chocolate Syrup		5.00000	5.00000	.00000	GAL		
Ingredient	2 Chocolate-Water		5.00000	5.00000	.00000	GAL		
Product	1 Chocolate FG		10.00000	.00000	10.00000	Lbs		
...								
...								
...								
...								
...								
...								

Transact Transaction Type Revision Subinventory Locator Lot Quantity UOM Secondary Qty Secondary
WIP Issue ORA PRDFLOOR.1... L1 5.00000 GAL

Select Available Inventory View Move Order Lot / Serial OK Cancel

Lot Entry (ORA)

Item	Chocolate Syrup	Chocolate Syrup	Secondary UOM
Revision		UOM	GAL
Subinventory	ORA	Quantity	5
Locator	PRDFLOOR.1.	Lot Quantity Entered	5
Secondary Quantity			
Secondary Lot Quantity Entered			

Lot Numbers

Parent Lot Number	Lot Number	Expiration Date	Quantity	Assembly Lot Number
	L1	06-FEB-2013 08:33:57	5	

Quantity Available 997.5 Secondary Quantity Available
Quantity On-Hand 997.5 Secondary Quantity On-Hand

Generate Parent Generate Lot Serial Cancel Done

Transacting the Finished Good
Follow same steps and complete the transaction for Finished Good. The transaction will be Wip Completion.

Material Transactions (ORA-4)

Line Type	Line	Item	Revision	Target Qty	Transacted Qty	Exception Qty	UOM	Subinventory	Locator
Ingredient	1	Chocolate Syrup		5.00000	5.00000	.00000	GAL		
Ingredient	2	Chocolate-Water		5.00000	5.00000	.00000	GAL		
Product	1	Chocolate FG		10.00000	10.00000	.00000	Lbs		

Transaction Details

Transact	Transaction Type	Revision	Subinventory	Locator	Lot	Quantity	UOM	Secondary Qty	Second
<input checked="" type="checkbox"/>	WIP Completion		ORA	PRDFLOOR.1.		10.00000	Lbs		

Action Buttons

- Select Available Inventory
- View Move Order
- Lot / Serial
- Transact
- Cancel

If you look by Inventory –Material transactions, it will show the same transactions which we were looking from above window.

HC Account View

Location	Intransit	Reason, Reference	Transaction ID	Transaction Type	Consumption Advice	Lc
Item	Subinventory	Patient Account	Transaction Quantity	UOM	Transaction Type	Lc
Chocolate FG	ORA		10	Lbs	WIP Completion	Pf
Chocolate Syrup	ORA		-5	GAL	WIP Issue	Pf
Chocolate-Water	ORA		-5	GAL	WIP Issue	Pf

Step#12 -Complete the Batch

OPM ALL- Navigation: Production Supervisor/Batch details

Make sure all ingredients are transacted and finished good is recorded, you can complete the batch using actions- complete the batch.

The screenshot shows the Oracle Applications Production Supervisor - Batch Details window. The main panel displays a table of ingredients for a batch. The top right section shows the following details:

Status	WIP
Terminate Reason	
Parent Batch	
Actual Start	29-OCT-2012 13:09:00
Actual Completion	
Batch Close	

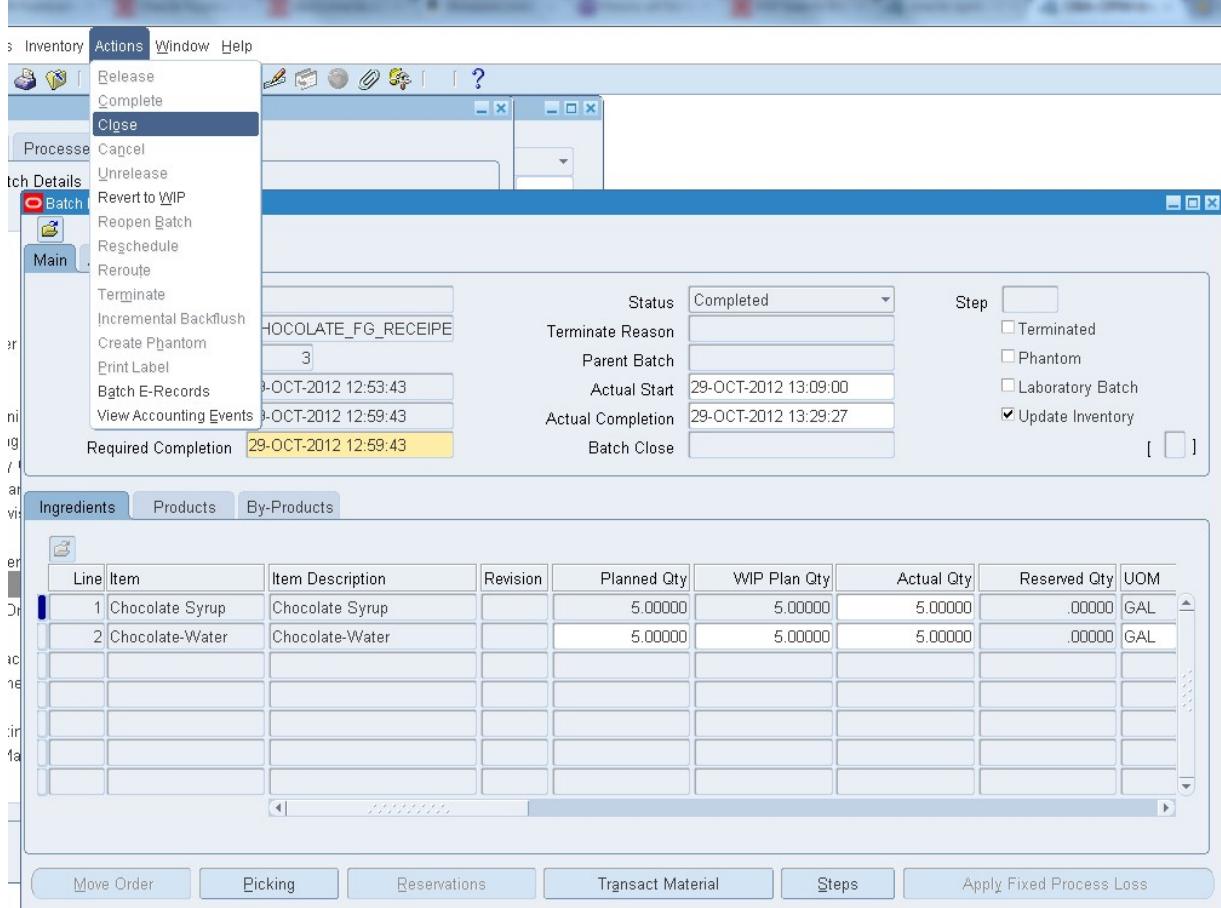
On the right, there are checkboxes for Step (Terminated, Phantom, Laboratory Batch) and Update Inventory (checked). Below the table are buttons: Move Order, Picking, Reservations, Transact Material, Steps, and Apply Fixed Process Loss.

It will ask you the actual completion date click ok and complete the batch

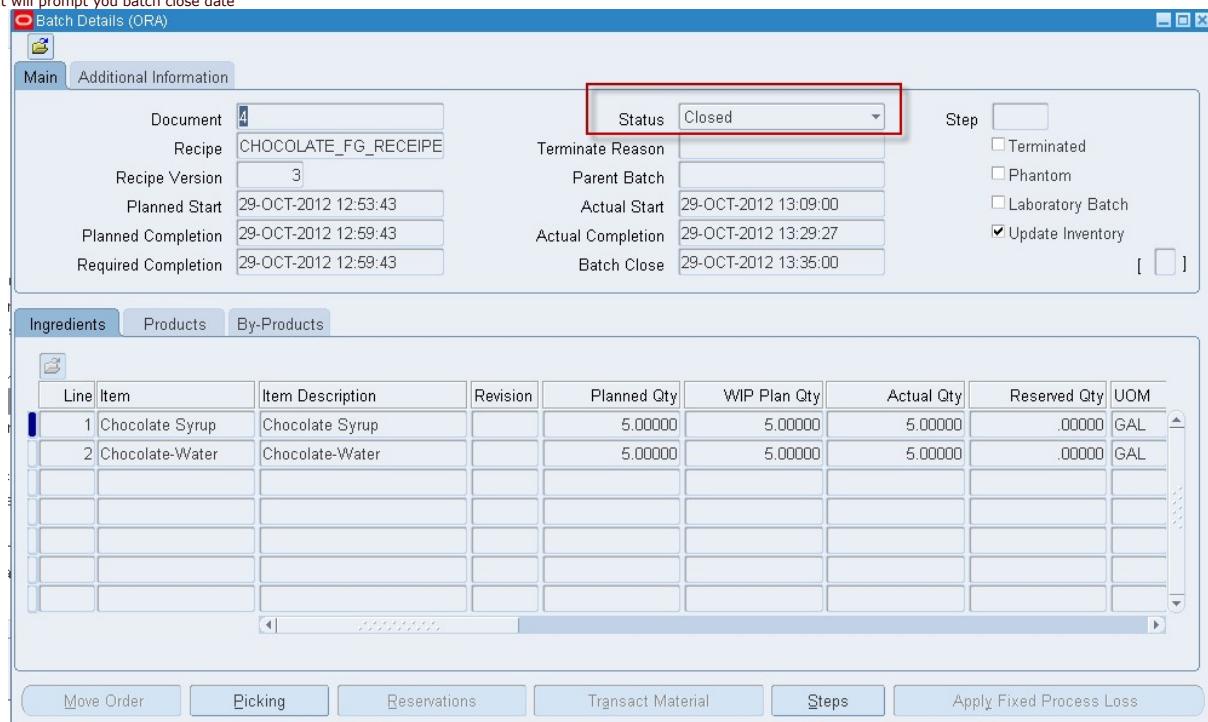
The screenshot shows the Oracle Applications Production Supervisor - Batch Details window. The status has been changed to "Completed". The rest of the fields remain the same as in the previous screenshot.

Step#13 –Close the Batch

OPM ALL- Navigation: Production Supervisor/Batch details
Make sure batch is completed. Click on actions- close



It will prompt you batch close date



This explains the full flow from start to end towards process manufacturing production.

Thanks,
Ajay

Filed under OPM, R12 having

19 comments:

Muralikrishna Rao Mitnala said...

Dear Mr.Ajay, very good article.Thanks for sharing this workflow and highly appreciated your efforts to end user actions.
Regards,Rao
mkrao.mitnala@gmail.com
skype: muralikrishna.rao

June 23, 2013 at 1:02 AM
Anonymous said...

Dear Ajay, Kudos for your effort. Really appreciate it a lot.

July 4, 2013 at 6:23 AM
Simon Paul said...

モンクレール ダウン 人気NO.1激安通販専門サイト! モンクレール 買取実績NO.1。サービス利用者1万人突破！ 割引率80%以上！ モンクレール サイズ良い品質、100%満足保証。モンクレール ダウンから2012年最新作が続々入荷中! <http://www.monclerdown-japan.com/>

July 22, 2013 at 8:58 PM
Amit Srivastava said...

This is the best document I ever seen in internet on OPM>

August 1, 2013 at 10:55 AM
Anonymous said...

The document was created after lot of efforts; showing the real sincerity to the community.
Mr. Ajay - thank you very much.

Regards,
Anwar - Karachi

September 14, 2013 at 12:34 AM
Anonymous said...

Very useful article. Thanks

February 24, 2015 at 4:41 AM
FAIZ ALAM said...

This is the best document i have seen.

Also i like to see the document which show how batch will reflect to GL and what are the seeded request we need to run

June 11, 2015 at 10:59 PM
Panuganti Venkatesh said...

Updateszone

October 6, 2015 at 4:17 AM
Anonymous said...

Congrats for your great effort and this definitely helps the consultants who are aspiring to know and become conversant in OPM.

Regards,
Jayagopal

January 6, 2016 at 10:59 PM
Anjali Duth said...

Info in the article is very useful

Latest Govt Jobs

August 26, 2016 at 3:30 AM
jowdjbrown said...

Going to graduate school was a positive decision for me. I enjoyed the coursework, the presentations, the fellow students, and the professors. And since my company reimbursed 100% of the tuition, the only cost that I had to pay on my own was for books and supplies. Otherwise, I received a free master's degree. All that I had to invest was my time.USB名入れ

April 3, 2017 at 10:57 PM
mohan said...

Very good article with screen shots. Pictures along with explanations makes understanding and remembering the process very easy.

April 24, 2017 at 2:34 AM
Abdul Rehman said...

Really Nice Post Ajay...
But there is an issue that pics under Step#9 & 10 are not appearing. Please check & rectify.

Regards,
Abdul Rehman.

June 30, 2017 at 10:40 PM
Mansoor Maududi said...

Very Good explained docs

Thanks

September 19, 2017 at 2:41 PM
suma Latha said...

Great Site, The Course were so simple and easy to understand. I would surely recommend it to others who are also looking to learn Oracle Course for Development.

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March 30, 2018 at 12:30 AM
jeevitha Devendla said...

Thanks for the given information you are providing content very useful to users.
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Udemy.

Hurry-Up Enroll Now and get Free Access to the Entire Course

April 6, 2018 at 12:02 AM
Akshay Wagh said...

hi,

Please provide the document for how to create Phantom batches and incremental backflush batches

Thanks in Advance

April 11, 2018 at 3:10 AM
calfre 010 said...

Thanks for your given information.[Oracle Apps Technical Training in Hyderabad](#)

May 7, 2018 at 9:47 PM
calfre 010 said...

Nice blog,Thanks for your information sharing.[Oracle HRMS Training in Ameerpet](#)

May 16, 2018 at 12:22 AM

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