Following these best practices cannot guarantee a successful project but they will provide a better chance of success.

Disregarding these best practices will almost certainly lead to project failure.

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i. About Lecturer

Sherif Abdel Baset Mohammed Sr. Systems Specialist

B.S.C. Civil Engineer

Higher Diploma in Construction Management
Thesis "Study of the financial structural of Contracting Companies"

Project Management Course
Using - Level 1
Primavera

ii. Agenda

Agenda

3 days Course

Introduction
Develop Projects

Manage Projects

2nd Lecture

Presentations and reports
Exercise

3rd Lecture

iii. Course Purpose, and Objective

Course Purpose, and Objective

Getting started with Primavera Project Planner (P3) through hands-on, basic training. Participants will gain a through background in the concepts of planning and scheduling, while learning how to use P3 software through hands-on workshops to learn, and train you on how to utilize P3 for project planning, scheduling, controlling, and reporting.

By the end of this course, the participants will be able to:

- Add new project
- Add Activities
- Organize Activities
- Create Activity Code Dictionary
- Add Codes to Activities
 - Create Relationships
- Schedule a Project
- Add Constraints
- Create calendars
- Integrate data with OLE
- Optimize the Schedule
- Presentations and reports
- Enter Actual Status to Update the project

vi. Course Start Up

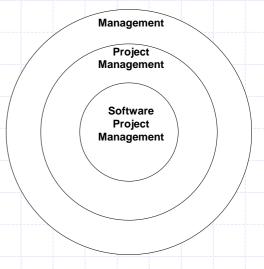
1. Introduction

1. Introduction

- a. What Is Project Management
- b. Common Terms are used in management, P3
- c. Open the P3 software.

What Is Project Management

- Project management is the process of planning, organizing, and managing project's tasks and resources to accomplish a defined objective.
- Usually within constraints on time, resources, or cost.
- A project plan can be simple, for example, a list of tasks and their start and finish dates written on a notepad.
- Or it can be complex, for example, thousands of tasks and resources and a project budget of millions of dollars.
- Most projects share common activities, including breaking the project into easily manageable tasks, scheduling the tasks, communicating with the team, and tracking the tasks as work progresses.
- all projects consist of three major phases:
 - Build the plan
 - Track and manage the project
 - Close the project



a. What Is Project, Program

According to the PMBOK:

A *project* is a temporary endeavor undertaken to create a unique product, service, or result.

A *program* is a group of related projects managed in a coordinated way to obtain benefits and control not available from managing them individually.

a. What Is Project, Program



Key Terms

- **Activity:** task to be done in a specific duration to accomplish the project
- **Resources:** to perform a task we should have our resources (labor, material, equipment, S/C, miscellaneous)
- **Schedule:** to distribute the activities on the project time bar to fulfill the job on time.

Project Management Course

Using - Level 1

Primavera

What Is Project Management

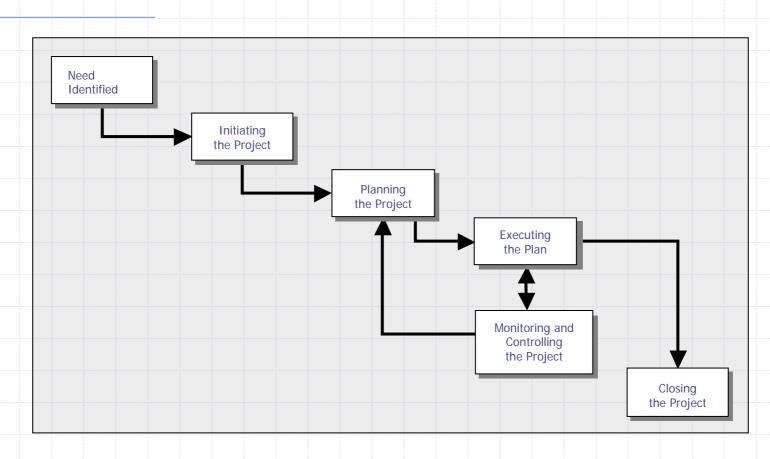
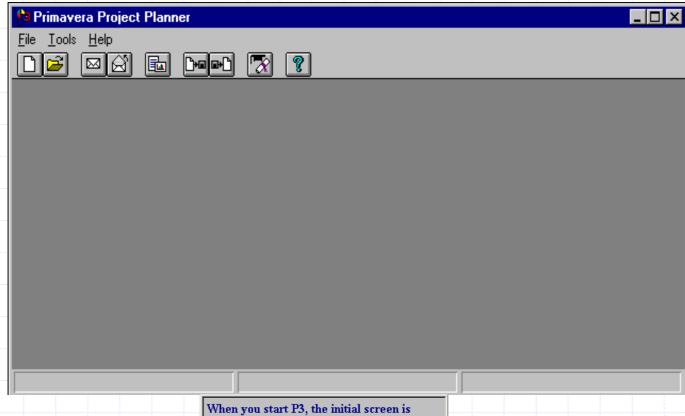


Figure 1.1 depicts the process flow of the Project Management Process Groups.

Open P3



When you start P3, the initial screen is blank until you open an existing project or add a new project. To add a new project, choose the New icon in the toolbar.

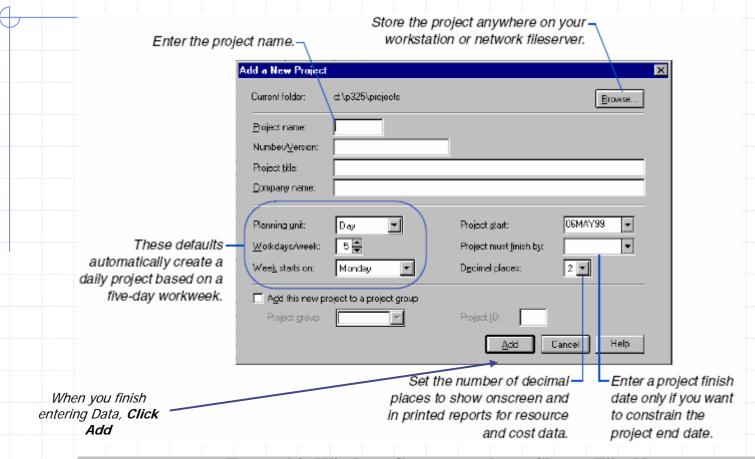


2. Develop Projects

2. Develop Projects

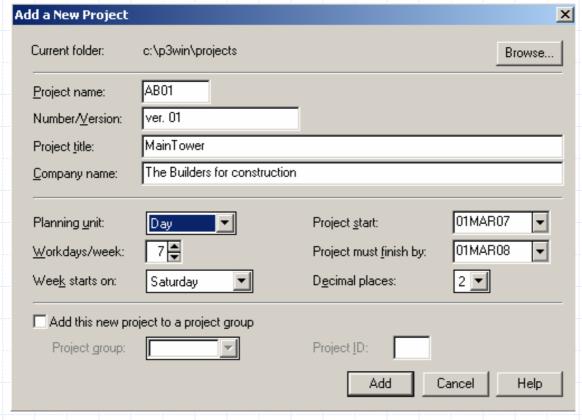
- a. Add a new projects
- b. Work with activities and different relationships
- c. How to Calculate and Adjust the Schedule
- d. Create and save layouts, filter
- e. Define calendars
- f. Activity Code

Add New Project



To get this Window, Go to menu bar, Choose File, New,

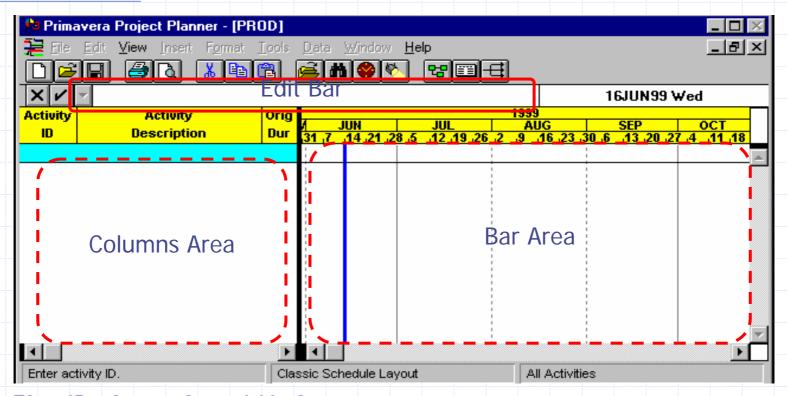
Add New Project





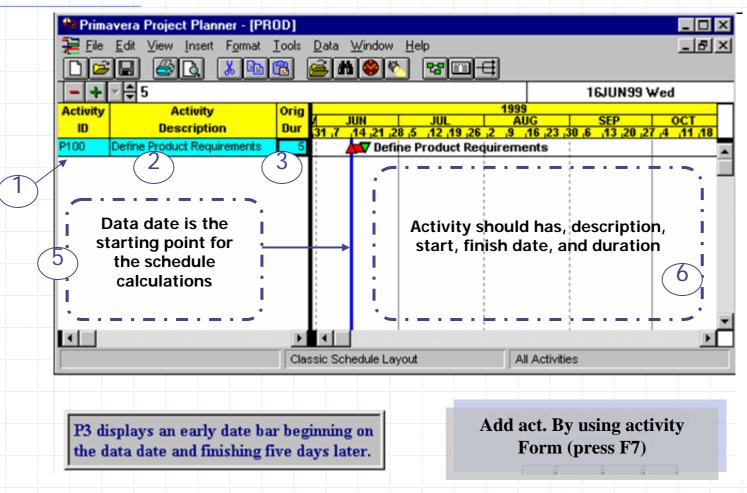
Create a new project including the above Data

New Project



P3 verifies that no other activities have the same ID and then displays the activity data and a bar. P3 assigns a default duration of 1 day to the activity.

Add An Activity





Exercise share with Lecturer

Create a project, and add the following activities:

Main Data

Name : AB01

Project title: Main Tower

Company Name: The Builders for construction

Project Start Date : 1St March, 07

Project must finish by : 1st March , 08

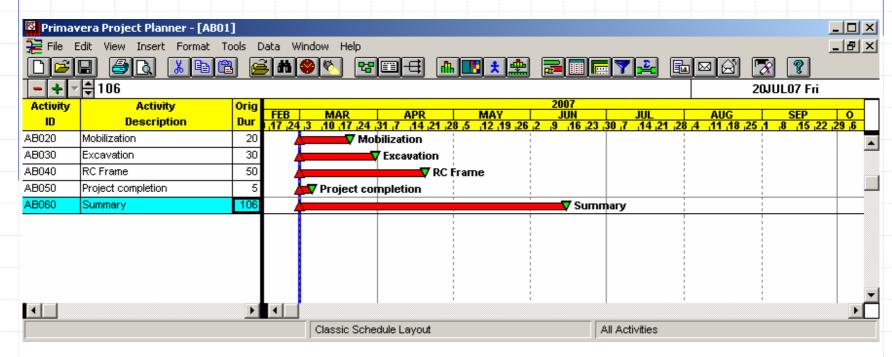
Activity Details:

<u>ID</u>	Description	Dur.	
■ AB010	Contract award	1 days	
AB020	Mobilization	20 days	
■ AB030	Excavation	30 days	
■ AB040	RC Frame	50 days	
AB050	Project completion	5 days	
■ AB060	Summary	106 days	



Exercise share with Lecturer

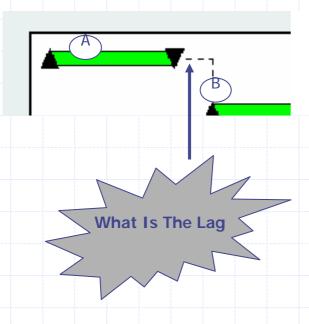
Result will be as the following



- Key Term
 - Activity logics
 - Predecessors
 - Successors
 - Activity different relationships:-
 - SS: Start Start
 - FS: Finish Start
 - FF: Finish Finish
 - SF: Start Finish

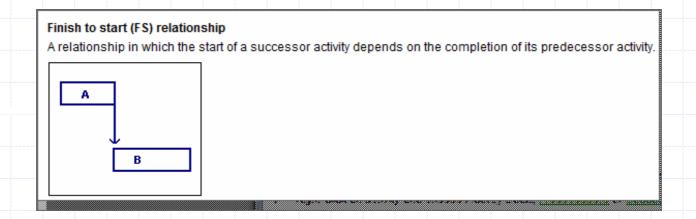
Project Management Course

Relationships

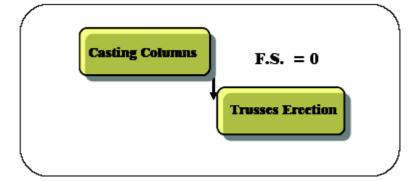


- (A) Is the predecessor of (B) (B) Is the successor of (A)

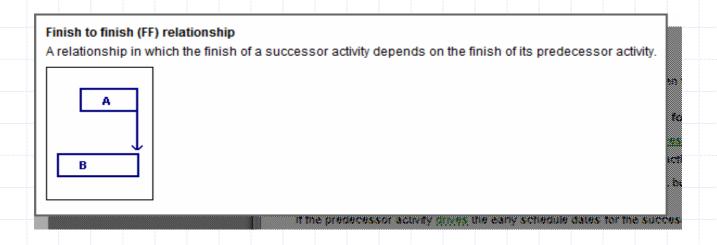
Relationships



Sample: columns and Slab, Excavation and Foundation

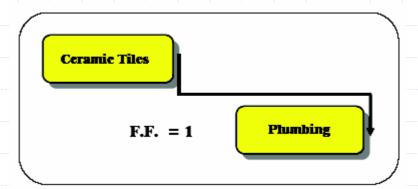


Relationships

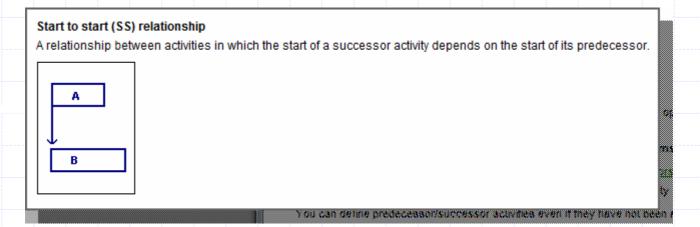


Sample:

Slab conduits and Slab, Excavate Footing, Footing Formwork



Relationships

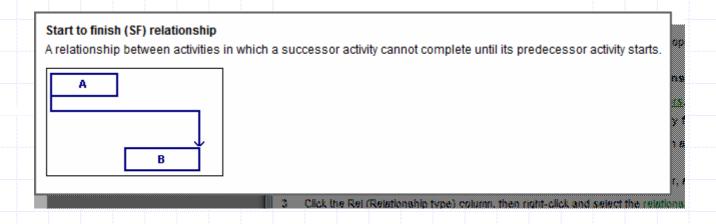


Sample:

Block, Plaster Excavate Footing, Footing Formwork

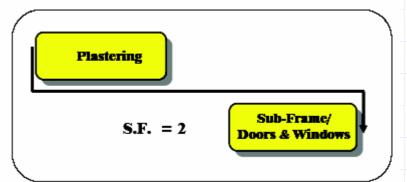
S.S. = 4 Plain Concrete

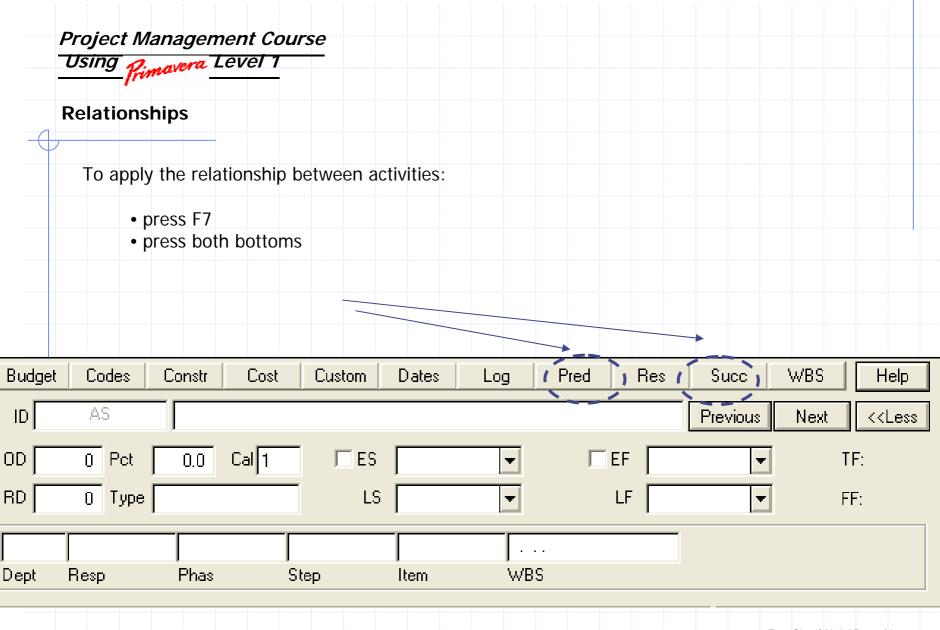
Relationships



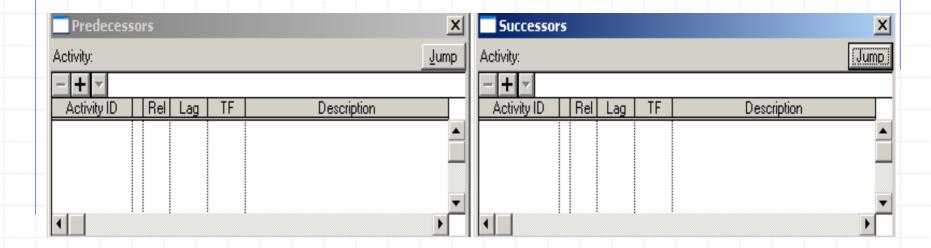
Sample:

Wall conduits, plaster





Add Relationships



- Activate the activity
- •In the pred. window write the predecessor act., add the relationship
- •Repeat the same with the secc. window



Use the previous project and change the duration as the following:

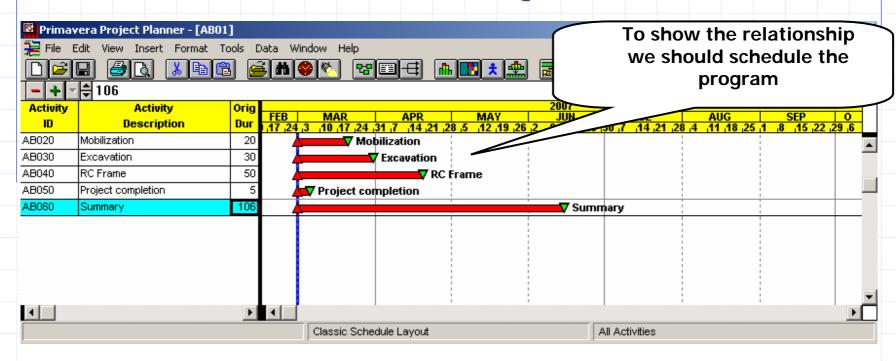
ID	Desc	dur	Pred	relation	SUCC.
AB010	Contract award	1		FS	AB020
AB020	Mobilization	20		FS	AB030
AB030	Excavation	30		FS	AB040
AB040	RC Frame	50		FS	AB050
AB050	Project completion	5		FS	AB060
AB060	Summary	106			





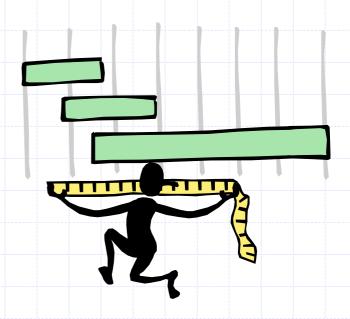
Exercise share with Lecturer

Result will be as the following



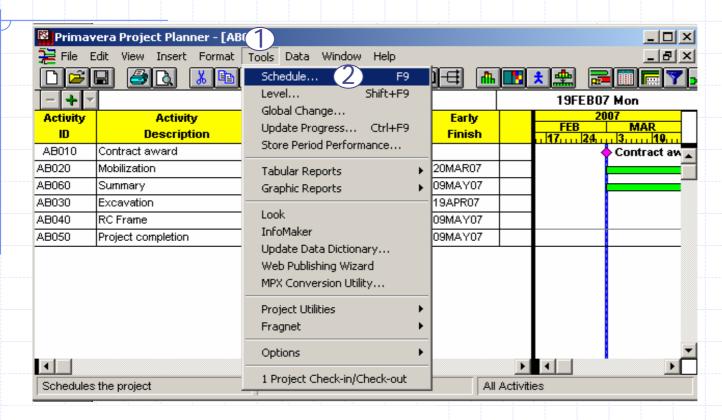
How To schedule a project

- •P3 calculates the earliest start and finish dates for each activity from the beginning to the end of the project,
- •then calculates the latest start and finish dates for each activity, working from the end of the project back to the first activity.
- •During the backward pass, P3 also calculates float values.
- •P3 uses the project planning unit and calendar definitions to calculate these dates.
- Calculate a schedule Choose Tools, Schedule, or

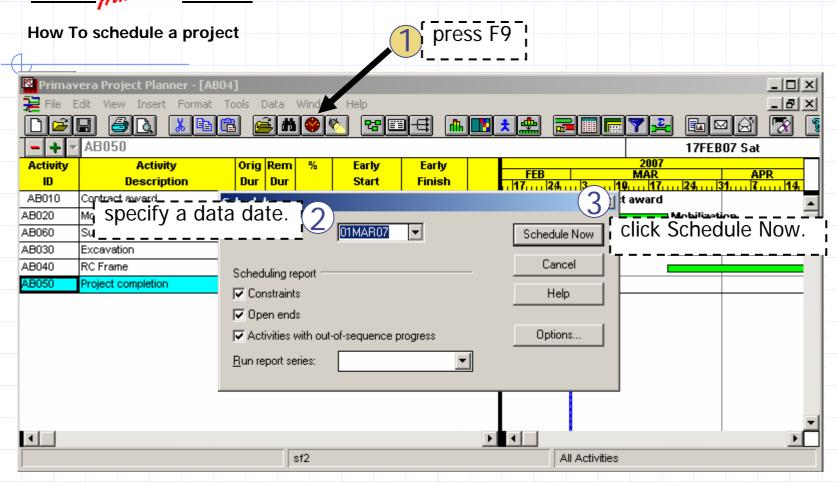


Project Management Course <u>Using - Level 1</u>

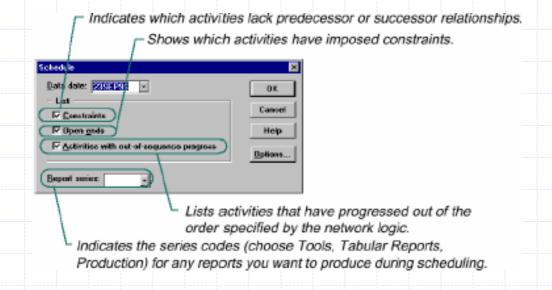
How To schedule a project



- •Option 1: press F9, specify a data date, and click Schedule Now.
- •Option 2:Choose Tools, Schedule pecify a data date, and click Schedule Now.

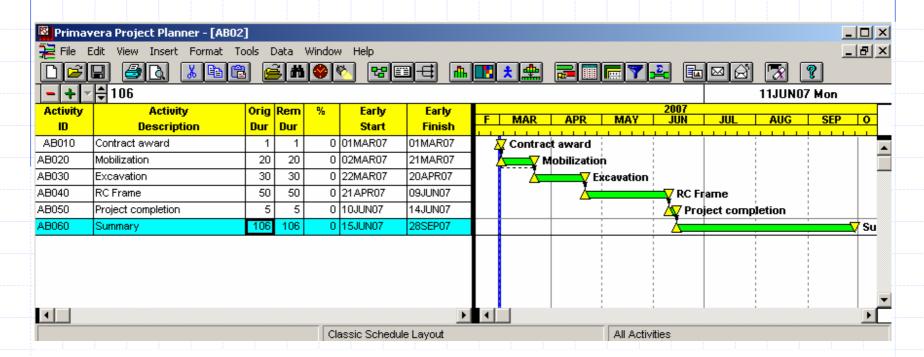


Calculating a Schedule





Result will be as the following





Exercise

Add the following relationship

ID	Desc	dur	Pred	relation	SUCC.
AB040	RC Frame	50		FS	AB020

Then schedule the program "

- Press F9
- Press "ENTER"

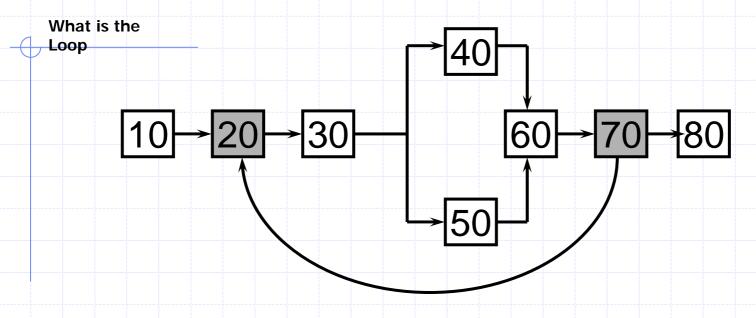
The Loop

avoid the Loop

Primavera Project Planner

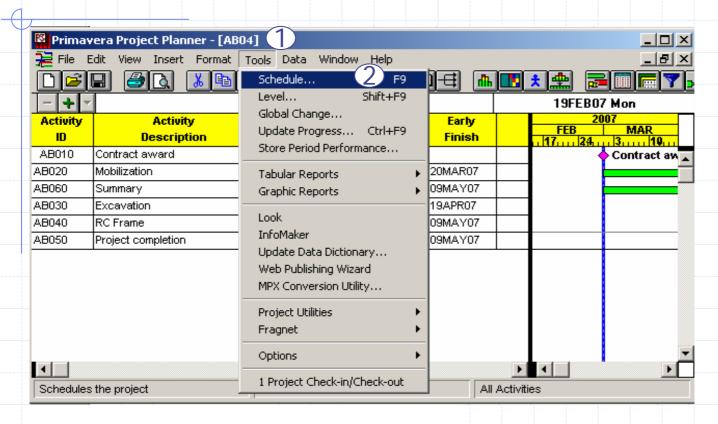
Loop(s) detected, schedule run terminated.

OK

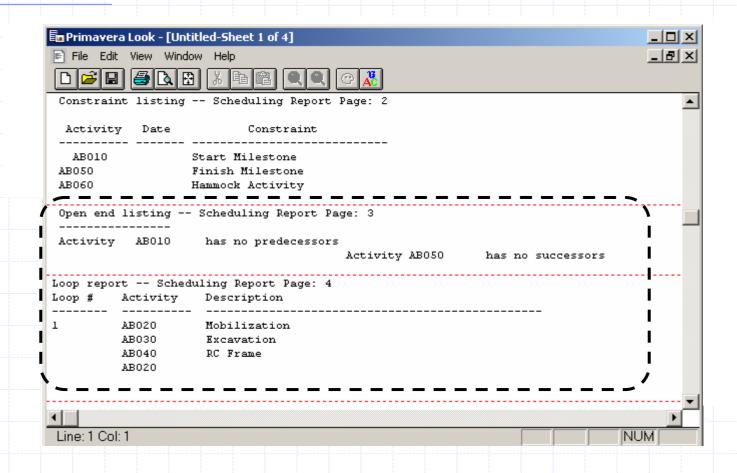


- ☑ Loops indicate circular logic between two activities
- P3 will not calculate until the loop is eliminated
 - Determine proper logic
 - Re-run schedule

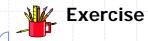
How To schedule a project



- Choose Tools, Schedule
- specify a data date, and click Schedule Now.



Project Management Course



Use the previous project and change the duration as the following:

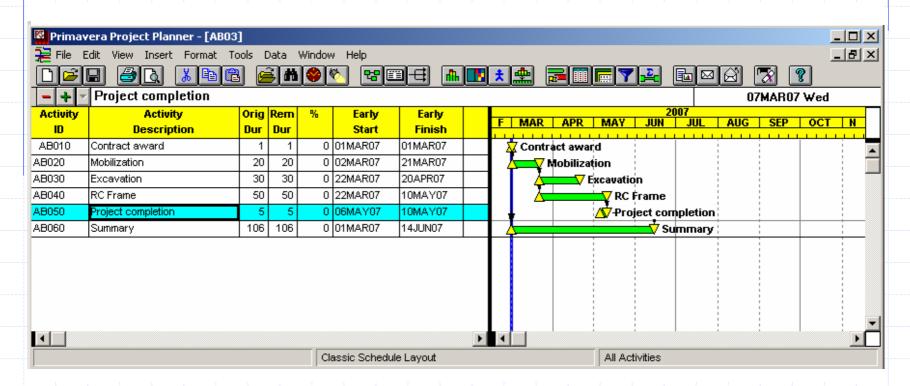
ID	Description	Dur.	PRED.	relation	SUCC.
AB010	Contract award	1		FS	AB020
				SS	AB060
AB020	Mobilization	20	1	FS	AB030
AB030	Excavation	30		SS	AB040
AB040	RC Frame	50		FF	AB050
AB050	Project completion	5			
AB060	Summary	106		FF	AB050



Then fill the pred. columns



Result will be as the following



Activity types

- Task: the most common activity with start, finish date. Could be updated with progress less than 100%
- zero duration activity
 - Start Milestone,
 - Finish Milestone,
 - Flag

They used to indicate the start/finish of a major event or any other important point in the project., flag only has predecessors, cannot has a successors Only 0% or 100% are available

Hammock: used to monitor the elapsed beginning-to-end duration of a group of activities (i.e. the hammock duration is the number of days between the beginning of the first act. And the end of the last act. In the group and not the sum. Of the act's duration)



Exercise

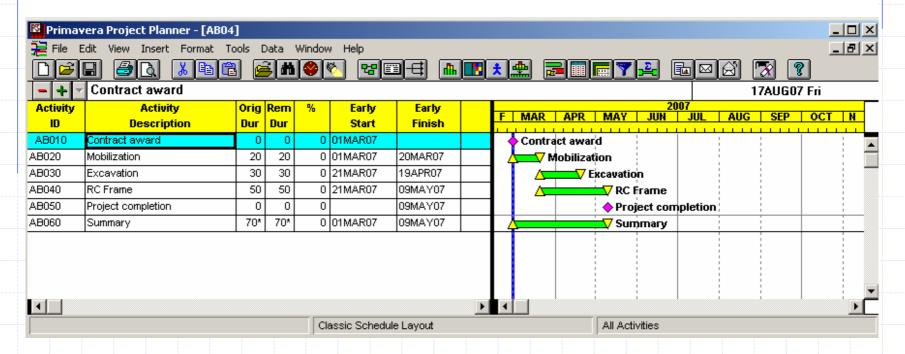
Modify the activities types to be as the following:

a.	Contract award	Start MS
—	Joint aut arrand	0.00.0.00

- b. Mobilization task
- c. Excavation task
- d. RC Frame task
- e. Project completion Finish MS
- f. Summary Hammock



Result will be as the following



Work with activity

- Select activities
- Cut
- Copy
- Past . . -
- Edit activities
- Define activity types
- Find activities
- Delete
- Dissolve
- Extract
- Row Height
- Assign activity IDs
- Rename activity IDs



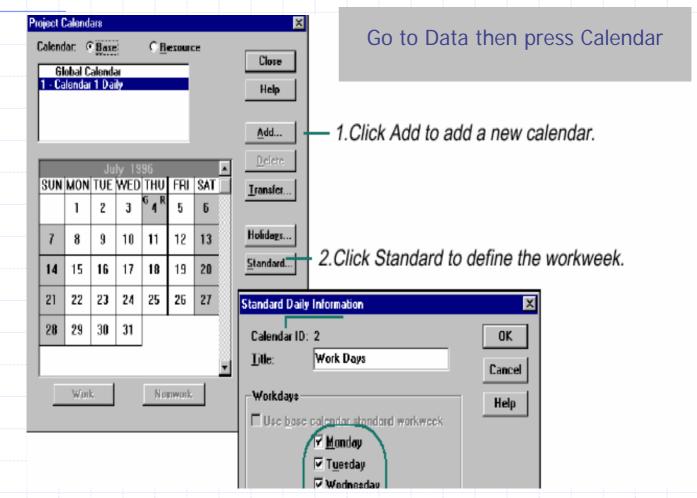
Undo 7 is not available in P3

Calendars

- Define calendars: P3 enables you to establish up to 31 calendars per project to accommodate different work patterns. For example:
 - if some activities require a 5- day workweek, while others are performed part- time (such as Monday, Wednesday, and Friday) or
 - Work period during Ramadan at site is less than at period at engineering work (designer at India)

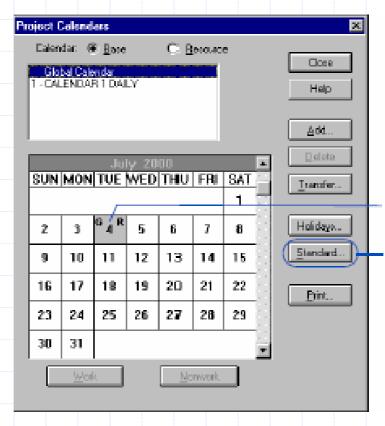
you can create different calendars (up to 31) and assign the activities to them.

Calendars



Global Calendar

- The global calendar defines non-work periods that apply to all calendars. Use the global calendar to designate all holidays and non-work periods your company observes, especially if you plan to use more than one calendar. P3 automatically reflects these non-work periods in all project calendars so you need not define them on each calendar you use.
- Display the global calendar Choose Data, Calendars, and select Global Calendar in the Calendars dialog box.



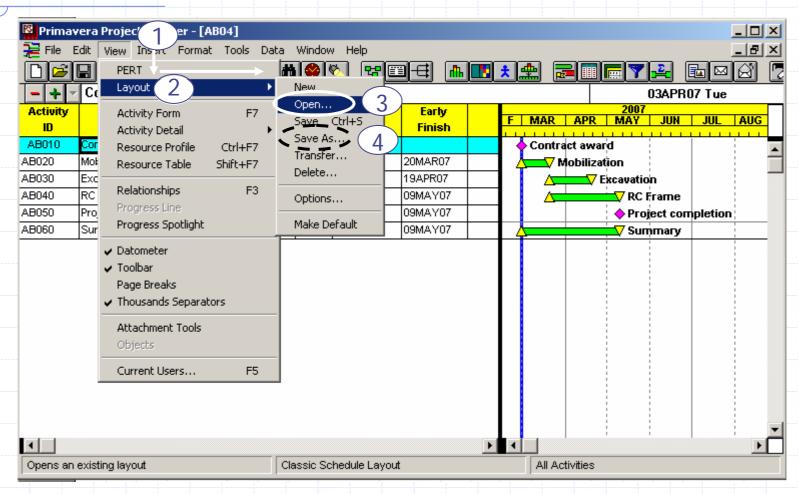
July 4 is a global holiday for all calendars.

Click to define global calendar information such as project start and finish dates.

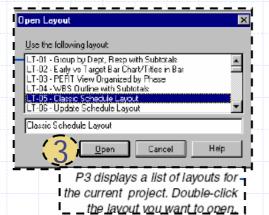
What is the Layout

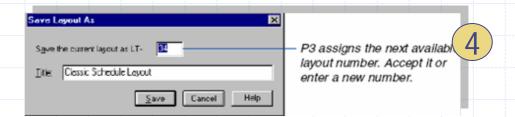
- The appearance of the project depends on its layout.
- A layout is a picture of the project that stores visual elements such as
 - the format of activity bars.
 - The columns format,
 - the organization of activities,
 - and screen colors.
- P3 displays the default layout, called the Classic Schedule Layout,

How To Open/Save A layout



How To Open/Save A layout

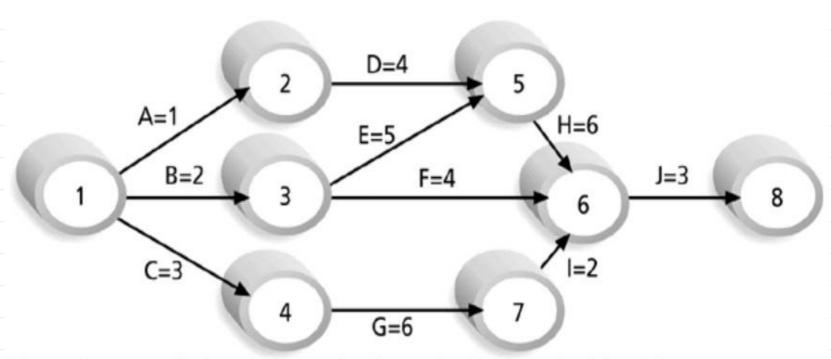




What is the Critical Path Method (CPM)

- CPM is a project network analysis technique used to manage total project duration
- A critical path for a project is the series of activities that determines the *earliest time* by which the project can be completed
- The critical path is the *longest path* through the network diagram and has the least amount of float

What is the Critical Path Method (CPM)



Note: Assume all durations are in days; A=1 means Activity A has a duration of 1 day.

Finding the Critical Path

- ✓ We have to calculate it manually to feel it (Very Important)
- First develop the project network diagram
- ✓ Calculate the durations for all paths on the project network diagram
- The path with the longest duration is the critical path

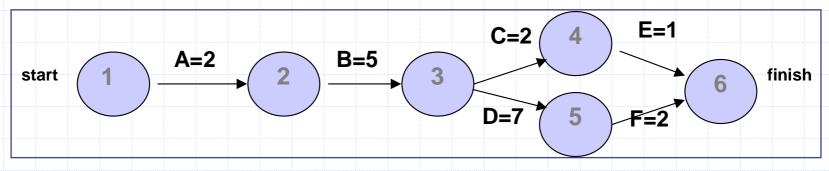




If one or more activities on the critical path takes longer than planned, the whole project schedule will slip unless corrective action is taken

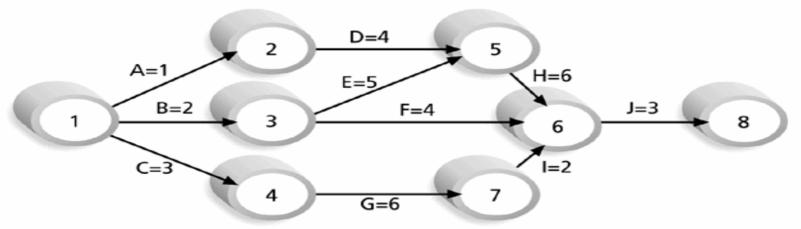
Finding the Critical Path

Consider the following project network diagram. Assume all times are in days.



- a. How many paths are on this network diagram? ABDF, ABCE
- b. How long is each path?
- c. Which is the critical path?
- d. What is the shortest amount of time needed to complete this project?

Finding the Critical Path



Note: Assume all durations are in days.

Path 1: A-D-H-J Length = 1+4+6+3 = 14 days

Path 2: B-E-H-J Length = 2+5+6+3 = 16 days

Path 3: B-F-J Length = 2+4+3 = 9 days

Path 4: C-G-I-J Length = 3+6+2+3 = 14 days

Since the critical path is the longest path through the network diagram, Path 2, B-E-H-J, is the critical path for Project X.

More on the Critical Path



Misconceptions:

The critical path is the one with all the critically important activities.

×

The critical path cannot change as the project progresses.

×

There can be only one critical path

×

More on the Critical Path



Misconceptions:

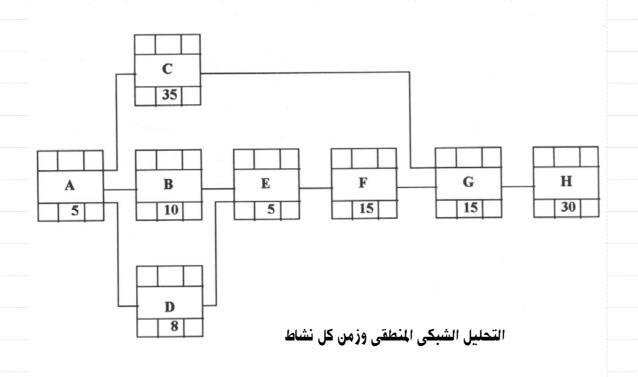
- The critical path is the one with all the critically important activities.
- Wrong: Critical path considers only task durations for criticality
- The critical path cannot change as the project progresses.
- Wrong: Yes, it can.
- There can be only one critical path
- Wrong: If the lengths of multiple paths are the same and they are the longest, they are all critical.

Excercies

E.S. E.F.

Activity Description

L.S. D. L.F.



Activity Constraints

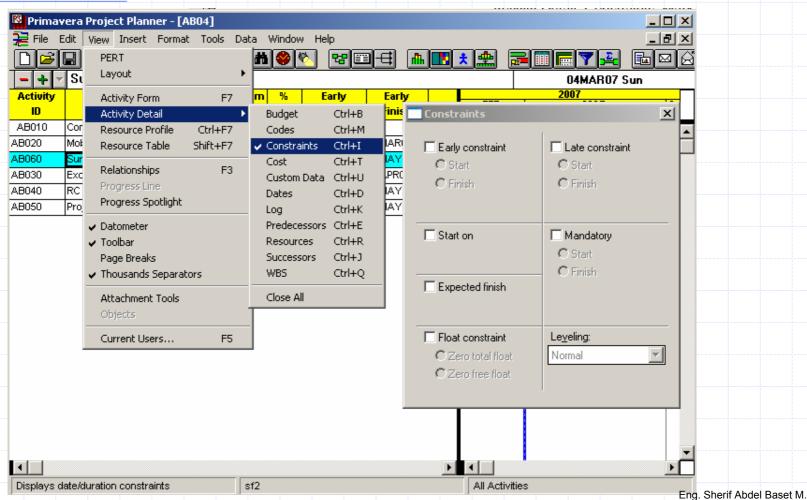
- •Use constraints when activities must start or finish at a specific time and/ or date.
- •P3 provides two types of constraints: date constraints and float constraints.
- •Use date constraints when a specific date controls an activity or project.



This early start constraint restricts the activity from starting any earlier than November 9.

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How to open activity Constraints window



Sr. Systems Specialist

What is Float

\square

Float

The amount of time an activity can be delayed without delaying the overall completion date. Also defined as the time between when an activity can start and when it must start.

Free float is the amount of time an activity can be delayed without delaying the early start of any dependent activities

Free Float = Late Finish - Early Start - Duration

Total float is the amount of time activities may be delayed from their early start without delaying the planned project finish date

Total Float = Late Finish - Early Finish



- Float helps identify schedule problems and analyze schedule status.
- if the *Total Float* is Negative this mean your program is behind schedule
- P3 calculates a negative total float only when you impose a constraint or a project finish date; the late dates are earlier than the early dates, which indicates that the activity is behind schedule.

Activity Code System

- ✓ Use the Activity Codes Dictionary to define a set of codes you Can use to categorize project activities to be able to:
 - ✓organize,
 - ✓Group,
 - ✓ select,
 - ✓ summarize activities;
- ✓ produce reports, and graphics based on the defined activity codes.
- ✓To define activity codes Choose Data, Activity Codes, then choose the Activity Codes option.
- ✓ For each code you want to define, type a name containing up to four alphanumeric characters, specify a length of up to 64 characters, and type a description.



Activity code vary from planner to other, according to your character, experience, type/nature of the project, and your company requirement, policies.

Create up to 20.

Activity Code System

Defines maximum length of code values, up to a total of 64 characters. Activity Codes Dictionary Close-* activity codes CAllex C Activity ||0 Hiele = # E DEPT 3 Department Minneys. 100.30 5 Peoporubility 3 PHASE SPhase 4 STEP 5 Steel Exins... 41 characters remaining Refresh Yokee: DEPT - 🛊 - ENG Walter Description.

Engineering Department

Purchasing Department

Construction Department

Internation Systems Department

Father new orde values occur in project, validate against dictionau

Number of values is unlimited.

Use these buttons to add or delete codes and values.

To define values and descriptions In the Codes section of the Activity Codes Dictionary:

- ✓ select the activity code to which you want to assign values and descriptions.
- ✓ In the Values section, type a value and description.
- ✓ Specify an order number from 1 to 255 if you want the value to appear in an order other than the default alphanumeric sequence.

PT.H

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COM

Project Management Course

Using - Level 1

Primavera

Activity Code System

3. Manage Projects

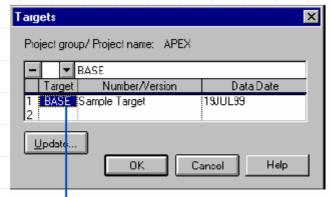
Schedule the project

All the participants to create the actual data and update the project accordingly

Creating a Target Project

- •Before you update a schedule the first time, we suggest that you create a target plan.
- •The simplest target plan is a complete copy of the original schedule. As the project progresses, use the target as a benchmark or baseline for comparing the target dates, and costs to those for the current schedule. You can also use the target to measure project status and performance.
- •To create a copy of the current project and designate it as a target, choose Tools, Project Utilities, Targets.

Creating a Target Project



Type a name for the target project, or select an existing project to use as a target from the drop-down list, then click OK.

You can create another plan (Target 2) and update it at the end of each period; then compare Target 2 to the current project to identify slippage or recovery since the last period. Create as many targets as you want, but you can compare only two targets to the current schedule at a time.

Project Utilities

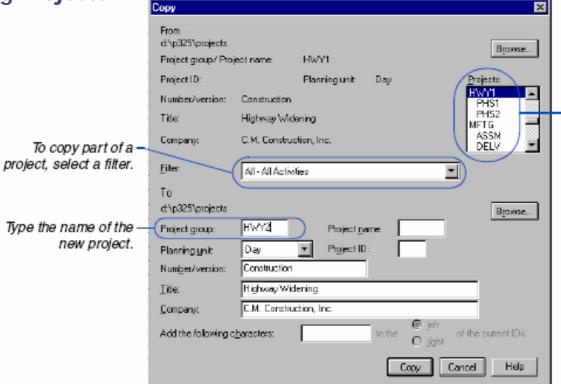
Copying Projects

- •Use the Copy command to create a duplicate of any project. Copy a project to:
 - Explore "what-if" scenarios using the duplicate project, so the original project files do not change.
 - •Also make a copy before update
 - •You can also quickly create a new project from an existing one if the new project uses data similar to the old one. Simply copy the existing project and rename the duplicate.

Choose Tools, Project Utilities, Copy.

Project Utilities

Copying Projects



Select the project group or project to copy.

Eng. Sherif Abdel Baset M. Sr. Systems Specialist

Project Utilities

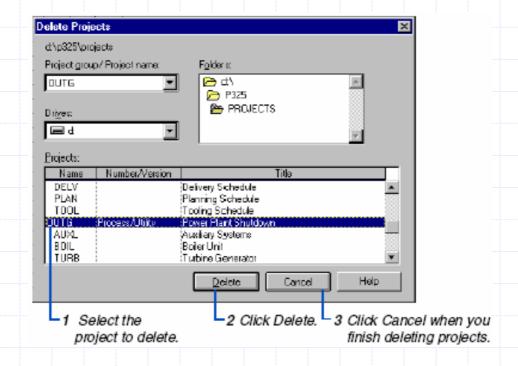
Deleting Projects

The Delete command permanently deletes a project from the specified folder, including layouts and report/graphic specifications.

Before you select this option, you may want to back up your project files.

To delete a project, choose Tools, Project Utilities, Delete. Use the Drives and Folders fields to select projects in other locations. You cannot delete an open project.

Project Utilities



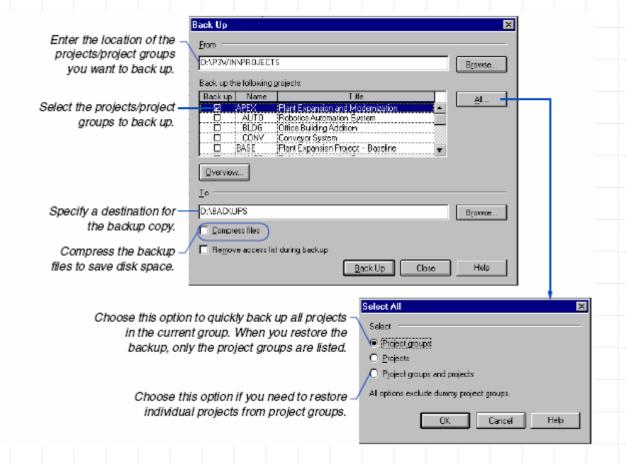
Eng. Sherif Abdel Baset M. Sr. Systems Specialist

Back Up

Backing Up Projects

- •P3 enables you to back up projects to diskettes or to another folder and then to restore projects from the backup as needed.
- •Choose Tools, Project Utilities, Back Up. Backing up projects protects project data and enables you to share projects with users at remote sites. P3 automatically backs up
 - •Layouts
 - Report
 - •graphic specifications
 - project dictionaries
 - •filter specifications.
- The Back Up command does not delete the project files from the folder.

Back Up



Restoring Projects and Project Groups

•Restore projects and project groups from the backup diskette(s) or folder to the selected folder using the Restore command.

Choose Tools, Project Utilities, Restore.

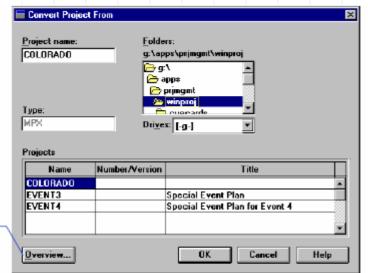
Restore From: Select the location of ___ Browse. the files to restore. Restate the following projects: Restore Name Date of Backup Select the projects/project groups to restore, or click All to restore all projects/project groups from the selected drive and folder. Ιo D:\P3WIN\PROJECTS Browse.. Merge dictionaries from projects Regtors layout, tabular report and graphic report specifications. Restore external relationships from projects. Bestore Close Help

Converting Data to and from Microsoft Project

P3 enables you to convert Microsoft 3.0 or 4.0 projects to P3 format. You can also save P3 projects as a Microsoft .MPX file.

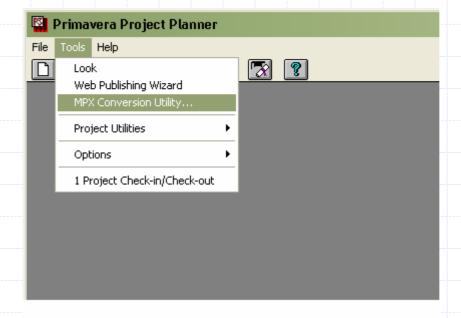
Convert a Microsoft Project to P3 Choose Tools, MPX Conversion Utility, then choose File, Convert an MPX Project to a P3 Project. In the Projects section, select the Microsoft project to convert. Click OK. In the Convert Project To dialog box, specify a new name for the converted project.

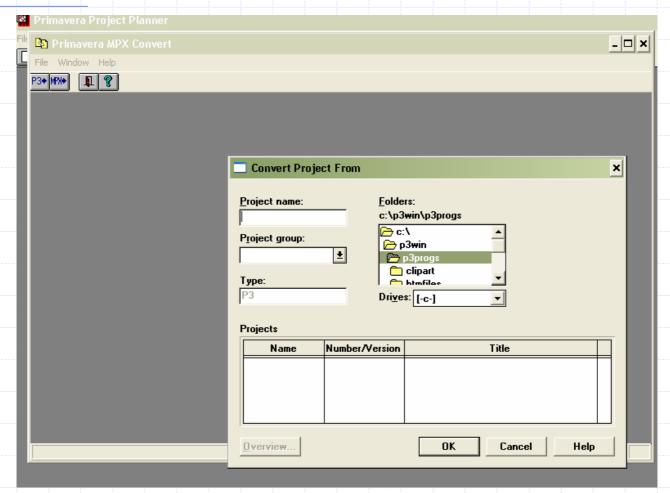
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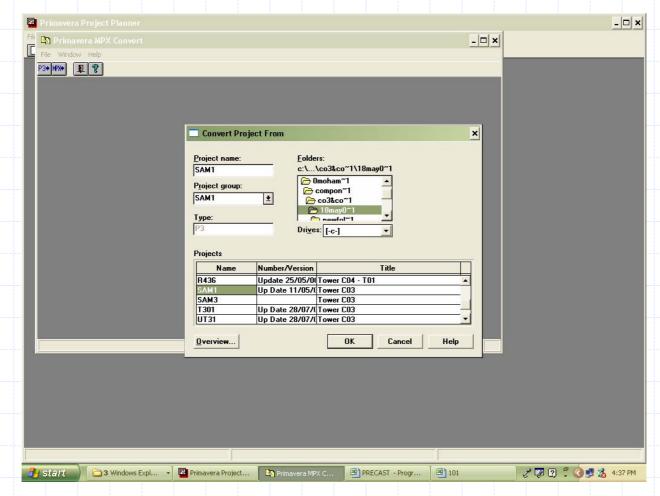


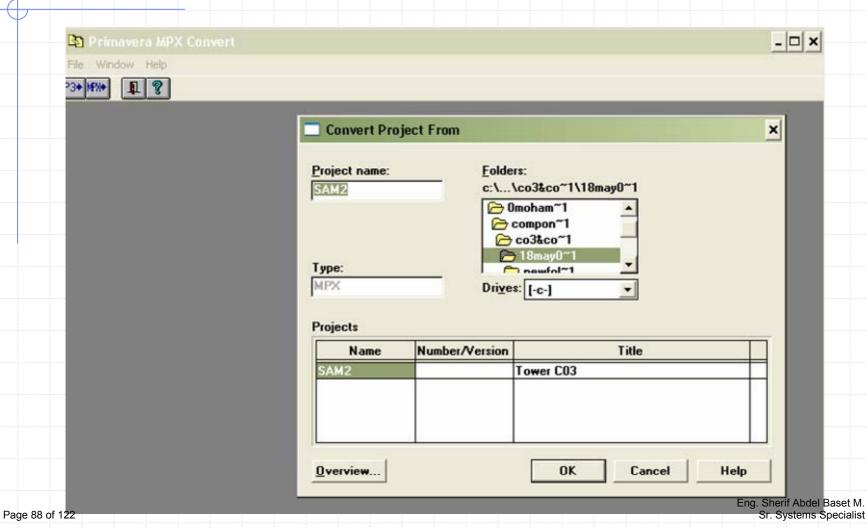
Click to review more information about the project before you convert it.

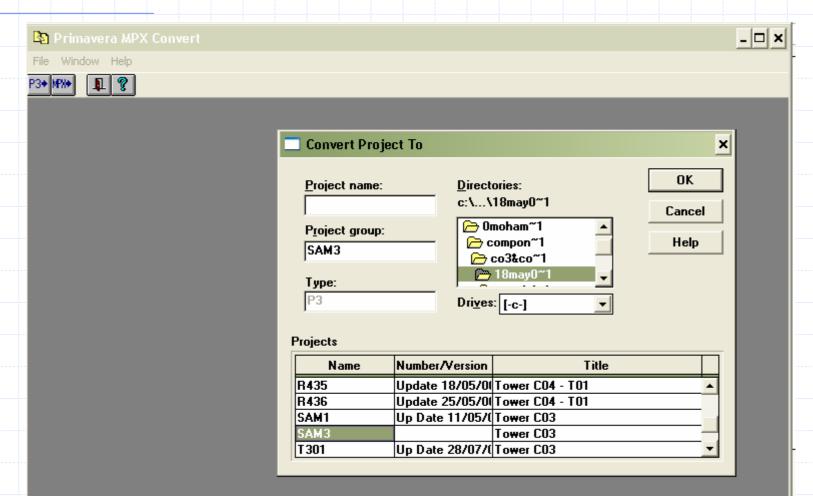
Convert a P3 project to Microsoft Project Choose Tools, MPX Conversion Utility, then choose File, Convert a P3 Project to an MPX Project. Select a project in the Projects section and click OK In the Convert Project To dialog box, enter a new name for the converted project.



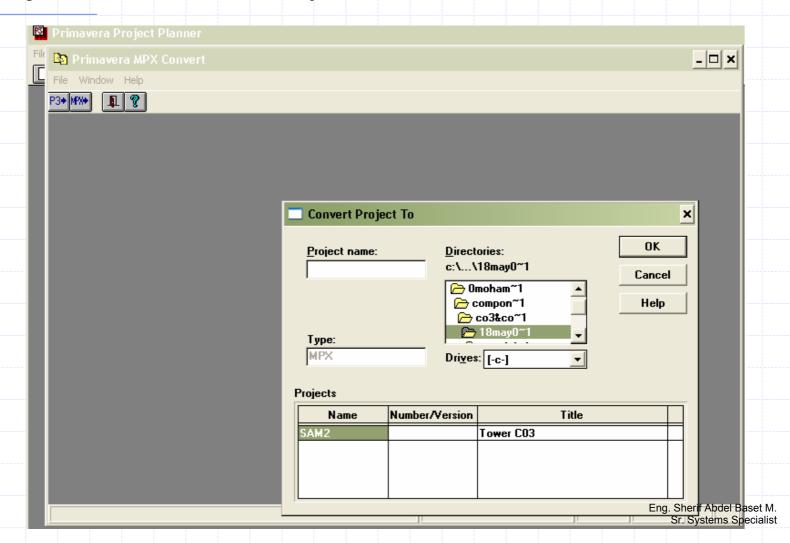








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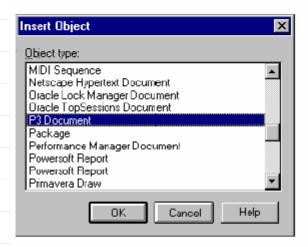
Using OLE to Highlight Project Events

You can create, drawings, text, graphs, or other objects with an OLE server application, and integrate those objects into your layout.

An OLE server is an application whose objects can be embedded or linked into other documents. Once you embed or link objects into a layout, you can edit the objects from within the layout without exiting P3.

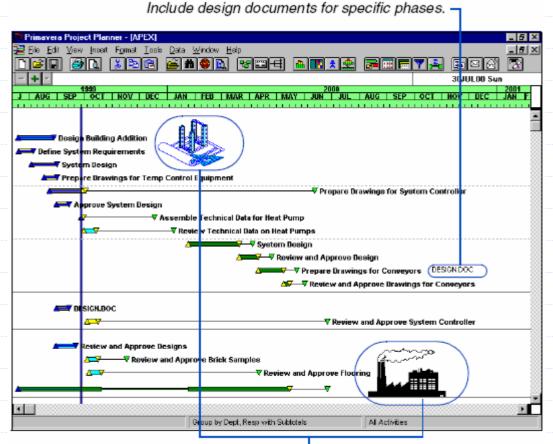
Using OLE to Highlight Project Events

Create and embed a new object Select the activity or group title band to which you want to attach the object. Choose Insert, Object.



Select the application that creates the type of object you want to embed. The Insert Object dialog box lists all the server applications installed on your system. Click OK to open the selected server application. Create a new object. Choose File, Update from the menu bar of the server application.

Using OLE to Highlight Project Events



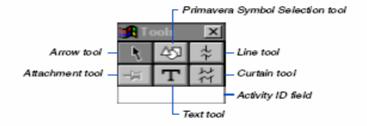
Insert pictures to highlight project activities.

Using OLE to Highlight Project Events

Using Tools to Attach Objects to the Layout

The Attachment Tools enable you to select objects, change the attachment of objects, quickly link bitmaps and Primavera Draw objects to your layout, add text, shading, and date lines to the Bar chart.

Display Attachment tools In the Bar chart, choose View, Attachment Tools.



If the Primavera Symbol Selection tool or Text tool is selected, the activity ID field at the bottom of the Tool palette displays the activity ID or group title band to which the object will attach when you release the mouse button. If you select an attached object in the layout, the Activity ID field will display the Activity ID or group title band to which the object is currently attached.



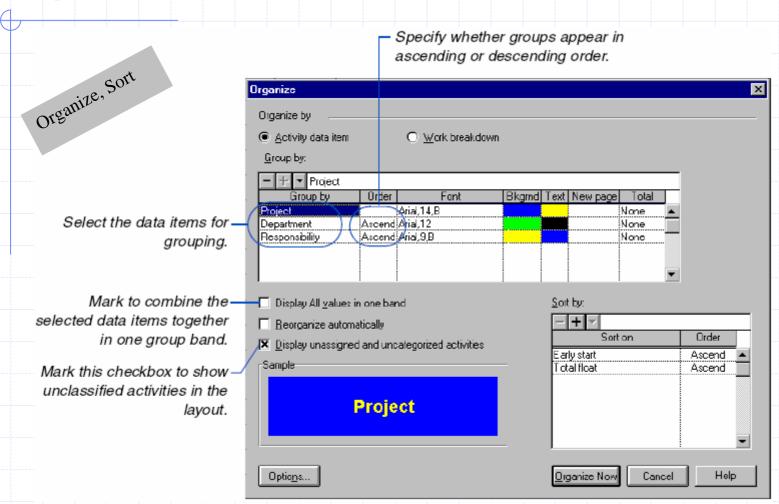
You must display the Tool palette to select OLE objects in the Bar chart.

4. Analysis, Presentations, Reports

Group, sort, filter, and summarize data:

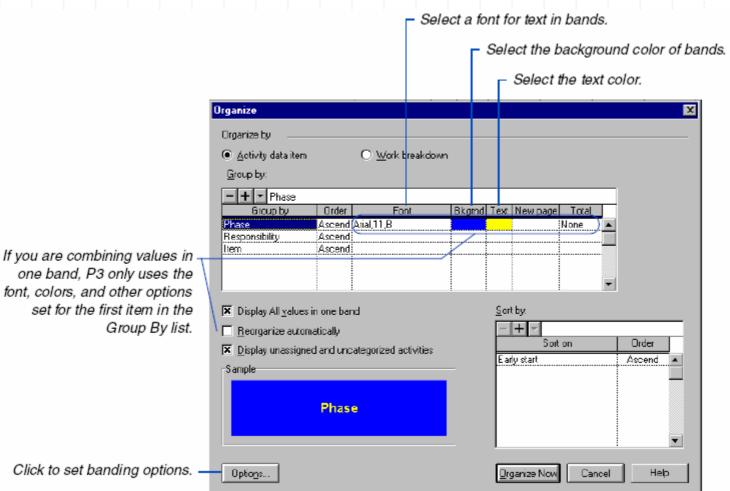
- •P3 provides extensive grouping and sorting capabilities so you can view a project from many different perspectives.
- Sorting arranges activities in any order you select, such as by early start to view activities sorted according to time.
- •Grouping organizes activities into categories that share a common attribute. For example, focus on activities by responsibility, or date. Or, for a hierarchical view of the project, outline the project by its work breakdown structure.

Group, sort, filter, and summarize data:



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Group, sort, filter, and summarize data:

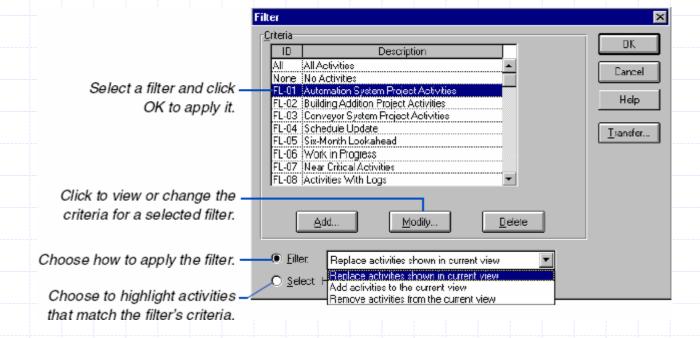


Group By list.

Click to set banding options. -

What is the Filter:

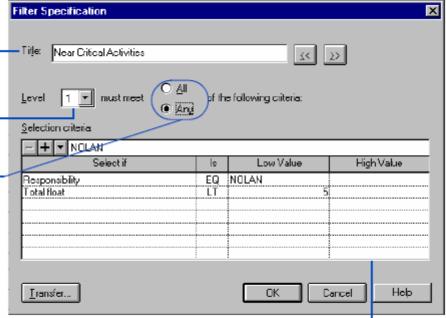
- •Selecting Activities by Filter:
- •Filters control the activities P3 displays in the project window. When you want to work with a part of your project, a filter temporarily limits the activities displayed, based on criteria you specify.



Type a title that describes — Title: Near Critical Activities the activities you want the filter to select.

Specify up to four levelsof filtering criteria.

Choose whether activities must meet all selection statements or at least one.

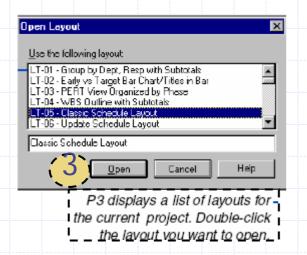


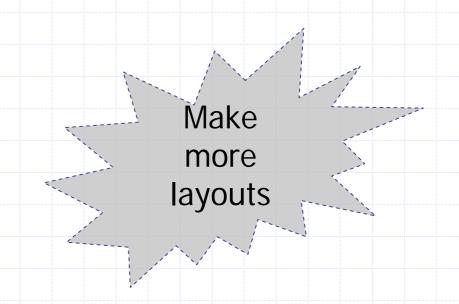
Specify a value in this column when selecting a range of data.

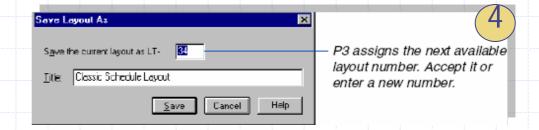
Column	Description
Select if	Identifies the data used for the selection. Enter up to seven lines of selection statements per level.
Is	Enables you to restrict the number of activities selected by choosing one of the following criteria codes:
	EQ - Equal To
	NE - Not Equal To
	GT - Greater Than
	LT - Less Than
	WR - Within Range
	NR - Not Within Range
	CN - Contains (the text string)
	SN - Does Not Contain (the text string)
Low Value/ High Value	Identifies specific activity data to use for the selection. Enter data in the High Value column only when using
	WR or NR as criteria codes.

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How To Open/Save A layout

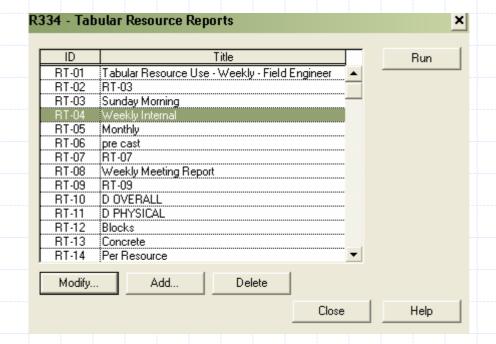




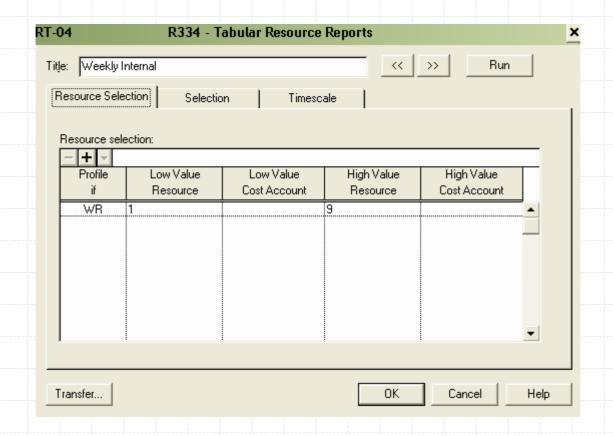


- •Print
- •Total bar
- •Sub-total bar
- •Summary bar
- •reports

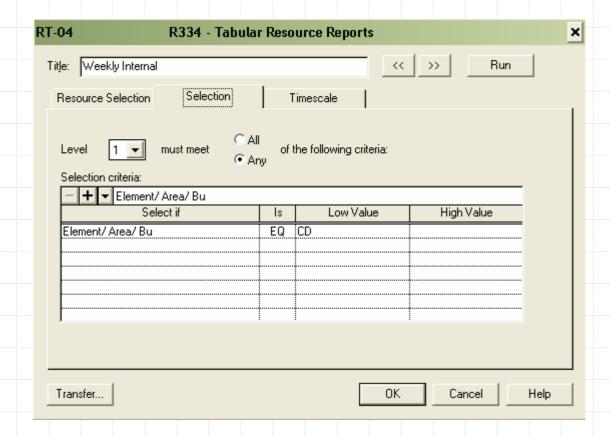
tabular resource report



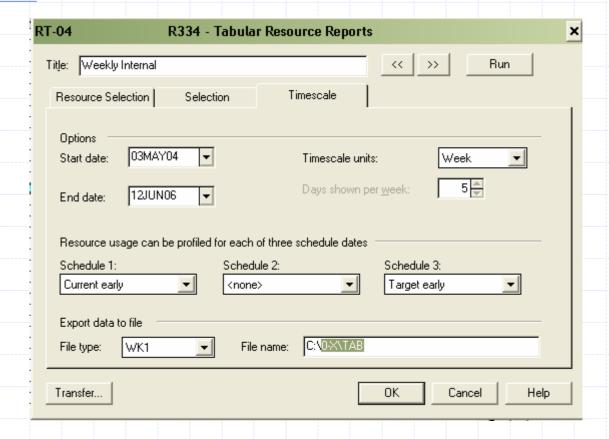
tabular resource report



tabular resource report

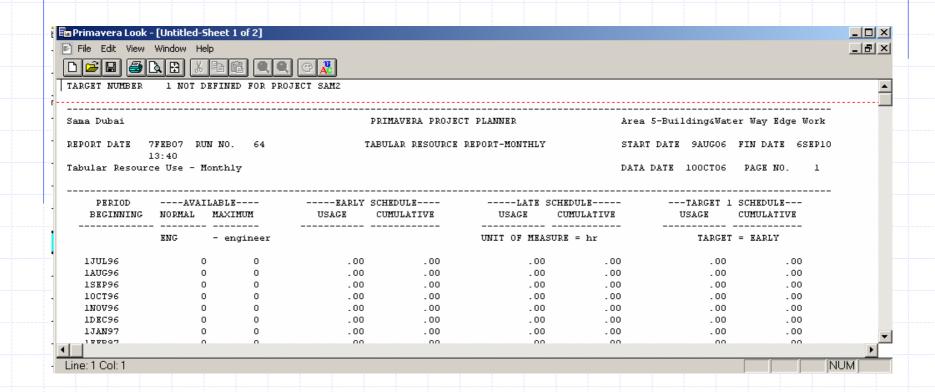


tabular resource report

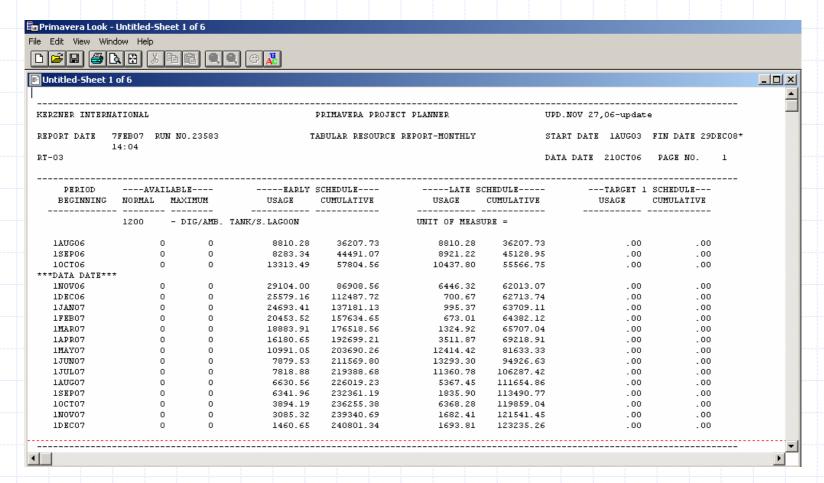


Project Management Course Using - Level 1 Primavera

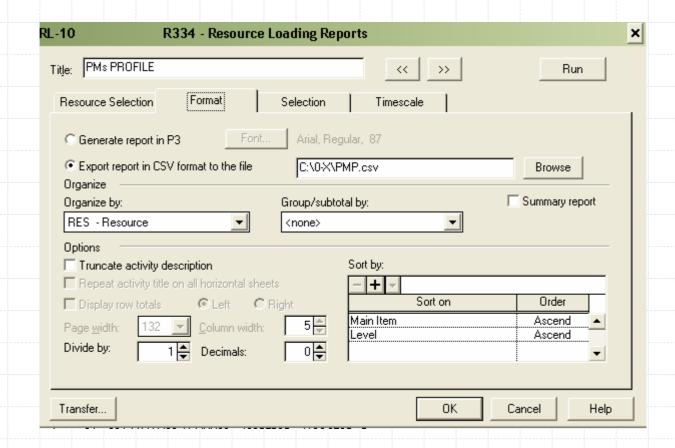
tabular resource report

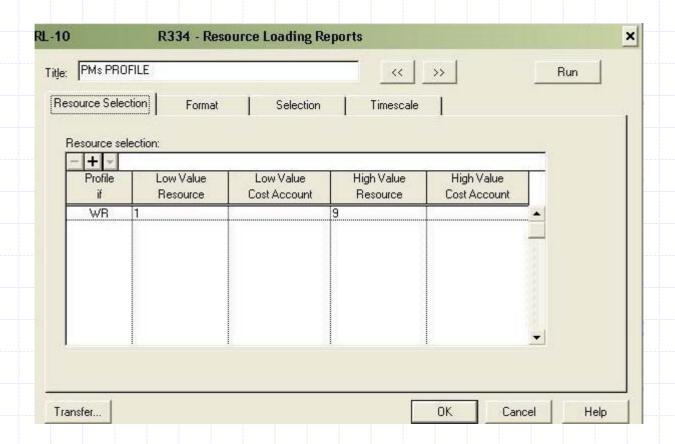


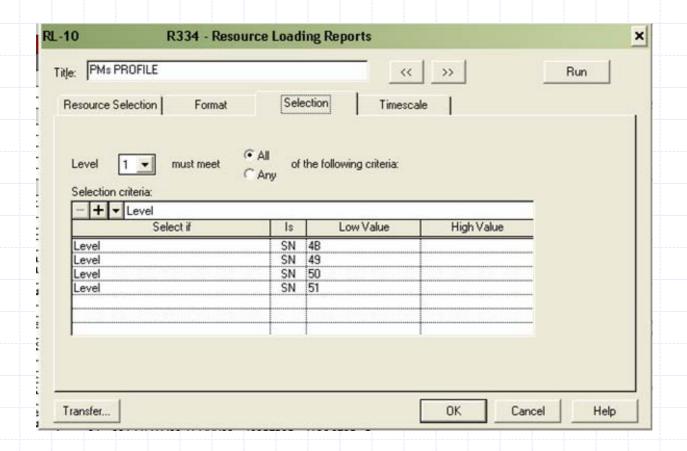
tabular resource report

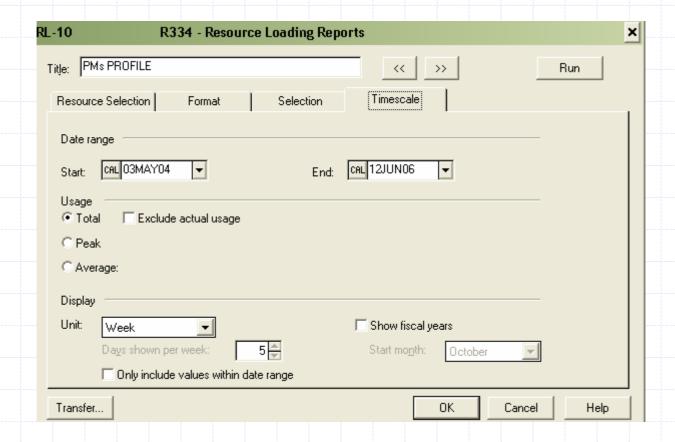


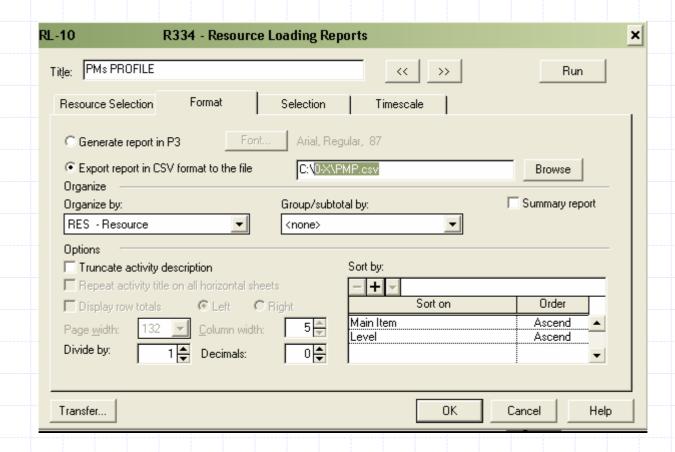
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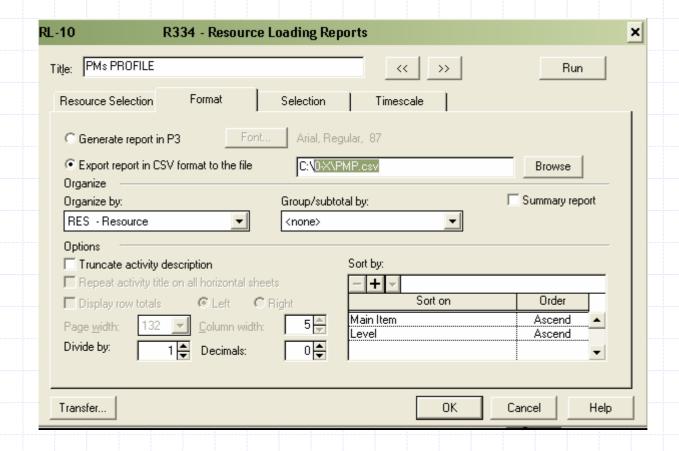


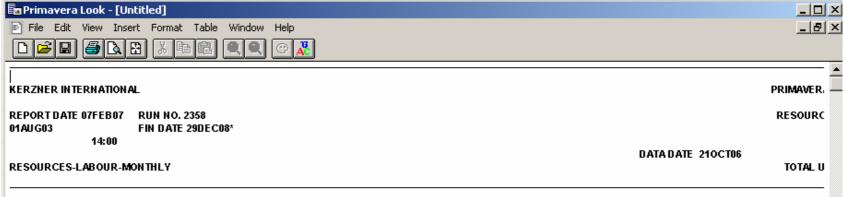












	i		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RESOURCE	RESOURCE DESCRIPTION	TOTAL	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006
:1200	: DIG/AMB, TANK/S.LAGO	4472	······································		15:	49:	334	347	398	367	345:	555	1213	851
1300	CONVENTION CENTER	1690					21	52	56	56	52	238	689	525
1350	ACTIVE POOL GRILLE	160					6	20		22	20	19	14	37
1500	WATER PARK-STRUCTURE	13998	55	51	90	226	527	671	975	1171	1421	1945	4181	2685
1600	WATER PARK BUILDBU	4523										144	1214	3164
1650	WATER PARK-UTILITIES		:											
	REPORT TOTAL	24843	55	51	105	275	888	1090	1451	1617	1838	2901	7312	7261
:								:						

Project Management Course Using Primavera Level 1 Workshops:

- Creating an activity code
- Adding Activities
- Creating Relationships
- Scheduling
- Updating the Schedule

Project Management Course Using Primavera Level 1

Questions/Discussion





Project Management Course Using Primavera Level 1

Important Notes

- To Change Project Main Data: FILE + PROJECT OVERVIEW
 - To change/modify ID numbers : File + Open + activate (Tick) exclusive Bottom
- F7 is a short cut to Activity form
- to fix the ID number Increment
 Tools + Option + Activity Inserting
- to assign code to the activity
 Activity Form (F7) + Codes
 Or
 Add column + assign the code thru it
 - To activate the automatic (FS) relationship
- Insert + Autolink
- To fix the Project Must finish Date Project overview
- To know the current deviation based on the target Format + Column+ add Column choose :Variance 1 Early Finish "

Project Management Course Using Primavera Level 1

Important Notes

- To change/modify ID numbers :
 File + Open + activate (Tick) exclusive Bottom
- Sign * is an indicator of a constraint is assigned to that activity
- To Schedule

 Tools + Schedule "Which Gives You A Report Of current constraint, open end activities, out of sequence logic"
 - Press (F9) if to Perform Scheduling Only (no report is required)
- To summarized the whole project
 Tools + Summarize All

Important Short-Cut

- __ CTRL+I: Constraint Window
- CTRL+E: Predecessor Window
- __ CTRL+J: Successor Window
- CTRL+W: Save Layout Window
- CTRL+O: Open Project Window
- __ CTRL+P: Print Window
- CTRL+F: Find Activity Window

Important Short-Cut

- CTRL+K: Log Window
- CTRL+M: Activity Code Window
- CTRL+N: Add New Project Window
- CTRL+W: Save Layout Window
- CTRL+O: Open Project Window
- CTRL+P: Print Window
- CTRL+F: Find Activity Window