



UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

MGT 250. Project Management

Assignment 2

- 1) The following table shows the allocation of work assignments and resources needed for an investment firm to make a decision on investing in company XYZ.

	Task A	Task B	Task C
Portfolio Managers	Week 1(S)	-	Week3 (P)
Associates	-	Week 1 (P)	Week2 (S)
Analysts	Week 1 (P)	Week 2 (P)	Week2 (S)

(P)=Primary (S)=Secondary

Resource Spreadsheet

Resource	Week 1	Week 2	Week 3
Portfolio Manager	1		1
Associate	1	2	
Analyst	2	5	

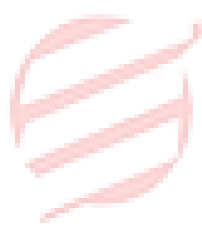
Note: figures in spreadsheet are person-weeks of effort

- Create Responsibility Matrix
- Create Resource Gantt Chart
- Create Resources Loading Chart

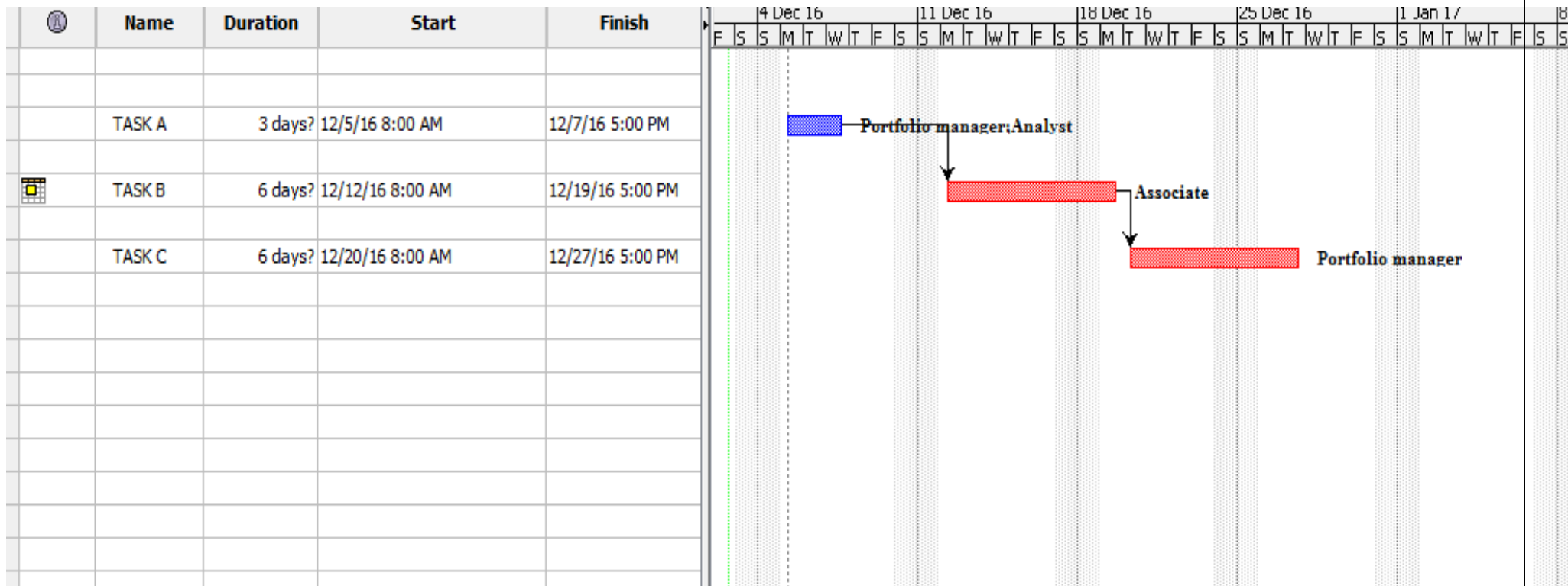
Ans:

a) Responsibility Matrix:

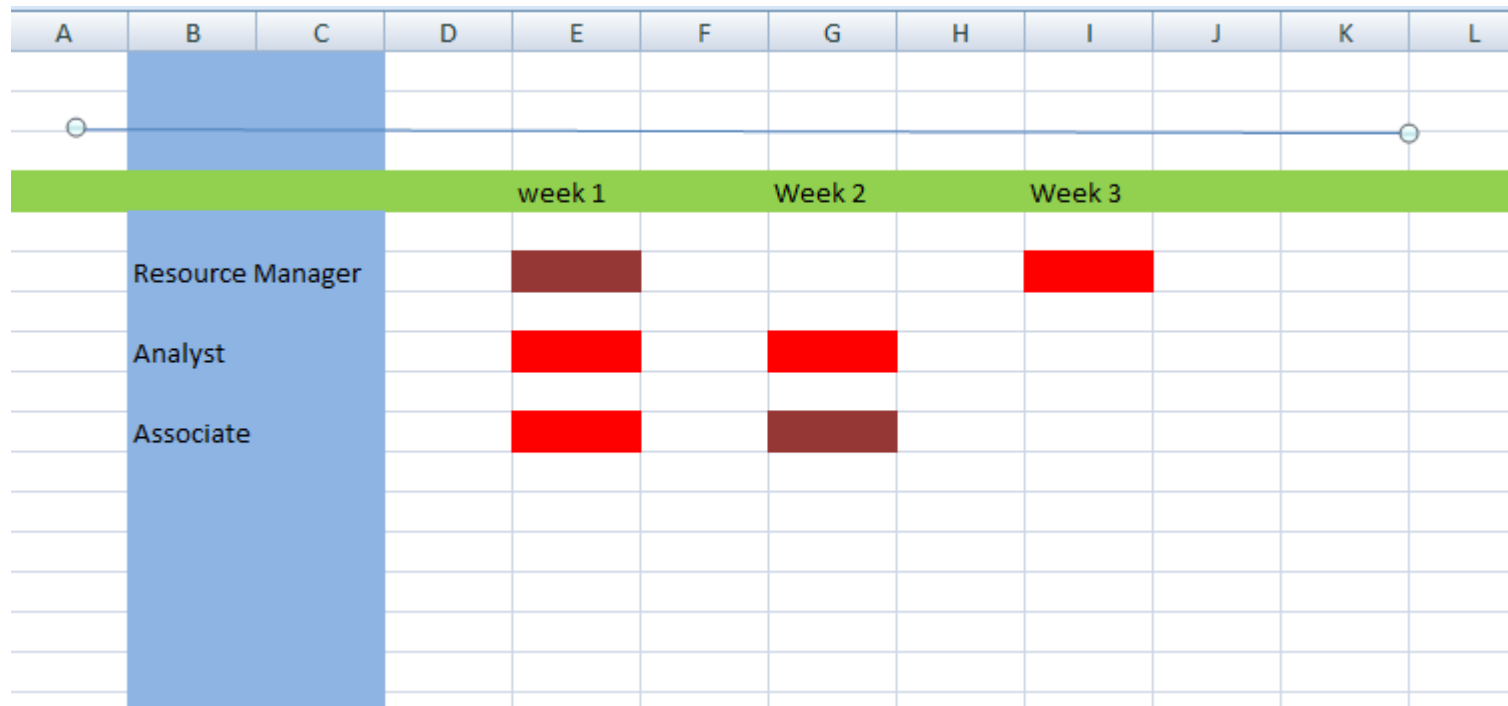
RESOURCE	WEEK 1	WEEK 2	WEEK 3
PORTFOLIO MANAGER	✓		✓
ASSOCIATE	✓	✓	
ANALYST	✓	✓	



EssayCorp 5 years ★★★★★



Resources Loading Chart:



Building a swimming pool

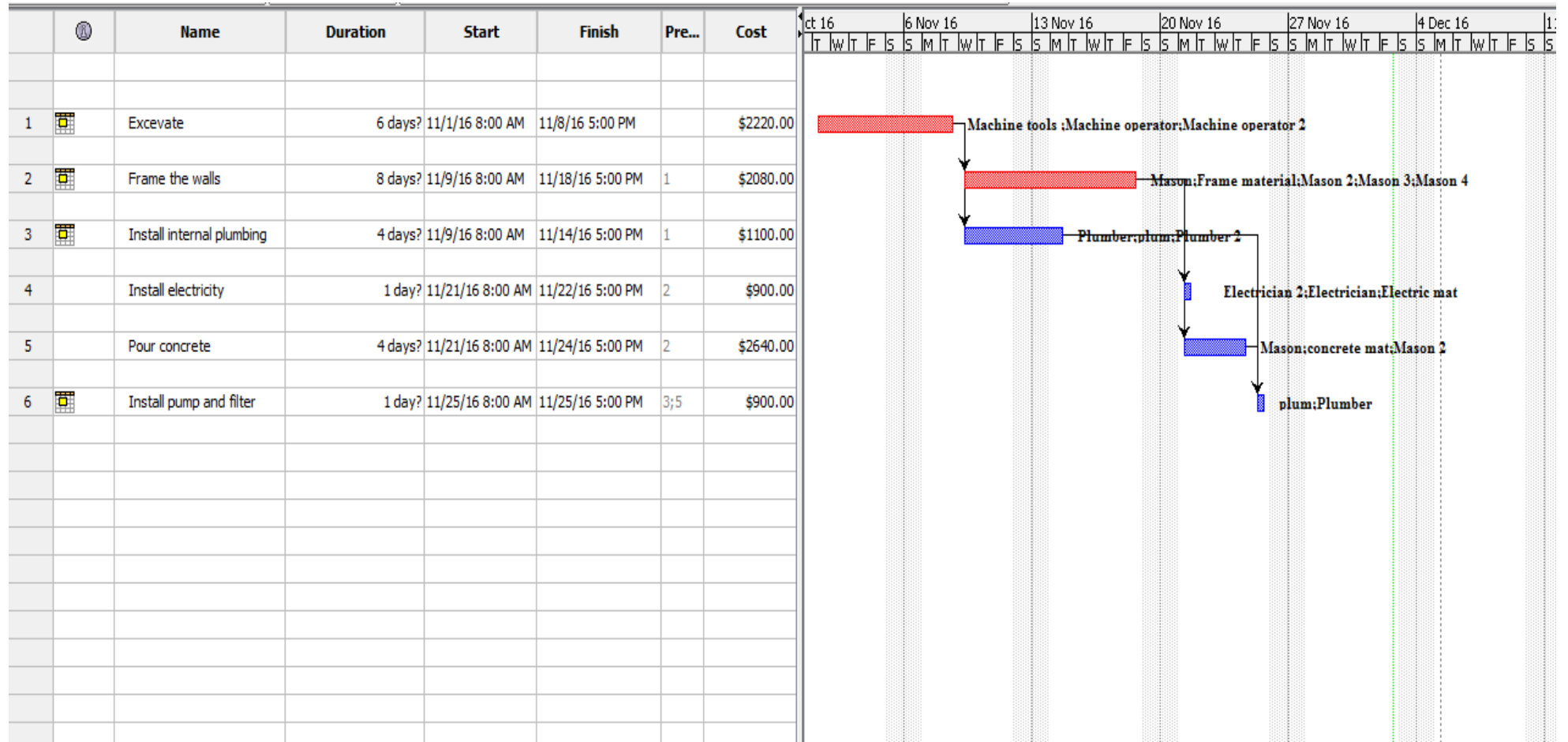
Task	Worker Category	Person Days	# of Workers	Elapsed Time (days)	Materials (\$)
Excavate	Machine Operator	6	2	0	1,500.00
Frame the walls	Masons	8	4	0	800.00
Install Internal Plumbing	Plumber	4	2	0	700.00
Install Electricity	Electrician	2	2	0	500.00
Pour concrete	Masons	4	2	4	2,000.00
Install pump and filter	Plumber	1	1	0	3,000.00
				Total	8,500.00

Category	Wage Rate \$/Day
Electrician	200.00
Mason	160.00
Machine Operator	120.00
Plumber	200.00

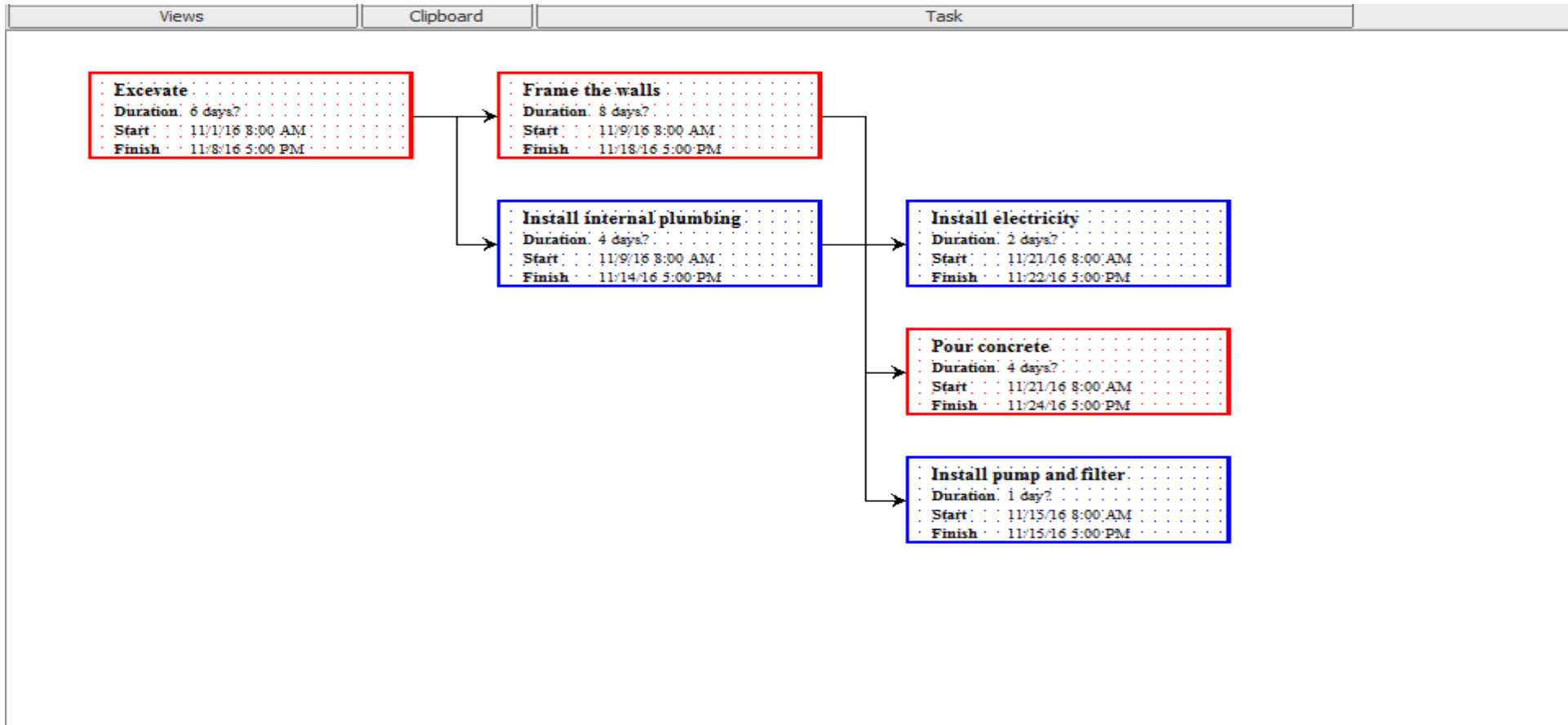
- Create a Gantt chart from the work breakdown structure.
- Create a PERT/CPM network showing the interdependencies of the different activities. How long will the project take? (Note: Don't forget to take "elapsed time" into account.)
- Using the information in your Gantt chart, as well as the information on wage rates and cost of materials, put together a budget showing planned total expenditures for the project



Gantt chart:



PERT:



Duration:

Shortest path duration: 19 Days

Time elapsed= 4 days

Total time= 19+4= **23 Days**

Budget:

Excavate= Workers + material	$= (120*2)*6 + 1500$	= \$2940
Frame the wall: Workers +material	$= (\$160*4)*8 + \800	= \$ 5290
Install Internal plumbing	$= (\$ 1600+ \$700)$	= \$2300
Install electricity		\$1300
Pour Concrete		\$3290
Install pump and filter		\$3200
Total cost:		\$18,322