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PERSONNEL SCHEDULING FOR AN AMUSEMENT PARK 2

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Maximize the preference of the employees' schedules, taking into account seniority, while maintaining the schedule that minimizes payroll costs.

Sch.	Days off	Employees	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Α	Sunday, Monday	3	0	0	1	1	1	1	1
В	Monday, Tuesday	5	1	0	0	1	1	1	1
С	Tuesday, Wed.	7	1	1	0	0	1	1	1
D	Wed., Thursday	3	1	1	1	0	0	1	1
E	Thursday, Friday	7	1	1	1	1	0	0	1
F	Friday, Saturday	0	1	1	1	1	1	0	0
G	Saturday, Sunday	0	0	1	1	1	1	1	0

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Schedule Totals 25

Total Demand:

Pay/Employee/Day: Payroll/Week: \$40 **\$5,000**

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USER TYPE

Please select

							Schedule assigned to					
	Seniority (Y		A <i>E</i>	з с	· · · · · ·) E		A B		: [)	ETota
Employee 1	5	5	3	2	4	1	0	0	0	0	0	II/
Employee 2	6	3	4	5	2	1	0	0	0	0	0	C
Employee 3	4	4	3	2	1	5	0	0	0	0	0	l d
Employee 4	7	3	4	2	1	5	0	0	0	0	0	Lo
Employee 5	3	1	3	4	2	5	0	0	0	0	0	C
Employee 6	2	4	5	3	1	2	0	0	0	0	0	E
Employee 7	7	3	4	2	5	1	0	0	0	0	0	C
Employee 8	5	2	4	3	1	5	0	0	0	0	0	C
Employee 9	3	4	3	2	5	1	0	0	0	0	0	
Employee 10	2	3	4	2	5	1	0	0	0	0	0	ΤŶ
Employee 11	5	4	2	5	1	3	0	0	0	0	0	0
Employee 12	7	5	3	2	4	1	0	0	0	0	0	to
Employee 13	5	1	2	3	4	5	0	0	0	0	0	C
Employee 14	4	4	2	5	3	1	0	0	0	0	0	_ C
Employee 15	9	5	4	3	1	2	0	0	0	0	0	Ld
Employee 16	5	3	5	1	4	2	0	0	0	0	0	C
Employee 17	6	4	3	5	2	1	0	0	0	0	0	C
Employee 18	7	3	4	2	5	1	0	0	0	0	0	
Employee 19	6	5	4	3	2	1	0	0	0	0	0	Αf
Employee 20	4	3	5	4	2	1	0	0	0	0	0	0
Employee 21	3	2	5	1	3	4	0	0	0	0	0	УĊ
Employee 22	4	2	5	1	3	4	0	0	0	0	0	C
Employee 23	6	5	2	4	3	1	0	0	0	0	0	_0
Employee 24	6	3	1	5	2	4	0	0	0	0	0	F
Employee 25	7	1	4	3	5	2	0	0	0	0	0	C
					Totals		0	0	0	0	0	

Demand

COMPANY OR UNIVERSITY

Problem	
We now extend the model as seen in Sched2 by adding another factor. When deciding which employee	COUNTRY CODE
goes on which schedule, the amusement park decides to let the seniority of the employees affect the	
decision. The seniority is simply measured in years of employment at the park. How should the company	Spain +34
assign the schedules to the employees?	
Solution	TELEPHONE
The solution is almost identical to the one in Sched2. The difference is that instead of just adding the	
preferences, we now weight them by multiplying each preference by the employee's seniority.	
Remarks	
There are many ways of adjusting for seniority and other factors. By increasing and decreasing the size of	Register for Access
the seniority factors, you can adjust the importance of the seniority to the desired level.	Tregister for 7 cocce

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