



Selection Task: Design a web application on ‘Trainer Allocation’.

The Scenario:

RACE, an aptitude training company, conducts various training programs for undergraduate colleges across the Indian Subcontinent. It employs professionals to deliver the training program. Each trainer at RACE is categorized according to two parameters; the domains that he is familiar with and the level of expertise for the particular domain. The domain indicates the various topics that he is well versed in (E.g. Verbal Ability, Logical Ability, Quantitative Aptitude, etc.) The level of expertise indicates on a scale of 1 to 5, how skilled the trainer in the particular domain is. Level 1 corresponds to lesser familiarity with the domain, whereas Level 5 corresponds to complete mastery on the domain.

The colleges that register for RACE’s training programs themselves are categorized based on various parameters. These include requirements such as domains, level of expertise expected, number of sessions to be held and training program dates. Based on these two pieces of information, the Operations Head at RACE has a regular commitment of mapping trainers to training programs. With the increase in the number of colleges enrolling for RACE’s training program, the management now has to employ more personnel for the task or turn to technology for their needs...

Task Description:

Design an interface wherein trainers can be added to a given database along with their domains and level of expertise. Also, design another interface which stores information such as colleges, necessary domains, level of expertise, number of sessions and training program date can be entered. Given a set of trainers with different domains & levels of expertise, the application has to allocate them to each training program based on area and level of expertise required. Under the condition that multiple trainers are available for a particular training program, instead of direct allocation, the list of these trainers must be made available for the user to choose from.

Trainer	Domain	Level of Expertise
Raj	LA	1
Raj	VA	2

College	Domains	Level	Number of Sessions	Training Program Date
CEG	LA	1	1	19-03-2014 to 25-03-2014
	VA	2	1	
VIT	VA	Any level	2	21-03-2014,23-03-2014

Please Note:

1. Each day has 2 sessions of 4 hours each (Forenoon and Afternoon sessions).
2. The tables provided above are only indicative.