Yarmouk University

Faculty of Information Technology and Computer Sciences

Department of

Information Systems

DB Design Worksheet

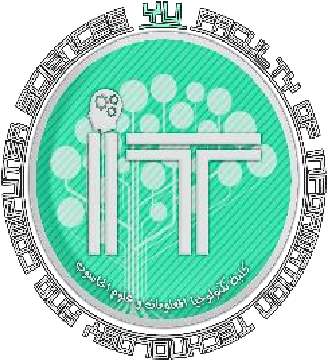
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Data Base Lab



**Suppose you are given the following requirements for a simple database for the YU university.**

* The university offers one or more programs.
* A program is made up of one or more courses.
* A student must enroll in a program.
* A program must have at least 20 students.
* A student takes the courses that are part of her program.
* A course that has less than five registered students will be dropped
* A program has a name, a program identifier, the total credit points required to graduate, and the year it commenced.
* A course has a name, a course identifier, a credit point value, and the year it commenced.
* Students have one or more given names, a surname, a student identifier, a date of birth, and the year they first enrolled. We can treat all given names as a single object—for example,

“John Paul.”

* When a student takes a course, the year and semester he attempted it are recorded. When he finishes the course, a grade (such as A or B) and a mark (such as 60 percent) are recorded.
* Each course in a program is sequenced into a year (for example, year 1) and a semester (for example, semester 1).

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