

Course work

“Question 1”

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**Question 1.**

a) Design the Entity-Relationships diagram to reflect all the entities with their attributes as well as the relationships between these entities. You should annotate the cardinality ratios of each relationship.[2 marks]

**Answer:**

* Organization and Disabled: One to Many.
* Organization and Counselor: One to Many.
* Organization and Volunteer: One to Many.
* Disabled and Counselor: One to Many.
* Disabled and Volunteer: Many to Many.

Изображение выглядит как компьютер

Автоматически созданное описание

b) Describe the changes (if any) that need to be made to the Entity-Relationship diagram you have given in a) before it can be implemented as tables in SQL. Should you identify any change (even adding/removing entities), redraw a new E/R diagram. If not, explain why no changes are necessary. [3 marks]

**Answer:**

I think we should add the registration time. Because, firstly, if we want to find out when this user registered. Secondly, for example, if we are told how many disabled persons we have served this year. we will not be able to display this data.

I also added a new entity for Registration. The Registration entity has two attributes “Registration Number (PK)” and “Registration Date”. The relationship between Registration and the Disabled One to Many.

* Organization and Disabled: One to Many.
* Organization and Counselor: One to Many.
* Organization and Volunteer: One to Many.
* Disabled and Counselor: One to Many.
* Disabled and Volunteer: Many to Many.
* Registration and Disabled: One to Many

Изображение выглядит как монитор, экран, дисплей, телевидение

Автоматически созданное описание