

Question 4

To include the relationships described in question 4, one way our new Contact interface could look like is as follows:

```
export type Role = "admin" | "manager" | "supervisor" | "general user";

export type Contact = {
  id: number,
  firstName: string,
  lastName: string,
  phoneNumber: string,
  email: string,
  projects: ProjectContact[]
}

export type ProjectContact = {
  id: number,
  Project: Project,
  role: Role
}

export type Project = {
  id: number,
  name: string,
  project_duration: number,
  start_date: Date,
  ...
}
```

Contact will now have a new projects field which is an array of 'ProjectContact' entities. 'ProjectContact' includes an id, project entity, and the role for the contact of that specific project.

Here is the ER diagram to depict the relationships:

