Create following three entities with properties mentioned below to store in any relational or non-relational database of your choice

**Organization**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Column Configuration** | **Comments** |
| ID | Number | Auto generation logic needs to be implemented for this |
| Name | Character |  |
| CODE | Character | This needs to be unique in the table |
| Address | Large text field |  |

**Department**

|  |  |  |
| --- | --- | --- |
| Column Name | Column Configuration | Comments |
| ID | Number | Auto generation logic needs to be implemented for this |
| Name | Character |  |
| CODE | Character | This needs to be unique in the table |
| Parent Department | Number | Should contain parent department information |
| Organization ID | Number | Contains the association of department to organization entity |

**Employee**

|  |  |  |
| --- | --- | --- |
| Column Name | Column Configuration | Comments |
| ID | Number | Auto generation logic needs to be implemented for this |
| Name | Character |  |
| First Name | Character |  |
| Last Name | Character |  |
| Age | Number |  |
| Salary | Double | Salary of the individual |
| Department Identifier | Long | Contains association of user to department |

1. Implement REST APIs to persist above mentioned three entities and rest of these apis
   1. Get all the child departments for a given department
   2. Get count of employees at each child department for a given department
   3. Get the average salary at each department level