Queries and Mutations with Examples:

Getting a department

```
{
  departments(id: "ddd31c01-a30d-4e72-8e8b-d710fcc4fb56"){
   name
  }
}

Output:
{
 "data": {
  "departments": [
   {
    "name": "HR"
   }
  ]
 }
}
```

Adding a department

```
mutation{
  addDept(_id:"ddd31c01-a30d-4e72-8e8b-d7dwdkcc4fb56",name:"Acc"){
   name
  }
}

Output:
{
 "data": {
  "addDept": null
 }
}
```

Updating a department

```
mutation{
  updateDept(id:"ddd31c01-a30d-4e72-8e8b-d7dwdkcc4fb56", name:"newname"){
   name
  }
}

Output:
{
 "data": {
```

```
      "updateDept": {
        "name": "Acc"
      }
    }
  }
```

Delete a department

```
mutation{
  deleteDept(id:"ddd31c01-a30d-4e72-8e8b-d7dwdkcc4fb56"){
    name
  }
}
```

Output:
```
{
  "data": {
    "deleteDept": {
      "name": "newname"
    }
  }
}
```

Getting a person

```
{
  people(id:"0538871b-724c-4f36-a511-b0f4b9251d1a"){
    firstName
    lastName
    jobTitle
    managerId
    departmentId
  }
}
```

Output:
```
{
  "data": {
    "people": [
      {
        "firstName": "Novella",
        "lastName": "Wolf",
        "jobTitle": "Direct Accountability Analyst",
        "managerId": "e499e3fb-d0d0-442b-ad6c-c44b4eb9038a",
        "departmentId": "ddd31c01-a30d-4e72-8e8b-d710fcc4fb56"
      }
```

```
        ]
      }
    }
```

Adding a person

```
mutation {
  addPeople(
    _id: "9ec7b46c-898f-4154-9c02-0278ba08167c",
    firstName: "Anna",
    lastName: "Gottlieb",
    jobTitle: "Dynamic Accounts Executive",
    managerId: "a8f51791-9a06-46a3-a125-f14bdf401e55",
    departmentId: "2b9edccb-41fc-4fc5-b832-ac86a034a877"
  )
  {
    _id
  }
}
```

Output:
```
{
  "data": {
    "addPeople": null
  }
}
```

Updating a person

```
mutation{
  updatePeople(
    id:"9ec7b46c-898f-4154-9c02-0278ba08167c",
    firstName: "Anna",
    lastName: "Star",
    jobTitle: "Accountability Analyst"
  ){
    firstName
    lastName
    jobTitle
  }
}
```

Output:
```
{
  "data": {
```

```
       "updatePeople": {
        "firstName": "Anna",
        "lastName": "Star",
        "jobTitle": "Accountability Analyst"
       }
     }
   }
```

Deleting a person

```
      mutation{
       deletePeople(id: "9ec7b46c-898f-4154-9c02-0278ba08167c"){
        firstName
       }
      }

      Output:
      {
       "data": {
        "deletePeople": {
         "firstName": "Anna"
        }
       }
      }
```

Getting a Person's Mangers – Goes upto CEO

```
      {
       getManagers(id:"0538871b-724c-4f36-a511-b0f4b9251d1a") {
        _id
        firstName
        lastName
        department
        jobTitle
        manages {
         _id
         firstName
         lastName
         department
         jobTitle
         manages {
          _id
          firstName
          lastName
```

```
      department
      jobTitle
      manages {
        _id
        firstName
        lastName
        department
        jobTitle
        manages {
          firstName
          lastName
          department
          jobTitle
        }
      }
    }
  }
}
```

Note: *On executing this with even one level – It will output the tree level on the console and the query can be updated accordingly to show all the nesting. Also, it won't show who the queried person manages if any with this query. For that use isManagerOf query which is shown after this.*
Example for the current person queried the console shows:
Leaf node for user in People DB with id: 0538871b-724c-4f36-a511-b0f4b9251d1a is at level: 4

Output:
```
{
  "data": {
    "getManagers": [
      {
        "_id": "2798c35b-5b8f-4a5d-9858-0a818d48cbef",
        "firstName": "Orval",
        "lastName": "Hauck",
        "department": "Management",
        "jobTitle": "CEO",
        "manages": [
          {
            "_id": "d6a7b78e-7a58-43a0-a7a6-03ceebd5d750",
            "firstName": "Christ",
            "lastName": "Pfannerstill",
            "department": "Marketing",
            "jobTitle": "Chief Implementation Director",
            "manages": [
              {
```

```json
    "_id": "6a56a153-05d6-4ce3-b6ec-c629a3815d81",
    "firstName": "Kody",
    "lastName": "Conn",
    "department": "Management",
    "jobTitle": "Investor Data Associate",
    "manages": [
      {
        "_id": "e499e3fb-d0d0-442b-ad6c-c44b4eb9038a",
        "firstName": "Myrl",
        "lastName": "Sanford",
        "department": "Management",
        "jobTitle": "Dynamic Configuration Orchestrator",
        "manages": [
          {
            "firstName": "Hollis",
            "lastName": "Konopelski",
            "department": null,
            "jobTitle": "Global Assurance Supervisor"
          },
          {
            "firstName": "Novella",
            "lastName": "Wolf",
            "department": "HR",
            "jobTitle": "Direct Accountability Analyst"
          }
        ]
      }
    ]
  }
}
```

Getting list of people who work under the person (only immediate list)

```
{
  isManagerOf(id:"d6a7b78e-7a58-43a0-a7a6-03ceebd5d750") {
    firstName
    lastName
    department
    jobTitle
```

```
      manages {
        _id
        firstName
        lastName
        department
        jobTitle
      }
    }
}

Output:
{
  "data": {
    "isManagerOf": [
      {
        "firstName": "Christ",
        "lastName": "Pfannerstill",
        "department": "Marketing",
        "jobTitle": "Chief Implementation Director",
        "manages": [
          {
            "_id": "6fb2fdc9-7216-4292-b989-4923520915ca",
            "firstName": "Torey",
            "lastName": "Schmeler",
            "department": "Executive",
            "jobTitle": "Dynamic Branding Supervisor"
          },
          {
            "_id": "83f61bbb-e9e7-46f4-8e23-7005d7d29636",
            "firstName": "Prudence",
            "lastName": "Grant",
            "department": "Operations",
            "jobTitle": "Global Accountability Director"
          },
          {
            "_id": "6a56a153-05d6-4ce3-b6ec-c629a3815d81",
            "firstName": "Kody",
            "lastName": "Conn",
            "department": "Management",
            "jobTitle": "Investor Data Associate"
          },
          {
            "_id": "92bb1af6-a990-46a7-9588-458c84783e45",
            "firstName": "Chadrick",
            "lastName": "Parisian",
            "department": "Operations",
            "jobTitle": "Direct Operations Consultant"
```

```
        },
        {
          "_id": "49f88e7f-a975-4a24-8138-a87e943200c7",
          "firstName": "Thurman",
          "lastName": "Okuneva",
          "department": "Sales",
          "jobTitle": "Direct Functionality Administrator"
        },
        {
          "_id": "ffc3f5f4-3494-4f3e-b64a-4c5058d0ea61",
          "firstName": "Mateo",
          "lastName": "Schowalter",
          "department": "Management",
          "jobTitle": "Principal Web Manager"
        }
      ]
    }
  ]
}
}
```

Getting people by name (you can either provide firstName or lastName or both)

```
{
  getPeopleByName(firstName: "Novella",lastName:"Wolf"){
    firstName
    lastName
    jobTitle
  }
}

Output:
{
  "data": {
    "getPeopleByName": [
      {
        "firstName": "Novella",
        "lastName": "Wolf",
        "jobTitle": "Direct Accountability Analyst"
      }
    ]
  }
}
```

Get people by Job Title

```
{
  getPeopleByJob(jobTitle: "Dynamic Accounts Executive"){
   _id
   firstName
   lastName
   jobTitle
   managerId
   departmentId
  }
}
```

Output:
```
{
 "data": {
  "getPeopleByJob": [
   {
    "_id": "9eb5b46c-866f-4154-9c02-0278ba08167c",
    "firstName": "Luis",
    "lastName": "Gottlieb",
    "jobTitle": "Dynamic Accounts Executive",
    "managerId": "a8f51791-9a06-46a3-a125-f14bdf401e55",
    "departmentId": "2b9edccb-41fc-4fc5-b832-ac86a034a877"
   }
  ]
 }
}
```