Employee Details Database

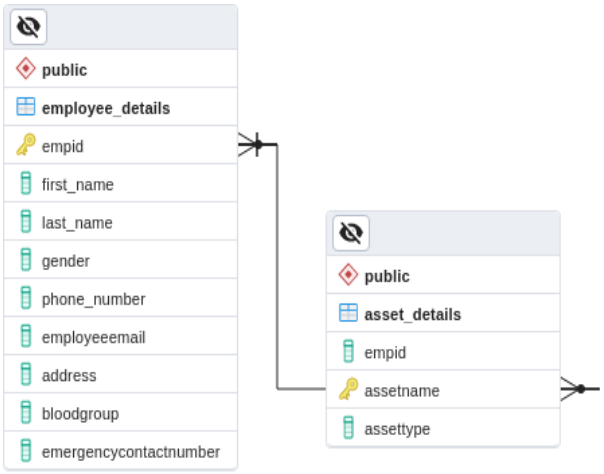
1. Database Design

   Two tables named employee_details and asset_details are created.
   Relations are as follows :

   employee_details(empid, firstname, lastname, gender, phonenumber,employeeemail, address, bloodgroup, emergencycontactnumber)

   asset_details(empid, assetname, assettype)

2. Database Structure



3. Create Details

   Employee details table creation

```
CREATE TABLE IF NOT EXISTS EMPLOYEE_Details(
   EmpID VARCHAR(20) NOT NULL PRIMARY KEY,
   FIRST_NAME CHAR(20) NOT NULL,
   LAST_NAME CHAR(20),
   GENDER CHAR(1),
```

```
   PHONE_NUMBER NUMERIC,
   EmployeeEmail domain_email,
   Address VARCHAR(80),
   BloodGroup VARCHAR(2),
   EmergencyContactNumber NUMERIC
```

Asset details table creation

```
CREATE TABLE IF NOT EXISTS ASSET_Details(
   EmpID VARCHAR(20) NOT NULL,
   AssetName text[] NOT NULL PRIMARY KEY,
   AssetType VARCHAR(100),
   FOREIGN KEY(EmpID) REFERENCES EMPLOYEE_Details(EmpID)
```

Mapping as per requirement

```
# execute the read  statement
       sql = """select * from (SELECT * FROM employee_details) as
emp_table inner join
       (SELECT empid,assetname from asset_details)
       as asset_table on emp_table.empid = asset_table.empid"""
       #sql = "SELECT empid,assetname,count(DISTINCT assetname)
from asset_details as asset group by empid,assetname"
       cursor.execute(sql)
       output = cursor.fetchall()
       output_dictionary = {"EmployeeList":[]}
       for each_output in output:
           asset_count = tuple(str(len(list(each_output)[-1])))

output_dictionary["EmployeeList"].append(dict(zip(column_names,
each_output+asset_count)))

       #save output
       file = open ("output.json","w")
       file.write(str(output_dictionary))
       file.close()
```

4. Json file for Employee Dashboard

```
{
  "EmployeeList": [
    {
      "empid": "p34",
```

```
      "first_name": "pushpahasa          ",
      "last_name": "N S                  ",
      "gender": "M",
      "phone_number": 8861844185,
      "employeeemail": "nspushpahasa@gmail.com",
      "address": "No 141 Mathru Krupa 3rd main",
      "bloodgroup": "O+",
      "emergencycontactnumber": 9008622255,
      "assetnames": [
        "pen",
        "paper",
        "laptop",
        "ipad"
      ],
      "asset_count": "4"
    },
    {
      "empid": "p35",
      "first_name": "Radha              ",
      "last_name": "N S                 ",
      "gender": "F",
      "phone_number": 9990022445,
      "employeeemail": "nsp@yahoo.com",
      "address": "No 121 SreeHari",
      "bloodgroup": "A",
      "emergencycontactnumber": 9874560321,
      "assetnames": [
        "Table",
        "Chair",
        "Desk",
        "Lamp",
        "Sofa"
      ],
      "asset_count": "5"
    }
  ]
}
```