Employee Details Database

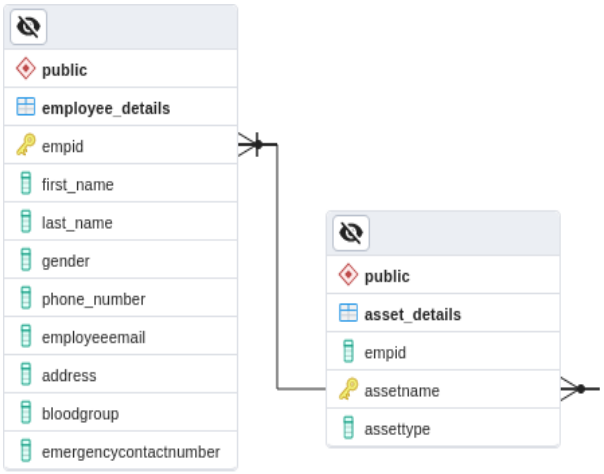
1. Database Design

   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) UNIQUE 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) UNIQUE NOT NULL,
   AssetName text[] UNIQUE NOT NULL PRIMARY KEY,
   AssetType text[] UNIQUE NOT NULL,
   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 *,ARRAY_LENGTH(assetname,1) from asset_details)
       as asset_table on emp_table.empid = asset_table.empid"""

       cursor.execute(sql)
       output = cursor.fetchall()

       output_dictionary = {"EmployeeList":[]}
       for each_output in output:
           rem_list = list(each_output)
           for i in range(3):
               del rem_list[-2]
           rem_list = [rem.strip() if isinstance(rem, str) else
rem for rem in rem_list]

           keys = list(each_output)[-2]
           values = list(each_output)[-3]

           result_dict = {}
           for k, v in zip(keys, values):
               if k in result_dict:
                   result_dict[k].append(v)
               else:
                   result_dict[k] = [v]
           #print(each_output)
```

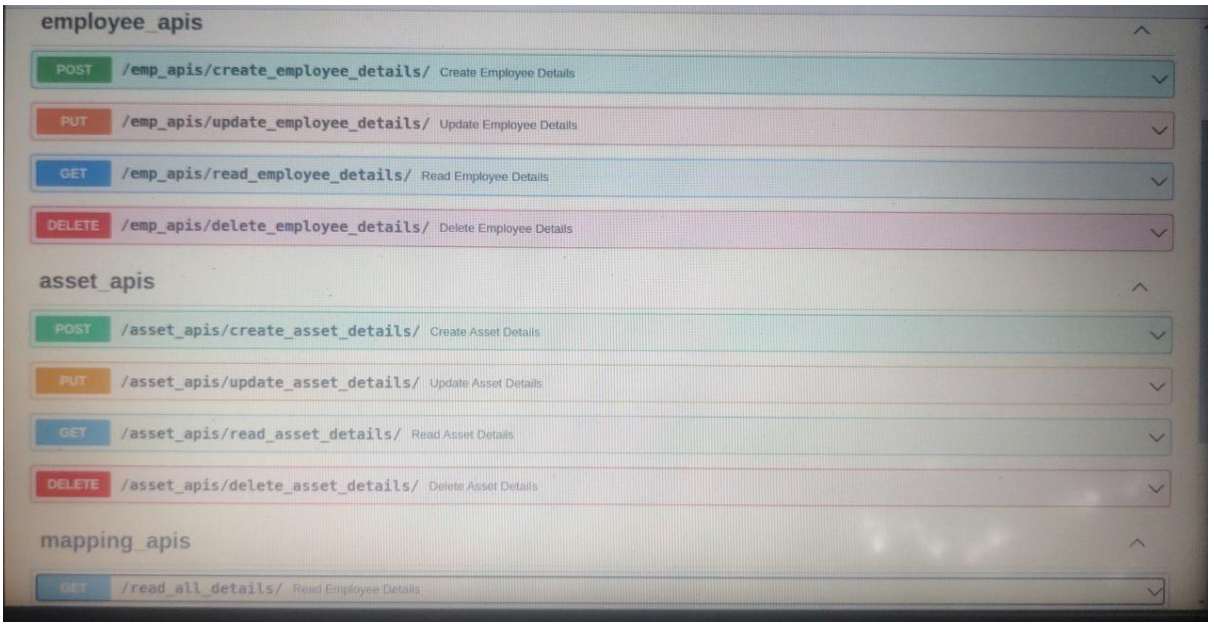
```
            #print(rem_list+[result_dict])

output_dictionary["EmployeeList"].append(dict(zip(column_names,
rem_list+[result_dict])))

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

4. Output:

Swigger UI



Json file for Employee Dashboard


```
{'EmployeeList': [{'empid': 'p34', 'first_name': 'pushpahasa',
'last_name': 'N S', 'gender': 'M', 'phone_number':
Decimal('8861844185'), 'employeeemail': 'nspushpahasa@gmail.com',
'address': 'No 141 Mathru Krupa 3rd main', 'bloodgroup': 'O+',
'emergencycontactnumber': Decimal('9008622255'), 'asset_counts': 5,
'asset_names': {'ele': ['laptop'], 'lux': ['car,AC', 'AC'],
'furniture': ['table', 'chair']}}, {'empid': 'p35', 'first_name':
'Radha', 'last_name': 'N S', 'gender': 'F', 'phone_number':
```

Decimal('9990022445'), 'employeeemail': 'nsp@yahoo.com', 'address': 'No 121 SreeHari', 'bloodgroup': 'A', 'emergencycontactnumber': Decimal('9874560321'), 'asset_counts': 2, 'asset_names': {'ele': ['laptop'], 'furniture': ['chair']}}]}