

Employee Details Database

1. Database Design

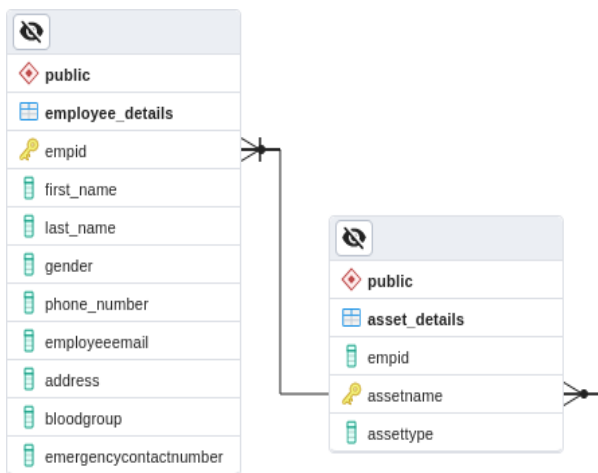
Two tables named `employee_details` and `asset_details` are created.

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

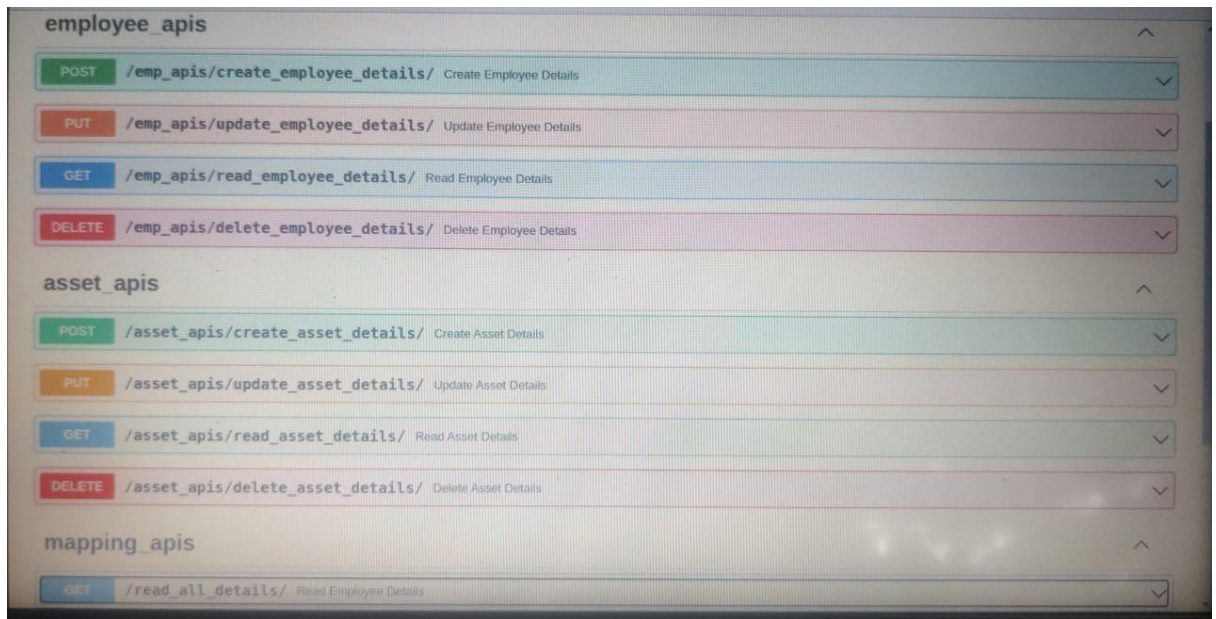
```
CREATE TABLE IF NOT EXISTS ASSET_Details(  
    EmpID VARCHAR(20) NOT NULL,  
    AssetName text[] NOT NULL PRIMARY KEY,  
    AssetType VARCHAR(100),  
    FOREIGN KEY(EmpID) REFERENCES EMPLOYEE_Details(EmpID)
```

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. Output:

Swagger UI



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"
}
]
```