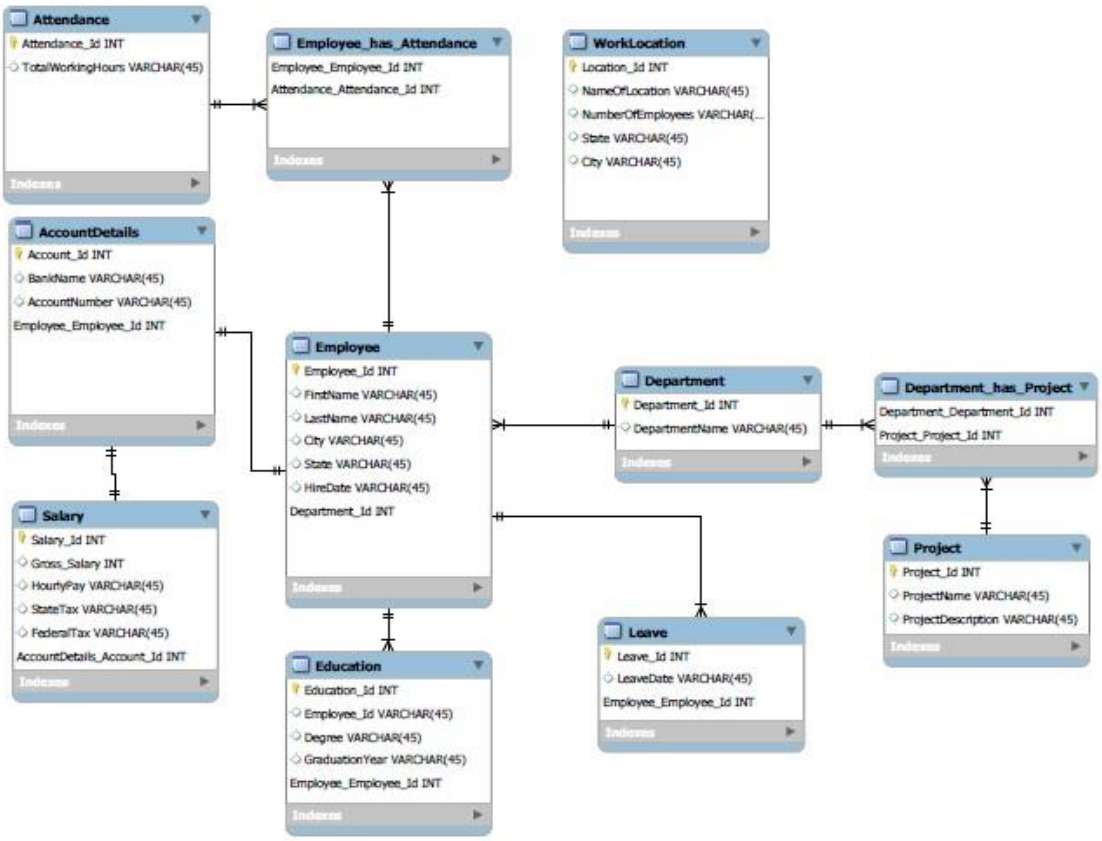
SYSTEM DESIGN

1. EER DIAGRAM



2. TABLE STRUCTURE

Employee

- Employee_Id (INT, PRIMARY KEY)
- First_Name (VARCHAR)
- Last_Name (VARCHAR)
- Hire_Date (DATE)
- City (VARCHAR)
- State (VARCHAR)

Department

- Department_Id (INT, PRIMARY KEY)
- Department_Name (VARCHAR)

Salary

- Salary_Id (INT, PRIMARY KEY)
- Gross_Salary (INT)
- Hourly_Pay (INT)
- State_Tax (INT)
- Federal_Tax (INT)
- Account_Id (INT, FOREIGN KEY)

DepartmentProject

- Department_Id (INT, PRIMARY KEY, FOREIGN KEY)
- Project_Id (INT, PRIMARY KEY, FOREIGN KEY)

Project

- Project_Id (INT, PRIMARY KEY)
- Project_Name (VARCHAR)
- Project_Description (VARCHAR)

AccountDetails

- Account_Id (INT, PRIMARY KEY)
- Bank_Name (VARCHAR)
- Account_Number (VARCHAR)
- Employee_Id (INT, FOREIGN KEY)

Education

- Education_Id (INT, PRIMARY KEY)
- Employee_Id (INT, FOREIGN KEY)
- Degree (VARCHAR)
- Graduation_Year (INT)

Restdays

- Leave_Id (INT, PRIMARY KEY)
- Employee_Id (INT, FOREIGN KEY)
- Leave_date (DATE)

EmployeeAttendance

- Employee_Id (INT, PRIMARY KEY, FOREIGN KEYS)
- Attendance_Id (INT, PRIMARY KEY)

Attendance

- Attendance_Id (INT, PRIMARY KEY)
- Hours_Worked (INT),

WorkLocation

- Location_Id (INT, PRIMARY KEY)
- Location (VARCHAR)
- Number_Of_Employees (INT)
- City (VARCHAR)
- State (VARCHAR)

3. SQL SCHEMA

```
CREATE TABLE Employee(
  Employee_Id int(6) primary key,
  First_Name VARCHAR(25),
  Last_Name VARCHAR(25),
  Hire_Date DATE,
  City VARCHAR(25),
  State VARCHAR(25)
);
```

```
CREATE TABLE Education(
Education_Id int primary key,
Employee_Id int,
Degree VARCHAR(30),
Graduation_Year int(4),
FOREIGN KEY (Employee_Id) REFERENCES Employee(Employee_Id)
);
```

```
CREATE TABLE Work_Location(
  Location_Id INT primary key,
  Location VARCHAR(25),
  Number_Of_Employees int,
  City VARCHAR(25),
  State VARCHAR(25)
  );
```

```
CREATE TABLE Employee_Attendance(
 Employee_Id int,
 Attendance_Id int,
PRIMARY KEY (Employee_Id,Attendance_Id),
 FOREIGN KEY (Employee_Id) REFERENCES Employee(Employee_Id),
 FOREIGN KEY (Attendance_Id) REFERENCES Attendance(Attendance_Id)
 );
```

```
CREATE TABLE Attendance(
Attendance_Id int primary key,
Hours_Worked int
);
```

```
CREATE TABLE Restdays(
  Leave_Id int primary key,
  Employee_Id int,
  Leave_date DATE,
  FOREIGN KEY (Employee_Id) REFERENCES Employee(Employee_Id)
  );
```