**Project Purpose:**

The project purpose is to create Employee table so that the organization can have a clear idea about their employees and we also create data base schemas i.e., we create 3 tables such as employee table, department table, grades of employee.

In employee table there are basic details like id, name, dob, address, contact details, job title, etc..

In Department table there are details such as the particular employee in a particular department.

In grades of employee table there are details such as grades of employee so that the organization can have a clear idea of assigning employee in specific department

**Usage:**

We can directly setup this code for creating table, the organization can perform any type of operation on this table here we use insert and select commands. We can use commands like delete update set operations DDL, DML, DCL, TCL, etcc..

**Employee table:**

**//creation of employee table:**

CREATE TABLE employee (

employee\_id INT PRIMARY KEY,

employee\_name VARCHAR(50),

date\_of\_birth DATE,

address VARCHAR(100),

contact\_number VARCHAR(15),

hire\_date DATE,

job\_title VARCHAR(50),

salary DECIMAL(10, 2)

);

**//inserting some rows into the employee table:**

INSERT INTO employee (employee\_id, employee\_name, date\_of\_birth, address, contact\_number, hire\_date, job\_title, salary)

VALUES

(1, 'John Smith', '1985-04-15', '123 Main Street, Cityville, USA', '+1 (555) 123-4567', '2010-09-01', 'Software Engineer', 75000.00),

(2, 'Jane Doe', '1990-11-10', '456 Park Avenue, Townsville, USA', '+1 (555) 987-6543', '2015-03-15', 'Marketing Manager', 85000.00),

(3, 'Michael Johnson', '1988-08-22', '789 Oak Road, Villageland, USA', '+1 (555) 222-3333', '2012-06-30', 'Sales Representative', 60000.00),

(4, 'Emily Williams', '1992-02-28', '246 Elm Street, Hamletown, USA', '+1 (555) 444-5555', '2018-11-20', 'Human Resources Specialist', 70000.00),

(5, 'Robert Lee', '1980-12-05', '135 Pine Avenue, Forestville, USA', '+1 (555) 777-8888', '2005-01-10', 'Project Manager', 90000.00);

**// retrieving information from employee table**

select \* from employee

**Department table**

**//creation of department table:**

CREATE TABLE department (

department\_id INT PRIMARY KEY,

department\_name VARCHAR(50),

department\_manager\_id INT,

manager\_name VARCHAR(50),

manager\_salary DECIMAL(10, 2),

FOREIGN KEY (department\_manager\_id) REFERENCES employee (employee\_id)

);

**//inserting some rows into the department table:**

INSERT INTO department (department\_id, department\_name,department\_manager\_id, manager\_name, manager\_salary) VALUES

(1, 'Marketing', 2, 'Jane Doe', 85000.00),

(2, 'Sales', 3, 'Michael Johnson', 60000.00),

(3, 'Human Resources', 4, 'Emily Williams', 70000.00),

(4, 'Engineering', 1, 'John Smith', 75000.00),

(5, 'Finance', 5, 'Robert Lee', 90000.00);

**//retrieving information from department table**

select \* from department;

**Grades of employee table**

**//creation of grades of employee table:**

CREATE TABLE grades\_of\_employee (

grade\_id INT PRIMARY KEY,

employee\_id INT,

grade VARCHAR(5),

FOREIGN KEY (employee\_id) REFERENCES employee (employee\_id)

);

**//inserting some rows into the grades of employee table:**

INSERT INTO grades\_of\_employee (grade\_id, employee\_id, grade)

VALUES

(1, 1, 'A'),

(2, 2, 'B'),

(3, 3, 'C'),

(4, 4, 'B+'),

(5, 5, 'A-');

**// retrieving information from grades of employee table**

select \* from grades\_of\_employee;