**-- Stored Procedure**

**-- Use Database SQL\_SP**

**-- LAB – 9**

-- Student

CREATE TABLE Student (

RNo int Primary Key,

Name varchar(50) NOT NULL,

Branch varchar(50) NOT NULL)

-- Result

CREATE TABLE Result(

RNo int NULL FOREIGN KEY REFERENCES Student(RNo),

SPI decimal(4,2) NOT NULL)

**-- LAB – 10**

-- Department

CREATE TABLE Department(

DepartmentID Int Primary Key,

DepartmentName Varchar(100) Not Null Unique)

-- Designation

CREATE TABLE Designation(

DesignationID Int Primary Key,

DesignationName Varchar(100) Not Null Unique)

-- Person

CREATE TABLE Person(

WorkerID Int IDENTITY(101,1) PRIMARY KEY,

FirstName Varchar(100) Not Null,

LastName Varchar(100) Not Null,

Salary Decimal(8,2) Not Null,

JoiningDate Datetime Not Null,

DepartmentID Int Null FOREIGN KEY REFERENCES Department(DepartmentID),

DesignationID Int Null FOREIGN KEY REFERENCES Designation(DesignationID))

**-- LAB – 11**

-- Employees

CREATE TABLE Employees(

Emp\_ID int Primary Key,

Emp\_Name varchar(50) NOT NULL,

Emp\_Salary decimal(8,2),

Department varchar(50) NOT NULL,

Hire\_Date date NOT NULL)

-- Inserting Data

INSERT INTO Employees (Emp\_ID , Emp\_Name, Emp\_Salary, Department, Hire\_Date)

VALUES

(1, 'John', 50000.00, 'Sales', '2022-01-15'),

(2, 'Jane', 60000.00, 'Marketing', '2021-05-10'),

(3, 'Mike', 75000.00, 'IT', '2020-09-20'),

(4, 'Emily', 45000.00, 'Finance', '2023-02-28'),

(5, 'David', 80000.00, 'IT', '2021-11-05');

**-- User Defined Functions**

**-- Use Database SQL\_UDF**

**-- LAB – 12**

-- Employee

CREATE TABLE Employee(

EID int Primary Key,

EName varchar(100),

Gender varchar(100),

JoiningDate date,

Salary decimal(8,2),

City varchar(100))

-- Inserting Data

INSERT INTO Employee (EID, EName, Gender, JoiningDate, Salary, City)

VALUES

(1, 'Nick', 'Male', '01-JAN-13', 4000, 'London'),

(2, 'Julian', 'Female', '01-OCT-14', 3000, 'New York'),

(3, 'Roy', 'Male', '01-JUN-16', 3500, 'London'),

(4, 'Tom', 'Male', NULL, 4500,'London'),

(5, 'Jerry', 'Male', '01-FEB-13', 2800, 'Sydney'),

(6, 'Philip', 'Male', '01-JAN-15', 7000, 'New York'),

(7, 'Sara', 'Female', '01-AUG-17', 4800, 'Sydney'),

(8, 'Emily', 'Female', '01-JAN-15', 5500, 'New York'),

(9, 'Michael', 'Male', NULL, 6500, 'London'),

(10, 'John', 'Malev', '01-JAN-15', 8800, 'London');

**-- LAB – 13**

-- Employee\_

CREATE TABLE Employee\_ (

Employee\_ID int PRIMARY KEY,

First\_Name varchar(100),

Last\_Name varchar(50),

Age int,

Department varchar(50))

-- Inserting data

INSERT INTO Employee\_ (Employee\_ID, First\_Name, Last\_Name, Age, Department)

VALUES

(1, 'John', 'Doe', 30, 'HR'),

(2, 'Jane', 'Smith', 25, 'Finance'),

(3, 'Michael', 'Johnson', 35, 'IT'),

(4, 'Emily', 'Williams', 28, 'Marketing'),

(5, 'Robert', 'Brown', 22, 'IT');

**-- VIEW, Stored Procedure and User Defined Functions**

**-- LAB – 14**

**-- Use Database VIEW\_SP\_UDF\_SQL**

-- Department

CREATE TABLE Department(

DepartmentID Int Primary Key,

DepartmentName Varchar(100) Not Null Unique)

-- Employee

CREATE TABLE Employee(

EmployeeID int PRIMARY KEY,

FirstName varchar(100) Not Null,

LastName varchar(50) Not Null,

Age int Not Null,

DepartmentID varchar(50) Null FOREIGN KEY REFERENCES Department(DepartmentID)

-- Inserting Data

INSERT INTO Department

VALUES

(1, 'HR'),

(2, 'IT'),

(3, 'Finance'),

(4, 'Marketing')

INSERT INTO Employee

VALUES

(1, 'Ram Charan', 30, 1),

(2, 'Laxman Prasad', 25, 2),

(3, 'Siya Gupta', 28, 1),

(4, 'Ankit Trivedi', 32, 2)