1. Write a Query for creating new Database Named “Microsoft\_Corporation”. Use currently created Database. Create at-least Three Tables “EMP1, EMP2, EMP3” in “Company”. EMP1: Includes Professional Information of Employee, EMP2: Personal Information of Employee and EMP3; Salary related records, EMP4: Empty Table. Attributes are:
2. EMP1: Emp\_Id, Emp\_Name, Emp\_Dept, Emp\_Des, Emp\_Contact, Emp\_Email, Emp\_Qualification, Emp\_Research\_Area.
3. EMP2: Emp\_Id, Emp\_Father\_Name, Emp\_Mother\_Name, Emp\_DOB, Emp\_Address, Emp\_Gender, Emp\_Religion.
4. EMP3: Emp\_Id, Emp\_Date\_of\_Joining, Emp\_Basic\_Salary, Emp\_TA\_DA.

**Query:**

-- 1. Database Creation and Table Design

-- ● Task: Create a database named "Employee\_Record".

    CREATE DATABASE Employee\_Record;

    use Employee\_Record;

-- ● Tables:

-- ○ Emp\_1: Emp\_Id, Emp\_Name, Emp\_Dept, Emp\_Des, Emp\_Contact, Emp\_Email, Emp\_Qualification, Emp\_Research\_Area.

-- ○ Emp\_2: Emp\_Id, Emp\_Father\_Name, Emp\_Mother\_Name, Emp\_DOB, Emp\_Address, Emp\_Gender, Emp\_Religion.

-- ○ Emp\_3: Emp\_Id, Emp\_Date\_of\_Joining, Emp\_Basic\_Salary, Emp\_TA\_DA.

-- ○ Emp\_4: Empty Table.

-- Creating Emp\_1 table

CREATE TABLE Emp\_1 (

    Emp\_Id INT PRIMARY KEY,

    Emp\_Name VARCHAR(100),

    Emp\_Dept VARCHAR(50),

    Emp\_Des VARCHAR(50),

    Emp\_Contact VARCHAR(15),

    Emp\_Email VARCHAR(100),

    Emp\_Qualification VARCHAR(50),

Emp\_Research\_Area VARCHAR(50)

);

-- Creating Emp\_2 table

CREATE TABLE Emp\_2 (

    Emp\_Id INT PRIMARY KEY,

    Emp\_Father\_Name VARCHAR(100),

    Emp\_Mother\_Name VARCHAR(100),

    Emp\_DOB DATE,

    Emp\_Address VARCHAR(255),

Emp\_Gender VARCHAR(255),

Emp\_Religion VARCHAR(255)

);

-- Creating Emp\_3 table

CREATE TABLE Emp\_3 (

    Emp\_Id INT PRIMARY KEY,

    Emp\_Date\_of\_Joining DATE,

    Emp\_Basic\_Salary DECIMAL(10, 2),

    Emp\_TA\_DA DECIMAL(10, 2)

);

-- Creating Emp\_4 table as an empty table

CREATE TABLE Emp\_4 (

    -- Define columns later as per requirements; currently empty

);

1. Write a Query for Inserting, Deleting, Updating, Alter, Drop Data of Database Tables i.e,
   1. Emp1 and Emp2 having 15 and Emp3 having 10 records.
   2. Alter/Modify command perform alteration of attribute Type and Adding New Column i.e., in Emp3 e.g. change the column name Date\_of\_Joining toJoining\_Date, Add Column in same Table Monthly\_Salary\_, Yearly\_Salary.
   3. Drop Table Emp4.

**Query:**

-- 2. Data Manipulation

-- ● Insert: Populate the Emp\_1 table with at least 15 records, Emp\_2 with 10 records, and Emp\_3 with 20 records.

    -- Insert at least 15 records into Emp\_1 table

INSERT INTO Emp\_1 (Emp\_Id, Emp\_Name, Department, Designation, Contact\_No, Email, Qualification)

VALUES

(1, 'Amit Sharma', 'Computer Science', 'Assistant Professor', '9876543210', 'amit.sharma@example.com', 'PhD'),

(2, 'Pooja Patel', 'Mathematics', 'Lecturer', '9876543211', 'pooja.patel@example.com', 'MSc'),

(3, 'Rajesh Kumar', 'Physics', 'Associate Professor', '9876543212', 'rajesh.kumar@example.com', 'PhD'),

(4, 'Sunita Singh', 'Chemistry', 'Professor', '9876543213', 'sunita.singh@example.com', 'PhD'),

(5, 'Alok Verma', 'Biology', 'Assistant Professor', '9876543214', 'alok.verma@example.com', 'PhD'),

(6, 'Ritika Desai', 'English', 'Lecturer', '9876543215', 'ritika.desai@example.com', 'MA'),

(7, 'Anil Mehta', 'Computer Science', 'Lecturer', '9876543216', 'anil.mehta@example.com', 'M.Tech'),

(8, 'Sonal Gupta', 'Mathematics', 'Associate Professor', '9876543217', 'sonal.gupta@example.com', 'PhD'),

(9, 'Deepak Thakur', 'Physics', 'Assistant Professor', '9876543218', 'deepak.thakur@example.com', 'PhD'),

(10, 'Neha Rani', 'Chemistry', 'Lecturer', '9876543219', 'neha.rani@example.com', 'MSc'),

(11, 'Pradeep Joshi', 'Biology', 'Associate Professor', '9876543220', 'pradeep.joshi@example.com', 'PhD'),

(12, 'Swati Verma', 'English', 'Assistant Professor', '9876543221', 'swati.verma@example.com', 'PhD'),

(13, 'Manoj Dubey', 'Computer Science', 'Professor', '9876543222', 'manoj.dubey@example.com', 'PhD'),

(14, 'Sneha Tiwari', 'Mathematics', 'Assistant Professor', '9876543223', 'sneha.tiwari@example.com', 'MSc'),

(15, 'Vikash Saini', 'Physics', 'Lecturer', '9876543224', 'vikash.saini@example.com', 'MSc'),

(16, 'Anjali Mehra', 'Chemistry', 'Associate Professor', '9876543225', 'anjali.mehra@example.com', 'PhD'),

(17, 'Rohit Yadav', 'Biology', 'Lecturer', '9876543226', 'rohit.yadav@example.com', 'MSc'),

(18, 'Megha Singh', 'English', 'Associate Professor', '9876543227', 'megha.singh@example.com', 'PhD'),

(19, 'Vivek Bhardwaj', 'Computer Science', 'Assistant Professor', '9876543228', 'vivek.bhardwaj@example.com', 'PhD'),

(20, 'Kavita Chauhan', 'Mathematics', 'Lecturer', '9876543229', 'kavita.chauhan@example.com', 'MSc'),

(21, 'Ajay Pandey', 'Physics', 'Assistant Professor', '9876543230', 'ajay.pandey@example.com', 'PhD'),

(22, 'Rashmi Sharma', 'Chemistry', 'Lecturer', '9876543231', 'rashmi.sharma@example.com', 'MSc'),

(23, 'Tarun Singh', 'Biology', 'Professor', '9876543232', 'tarun.singh@example.com', 'PhD'),

(24, 'Sneha Agarwal', 'English', 'Assistant Professor', '9876543233', 'sneha.agarwal@example.com', 'PhD'),

(25, 'Mohit Sharma', 'Computer Science', 'Lecturer', '9876543234', 'mohit.sharma@example.com', 'M.Tech'),

(26, 'Arun Mishra', 'Mathematics', 'Associate Professor', '9876543235', 'arun.mishra@example.com', 'PhD'),

(27, 'Shalini Rai', 'Physics', 'Professor', '9876543236', 'shalini.rai@example.com', 'PhD'),

(28, 'Vishal Gupta', 'Chemistry', 'Assistant Professor', '9876543237', 'vishal.gupta@example.com', 'PhD'),

(29, 'Preeti Arora', 'Biology', 'Lecturer', '9876543238', 'preeti.arora@example.com', 'MSc'),

(30, 'Karan Singh', 'English', 'Associate Professor', '9876543239', 'karan.singh@example.com', 'PhD');

-- Insert at least 10 records into Emp\_2 table

INSERT INTO Emp\_2 (Emp\_Id, Father\_Name, Mother\_Name, DOB, Address)

VALUES

(1, 'Artificial Intelligence', 'Ramesh Sharma', 'Sita Sharma', '1985-04-15', '123, Green Avenue, Delhi', 'Male', 'Hindu'),

(2, 'MSc', 'Algebra', 'Mahesh Patel', 'Gita Patel', '1990-09-25', '456, Blue Street, Mumbai', 'Female', 'Hindu'),

(3, 'PhD', 'Quantum Mechanics', 'Suresh Kumar', 'Radha Kumar', '1982-01-22', '789, Yellow Road, Kolkata', 'Male', 'Hindu'),

(4, 'Organic Chemistry', 'Prakash Singh', 'Anita Singh', '1978-12-05', '234, Red Lane, Pune', 'Female', 'Hindu'),

(5, 'Genetics', 'Vinod Verma', 'Shanti Verma', '1987-07-10', '678, Pink Street, Jaipur', 'Male', 'Hindu'),

(6, 'Literature', 'Ajay Desai', 'Meena Desai', '1992-03-18', '890, White Lane, Ahmedabad', 'Female', 'Hindu'),

(7, 'M.Tech', 'Data Science', 'Kishore Mehta', 'Kamla Mehta', '1989-11-30', '567, Orange Avenue, Hyderabad', 'Male', 'Hindu'),

(8, 'Statistics', 'Rajesh Gupta', 'Rita Gupta', '1984-02-28', '432, Purple Street, Chandigarh', 'Female', 'Hindu'),

(9, 'Astrophysics', 'Vikram Thakur', 'Sarita Thakur', '1986-06-17', '901, Violet Lane, Lucknow', 'Male', 'Hindu'),

(10, 'Inorganic Chemistry', 'Ashok Rani', 'Seema Rani', '1991-08-04', '345, Brown Street, Bhopal', 'Female', 'Hindu'),

(11, 'Molecular Biology', 'Narendra Joshi', 'Usha Joshi', '1983-09-15', '678, Grey Avenue, Patna', 'Male', 'Hindu'),

(12, 'Linguistics', 'Mukesh Verma', 'Nisha Verma', '1988-12-22', '567, Black Street, Ranchi', 'Female', 'Hindu'),

(13, 'Machine Learning', 'Raghav Dubey', 'Kusum Dubey', '1979-10-11', '890, Gold Lane, Indore', 'Male', 'Hindu'),

(14, 'Calculus', 'Ravi Tiwari', 'Lata Tiwari', '1990-01-28', '234, Silver Avenue, Surat', 'Female', 'Hindu'),

(15, 'Thermodynamics', 'Harish Saini', 'Shobha Saini', '1991-04-07', '567, Copper Street, Vadodara', 'Male', 'Hindu'),

(16, 'Physical Chemistry', 'Shyam Mehra', 'Suman Mehra', '1982-06-19', '678, Brass Lane, Kanpur', 'Female', 'Hindu'),

(17, 'Ecology', 'Kamal Yadav', 'Sunita Yadav', '1990-09-11', '789, Platinum Street, Nashik', 'Male', 'Hindu'),

(18, 'Postcolonial Literature', 'Rajendra Singh', 'Poonam Singh', '1985-05-29', '234, Zinc Avenue, Nagpur', 'Female', 'Hindu'),

(19, 'Cyber Security', 'Rajiv Bhardwaj', 'Anita Bhardwaj', '1986-02-16', '345, Tin Street, Varanasi', 'Male', 'Hindu'),

(20, 'Geometry', 'Ashok Chauhan', 'Rekha Chauhan', '1992-12-01', '678, Iron Lane, Meerut', 'Female', 'Hindu'),

(21, 'Optics', 'Mohan Pandey', 'Radha Pandey', '1987-07-20', '789, Lead Street, Amritsar', 'Male', 'Hindu'),

(22, 'Analytical Chemistry', 'Mahesh Sharma', 'Anjali Sharma', '1990-11-09', '890, Steel Avenue, Ludhiana', 'Female', 'Hindu'),

(23, 'Microbiology', 'Rajinder Singh', 'Manju Singh', '1981-08-13', '123, Nickel Street, Ghaziabad', 'Male', 'Hindu'),

(24, 'Renaissance Literature', 'Vinod Agarwal', 'Geeta Agarwal', '1988-10-30', '456, Mercury Lane, Noida', 'Female', 'Hindu'),

(25, 'Web Development', 'Pankaj Sharma', 'Seema Sharma', '1991-02-17', '567, Cobalt Street, Faridabad', 'Male', 'Hindu'),

(26, 'Differential Equations', 'Madhav Mishra', 'Alka Mishra', '1984-12-22', '789, Chromium Avenue, Gorakhpur', 'Male', 'Hindu'),

(27, 'Nuclear Physics', 'Arun Rai', 'Sunita Rai', '1977-04-18', '234, Bronze Lane, Jabalpur', 'Female', 'Hindu'),

(28, 'Biochemistry', 'Dinesh Gupta', 'Rani Gupta', '1985-05-05', '345, Silver Street, Udaipur', 'Male', 'Hindu'),

(29, 'Botany', 'Rakesh Arora', 'Suman Arora', '1990-01-21', '678, Gold Lane, Allahabad', 'Female', 'Hindu'),

(30, 'Modern Literature', 'Vijay Singh', 'Anjana Singh', '1983-03-12', '890, Titanium Avenue, Panipat', 'Male', 'Hindu');

-- Insert at least 20 records into Emp\_3 table

INSERT INTO Emp\_3 (Emp\_Id, Emp\_DOJ, Basic\_Salary, Emp\_TA\_DA)

VALUES

(1, '2010-07-10', 60000.00, 5000.00),

(2, '2015-06-12', 55000.00, 4000.00),

(3, '2008-08-20', 70000.00, 6000.00),

(4, '2005-05-15', 80000.00, 7000.00),

(5, '2012-09-01', 62000.00, 5200.00),

(6, '2016-02-11', 54000.00, 3900.00),

(7, '2014-11-20', 56000.00, 4500.00),

(8, '2010-12-14', 69000.00, 5800.00),

(9, '2011-03-08', 61000.00, 5000.00),

(10, '2015-04-10', 53000.00, 4100.00),

(11, '2009-06-25', 71000.00, 6000.00),

(12, '2012-07-16', 60000.00, 4900.00),

(13, '2004-11-09', 82000.00, 7500.00),

(14, '2013-05-20', 61000.00, 4800.00),

(15, '2015-09-18', 55000.00, 4200.00),

(16, '2008-12-03', 73000.00, 6200.00),

(17, '2015-07-25', 57000.00, 4500.00),

(18, '2010-08-21', 68000.00, 5400.00),

(19, '2011-11-10', 63000.00, 5100.00),

(20, '2016-01-17', 52000.00, 4000.00),

(21, '2013-03-15', 60000.00, 5000.00),

(22, '2015-02-26', 55000.00, 4300.00),

(23, '2003-06-08', 83000.00, 7600.00),

(24, '2011-10-12', 61000.00, 4900.00),

(25, '2014-07-04', 57000.00, 4500.00),

(26, '2009-05-29', 69000.00, 5700.00),

(27, '2004-03-11', 85000.00, 8000.00),

(28, '2012-02-07', 62000.00, 5200.00),

(29, '2014-06-02', 56000.00, 4600.00),

(30, '2009-08-05', 72000.00, 6100.00);

-- ● Update: Change the column name Emp\_DOJ to Joining\_Date.

-- Rename the Emp\_DOJ column to Joining\_Date in Emp\_3 table

ALTER TABLE Emp\_3

CHANGE COLUMN Emp\_DOJ Joining\_Date DATE;

-- ● Delete: Remove the enrollment records of students whose Basic\_Salary is less than 25K.

-- Delete records from Emp\_3 where Basic\_Salary is less than 25,000

DELETE FROM Emp\_3

WHERE Basic\_Salary < 25000;

-- ● Alter:

-- ○ Add a column Monthly\_Salary, Yearly\_Salary in the Emp\_3 table.

-- Add Monthly\_Salary and Yearly\_Salary columns to Emp\_3 table

ALTER TABLE Emp\_3

ADD COLUMN Monthly\_Salary DECIMAL(10, 2),

ADD COLUMN Yearly\_Salary DECIMAL(10, 2);

-- ● Drop the Emp\_4 table.

-- Drop the Emp\_4 table

DROP TABLE Emp\_4;