TASK

Create a table with 10 * 10 dimensions having both numeric and non-numeric columns.

Build your own scenario and create corresponding queries. Minimum 15 scenarios.

Eg: Scenario 1 - Choose names with age greater than 18

Select * from Table where age > 18;

Use all the commands shown below and create different meaningful scenarios.

SELECT

INSERT

DISTINCT

WHERE

AND

OR

IN

BETWEEN

```
-- Create a Schemas in name Employee
use Employee;

-- Create table Employe_Info
CREATE TABLE Employee_info (
   Employee_ID INT NOT NULL PRIMARY KEY,
   First_Name VARCHAR(50) NOT NULL,
   Last_Name VARCHAR(50) NOT NULL,
   Department VARCHAR(50) NOT NULL,
   Position VARCHAR(50) NOT NULL,
   Age INT NOT NULL,
   Salary DECIMAL(10, 2) NOT NULL,
   Hire_Date DATE NOT NULL,
   Phone_Number VARCHAR(15) NOT NULL,
   Email VARCHAR(100) NOT NULL
);

-- Inserting data to the table Employee_info
INSERT INTO  Employee.Employee_info VALUES (1, 'Albin', 'Kuriachan', 'IT', 'Manager', 25, 60000, '2022-01-01', '1234567890', 'ak@gmail.com');
INSERT INTO Employee.Employee_info VALUES (2, 'Amit', 'Kumar', 'HR', 'HR Specialist', 28, 55000, '2022-02-15', '9876543210', 'akumar@gmail.com');
INSERT INTO Employee.Employee_info VALUES (3, 'Priya', 'Patel', 'Marketing', 'Marketing Executive', 30, 65000, '2022-03-01', '5555555555', 'ppatel@gmail.com');
INSERT INTO Employee.Employee_info VALUES (4, 'Rahul', 'Sharma', 'Finance', 'Financial Analyst', 32, 70000, '2022-04-01', '1112223333', 'rsharma@gmail.com');
```

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INSERT INTO Employee.Employee_info VALUES (5, 'Sunita', 'Singh', 'IT', 'Developer', 35, 75000, '2022-05-15', '9998887777', 'ssingh@gmail.com');

INSERT INTO Employee.Employee_info VALUES (6, 'Deepak', 'Gupta', 'Sales', 'Sales Manager', 40, 80000, '2022-06-01', '7777777777', 'dgupta@gmail.com');

INSERT INTO Employee.Employee_info VALUES (7, 'Neha', 'Verma', 'HR', 'HR Manager', 45, 85000, '2022-07-15', '6666666666', 'nverma@gmail.com');

INSERT INTO Employee.Employee_info VALUES (8, 'Aarti', 'Yadav', 'Finance', 'Accountant', 28, 60000, '2022-08-01', '4444444444', 'ayadav@gmail.com');

INSERT INTO Employee.Employee_info VALUES (9, 'Manoj', 'Thakur', 'Marketing', 'Marketing Assistant', 33, 70000, '2022-09-15', '3333333333', 'mthakur@gmail.com');

INSERT INTO Employee.Employee_info VALUES (10, 'Anjali', 'Joshi', 'IT', 'System Administrator', 38, 80000, '2022-10-01', '2222222222', 'ajoshi@gmail.com');


-- Selcet all the data in the table

SELECT * FROM Employee_info


-- Selcet sorted data

SELECT Employee_ID,First_Name, Last_Name, Department, Position FROM Employee_info;


-- Select employees with a age grater than 18

SELECT * FROM Employee.Employee_info WHERE Age > 18;


-- Select employees with a salary between 50000 and 70000

SELECT * FROM Employee.Employee_info WHERE salary between 70000 and 80000;


-- Select employees with letter y in first name

SELECT * FROM Employee_info WHERE First_Name LIKE '%y%';
```

```
-- Select employees with  last name start with letter s

SELECT * FROM Employee_info WHERE Last_Name LIKE 's%';


-- Find the average salaryy of the employee

SELECT AVG(Salary) AS Average_Salary FROM Employee_info;


-- Find the cout of employees in each department

SELECT Department, COUNT(*) AS Num_Employees FROM Employee_info GROUP BY
Department;


-- Find the total number of employees

SELECT COUNT(*) AS Total_Employees FROM Employee_info;


-- Select the employee info based on the age in assending order

SELECT * FROM Employee_info ORDER BY Age ASC;


-- Select the employee info with particular ID

SELECT * FROM Employee_info WHERE Employee_ID IN (1,3,10,5);


-- Select the employee with age less than 50 and work in IT department

SELECT * FROM Employee_info WHERE Age < 50 and Department = 'IT';


-- Select the employee with age less than 26 or work in IT Marketing department


SELECT * FROM Employee_info WHERE Age < 26 or Department = 'Marketing';
```

```
--  Select distinct departments
SELECT DISTINCT Department FROM Employee_info;

-- To delete a column
ALTER TABLE Employee_info DROP COLUMN Hire_Date ;

-- To delete a raw
DELETE FROM Employee_info WHERE Employee_ID = 10;

-- Add new column
ALTER TABLE Employee_info ADD COLUMN Date_of_Birth DATE;

-- update the column Date_of_Birth
UPDATE Employee_info SET Date_of_Birth = '1998-08-31'  WHERE Employee_ID = 1;


SELECT * FROM Employee_info
```