Step 1: Create a database

CREATE DATABASE IF NOT EXISTS TestDB;

USE TestDB;

Step 2: Create a table with various data types and constraints

CREATE TABLE Employee1 ( EmployeeID INT AUTO\_INCREMENT PRIMARY KEY, FirstName VARCHAR(50) NOT NULL,LastName VARCHAR(50) NOT NULL, Email VARCHAR(100) UNIQUE NOT NULL, PhoneNumber CHAR(10),Salary DECIMAL(10, 2) NOT NULL DEFAULT 30000, Department ENUM(‘HR’, ‘IT’, ‘Finance’, ‘Sales’) NOT NULL DEFAULT ‘HR’, DateOfBirth DATE NOT NULL, Gender ENUM(‘Male’, ‘Female’, ‘Other’) NOT NULL, HireDate DATE NOT NULL default curdate(), IsActive BOOLEAN DEFAULT TRUE, CHECK (Salary >= 0), CHECK (Gender IN (‘Male’, ‘Female’, ‘Other’)) ;

Step 3: Insert sample data

INSERT INTO Employees (FirstName, LastName, Email, PhoneNumber, Salary, Department, DateOfBirth, Gender, HireDate, IsActive) VALUES ('Alice', 'Brown', 'alice.brown@example.com', '1234567890', 45000.00, 'IT', '1990-05-12', 'Female', '2023-06-01', TRUE), ('Bob', 'Smith', 'bob.smith@example.com', '9876543210', 35000.00, 'HR', '1985-09-15', 'Male', '2024-01-15', TRUE); Step 4: Query data to verify

SELECT \* FROM Employees;