-- Inserting Schools

INSERT INTO School (Name, Location) VALUES

('School of Engineering', 'Location A'),

('School of Business', 'Location B'),

('School of Arts', 'Location C'),

('School of Science', 'Location D');

-- Inserting Programs

INSERT INTO Program (Name, SchoolID) VALUES

('Computer Science', 1),

('Mechanical Engineering', 1),

('Electrical Engineering', 1),

('Civil Engineering', 1),

('Chemical Engineering', 1),

('Finance', 2),

('Marketing', 2),

('Accounting', 2),

('Management', 2),

('International Business', 2),

('Fine Arts', 3),

('Music', 3),

('Dance', 3),

('Theater', 3),

('Visual Arts', 3),

('Physics', 4),

('Chemistry', 4),

('Biology', 4),

('Mathematics', 4),

('Environmental Science', 4);

-- Inserting Students

INSERT INTO Student (FirstName, LastName, Email, ProgramID) VALUES

('John', 'Doe', 'john.doe@example.com', 1),

('Jane', 'Smith', 'jane.smith@example.com', 1),

('Alice', 'Johnson', 'alice.johnson@example.com', 2),

('Bob', 'Brown', 'bob.brown@example.com', 2),

-- Continue this pattern for all programs

('Charles', 'Davis', 'charles.davis@example.com', 3),

('Diana', 'Miller', 'diana.miller@example.com', 3),

('Eve', 'Clark', 'eve.clark@example.com', 4),

('Frank', 'Moore', 'frank.moore@example.com', 4),

('Grace', 'Taylor', 'grace.taylor@example.com', 5),

('Henry', 'Anderson', 'henry.anderson@example.com', 5),

('Ivy', 'Thomas', 'ivy.thomas@example.com', 6),

('Jack', 'Jackson', 'jack.jackson@example.com', 6),

('Karen', 'White', 'karen.white@example.com', 7),

('Leo', 'Harris', 'leo.harris@example.com', 7),

('Mia', 'Martin', 'mia.martin@example.com', 8),

('Nathan', 'Thompson', 'nathan.thompson@example.com', 8),

('Olivia', 'Garcia', 'olivia.garcia@example.com', 9),

('Paul', 'Martinez', 'paul.martinez@example.com', 9),

('Quinn', 'Robinson', 'quinn.robinson@example.com', 10),

('Rachel', 'Clark', 'rachel.clark@example.com', 10),

('Sam', 'Rodriguez', 'sam.rodriguez@example.com', 11),

('Tina', 'Lewis', 'tina.lewis@example.com', 11),

('Uma', 'Lee', 'uma.lee@example.com', 12),

('Victor', 'Walker', 'victor.walker@example.com', 12),

('Wendy', 'Hall', 'wendy.hall@example.com', 13),

('Xander', 'Allen', 'xander.allen@example.com', 13),

('Yvonne', 'Young', 'yvonne.young@example.com', 14),

('Zach', 'Hernandez', 'zach.hernandez@example.com', 14),

('Abby', 'King', 'abby.king@example.com', 15),

('Brian', 'Wright', 'brian.wright@example.com', 15),

('Cathy', 'Lopez', 'cathy.lopez@example.com', 16),

('Daniel', 'Hill', 'daniel.hill@example.com', 16),

('Ella', 'Scott', 'ella.scott@example.com', 17),

('Fred', 'Green', 'fred.green@example.com', 17),

('Gina', 'Adams', 'gina.adams@example.com', 18),

('Hank', 'Baker', 'hank.baker@example.com', 18),

('Isla', 'Nelson', 'isla.nelson@example.com', 19),

('Jake', 'Carter', 'jake.carter@example.com', 19),

('Kim', 'Mitchell', 'kim.mitchell@example.com', 20),

('Liam', 'Perez', 'liam.perez@example.com', 20);

-- Inserting Departments

INSERT INTO Department (Name, SchoolID) VALUES

('Computer Science Department', 1),

('Mechanical Engineering Department', 1),

('Electrical Engineering Department', 1),

('Civil Engineering Department', 1),

('Finance Department', 2),

('Marketing Department', 2),

('Accounting Department', 2),

('Management Department', 2),

('Fine Arts Department', 3),

('Music Department', 3),

('Dance Department', 3),

('Theater Department', 3),

('Physics Department', 4),

('Chemistry Department', 4),

('Biology Department', 4),

('Mathematics Department', 4);

-- Inserting Units

INSERT INTO Unit (Name, DepartmentID) VALUES

('Software Development Lab', 1), ('AI and Machine Learning Lab', 1), ('Database Systems Lab', 1), ('Cybersecurity Lab', 1), ('Thermodynamics Lab', 2), ('Fluid Mechanics Lab', 2), ('Material Science Lab', 2), ('Robotics Lab', 2), ('Circuits and Systems Lab', 3), ('Control Systems Lab', 3), ('Power Systems Lab', 3), ('Telecommunications Lab', 3), ('Structural Engineering Lab', 4), ('Geotechnical Engineering Lab', 4), ('Transportation Engineering Lab', 4), ('Environmental Engineering Lab', 4), ('Corporate Finance Unit', 5), ('Investment Analysis Unit', 5), ('Financial Reporting Unit', 5), ('Risk Management Unit', 5), ('Market Research Unit', 6), ('Advertising Unit', 6), ('Consumer Behavior Unit', 6), ('Digital Marketing Unit', 6), ('Taxation Unit', 7), ('Auditing Unit', 7), ('Management Accounting Unit', 7), ('Financial Accounting Unit', 7), ('Human Resources Unit', 8), ('Operations Management Unit', 8), ('Strategic Management Unit', 8), ('Entrepreneurship Unit', 8), ('Painting Studio', 9), ('Sculpture Studio', 9), ('Photography Lab', 9), ('Printmaking Studio', 9), ('Vocal Training Room', 10), ('Instrumental Practice Room', 10), ('Music Theory Classroom', 10), ('Recording Studio', 10), ('Ballet Studio', 11), ('Modern Dance Studio', 11), ('Dance Therapy Room', 11), ('Dance Performance Hall', 11), ('Acting Studio', 12), ('Directing Studio', 12), ('Stage Design Workshop', 12), ('Costume Design Workshop', 12), ('Quantum Mechanics Lab', 13), ('Classical Mechanics Lab', 13), ('Optics Lab', 13), ('Thermodynamics Lab', 13), ('Organic Chemistry Lab', 14), ('Inorganic Chemistry Lab', 14), ('Physical Chemistry Lab', 14), ('Analytical Chemistry Lab', 14), ('Genetics Lab', 15), ('Microbiology Lab', 15), ('Botany Lab', 15), ('Zoology Lab', 15), ('Algebra Research Unit', 16), ('Calculus Research Unit', 16), ('Statistics Research Unit', 16), ('Applied Mathematics Lab', 16);

-- Inserting Units with Named Units and Duration

INSERT INTO Unit (Name, DepartmentID, Duration) VALUES

('Software Development Lab', 1, 10),

('AI and Machine Learning Lab', 1, 12),

('Database Systems Lab', 1, 8),

('Cybersecurity Lab', 1, 15),

('Thermodynamics Lab', 2, 14),

('Fluid Mechanics Lab', 2, 13),

('Material Science Lab', 2, 11),

('Robotics Lab', 2, 16),

('Circuits and Systems Lab', 3, 10),

('Control Systems Lab', 3, 12),

('Power Systems Lab', 3, 14),

('Telecommunications Lab', 3, 9),

('Structural Engineering Lab', 4, 12),

('Geotechnical Engineering Lab', 4, 10),

('Transportation Engineering Lab', 4, 8),

('Environmental Engineering Lab', 4, 11),

('Corporate Finance Unit', 5, 10),

('Investment Analysis Unit', 5, 12),

('Financial Reporting Unit', 5, 14),

('Risk Management Unit', 5, 13),

('Market Research Unit', 6, 10),

('Advertising Unit', 6, 12),

('Consumer Behavior Unit', 6, 9),

('Digital Marketing Unit', 6, 11),

('Taxation Unit', 7, 8),

('Auditing Unit', 7, 12),

('Management Accounting Unit', 7, 14),

('Financial Accounting Unit', 7, 10),

('Human Resources Unit', 8, 10),

('Operations Management Unit', 8, 11),

('Strategic Management Unit', 8, 12),

('Entrepreneurship Unit', 8, 9),

('Painting Studio', 9, 12),

('Sculpture Studio', 9, 10),

('Photography Lab', 9, 8),

('Printmaking Studio', 9, 11),

('Vocal Training Room', 10, 12),

('Instrumental Practice Room', 10, 10),

('Music Theory Classroom', 10, 14),

('Recording Studio', 10, 15),

('Ballet Studio', 11, 10),

('Modern Dance Studio', 11, 12),

('Dance Therapy Room', 11, 14),

('Dance Performance Hall', 11, 9),

('Acting Studio', 12, 10),

('Directing Studio', 12, 12),

('Stage Design Workshop', 12, 14),

('Costume Design Workshop', 12, 11),

('Quantum Mechanics Lab', 13, 12),

('Classical Mechanics Lab', 13, 10),

('Optics Lab', 13, 9),

('Thermodynamics Lab', 13, 11),

('Organic Chemistry Lab', 14, 10),

('Inorganic Chemistry Lab', 14, 12),

('Physical Chemistry Lab', 14, 14),

('Analytical Chemistry Lab', 14, 9),

('Genetics Lab', 15, 10),

('Microbiology Lab', 15, 12),

('Botany Lab', 15, 11),

('Zoology Lab', 15, 14),

('Algebra Research Unit', 16, 10),

('Calculus Research Unit', 16, 12),

('Statistics Research Unit', 16, 8),

('Applied Mathematics Lab', 16, 11);

-- Inserting Units with Named Units, Duration, and Description

INSERT INTO Unit (Name, DepartmentID, Duration, Description) VALUES

('Software Development Lab', 1, 10, 'Hands-on experience in software development and project management.'),

('AI and Machine Learning Lab', 1, 12, 'Exploration of AI techniques and machine learning algorithms.'),

('Database Systems Lab', 1, 8, 'Design and implementation of relational databases.'),

('Cybersecurity Lab', 1, 15, 'Study of cybersecurity principles and practices.'),

('Thermodynamics Lab', 2, 14, 'In-depth study of thermodynamics and heat transfer.'),

('Fluid Mechanics Lab', 2, 13, 'Principles and applications of fluid mechanics.'),

('Material Science Lab', 2, 11, 'Study of material properties and applications.'),

('Robotics Lab', 2, 16, 'Design and control of robotic systems.'),

('Circuits and Systems Lab', 3, 10, 'Fundamentals of electrical circuits and systems.'),

('Control Systems Lab', 3, 12, 'Analysis and design of control systems.'),

('Power Systems Lab', 3, 14, 'Study of power generation, transmission, and distribution.'),

('Telecommunications Lab', 3, 9, 'Principles of telecommunications and networking.'),

('Structural Engineering Lab', 4, 12, 'Analysis and design of structural components.'),

('Geotechnical Engineering Lab', 4, 10, 'Study of soil mechanics and foundation engineering.'),

('Transportation Engineering Lab', 4, 8, 'Design and analysis of transportation systems.'),

('Environmental Engineering Lab', 4, 11, 'Study of environmental engineering principles and practices.'),

('Corporate Finance Unit', 5, 10, 'Financial management in corporations.'),

('Investment Analysis Unit', 5, 12, 'Techniques for analyzing and valuing investments.'),

('Financial Reporting Unit', 5, 14, 'Preparation and analysis of financial statements.'),

('Risk Management Unit', 5, 13, 'Identification and management of financial risks.'),

('Market Research Unit', 6, 10, 'Techniques and methods in market research.'),

('Advertising Unit', 6, 12, 'Principles and practices of advertising.'),

('Consumer Behavior Unit', 6, 9, 'Study of consumer behavior and decision-making.'),

('Digital Marketing Unit', 6, 11, 'Strategies and tools for digital marketing.'),

('Taxation Unit', 7, 8, 'Principles of taxation and tax planning.'),

('Auditing Unit', 7, 12, 'Principles and practices of auditing.'),

('Management Accounting Unit', 7, 14, 'Cost management and internal control systems.'),

('Financial Accounting Unit', 7, 10, 'Principles of financial accounting and reporting.'),

('Human Resources Unit', 8, 10, 'Principles and practices of human resource management.'),

('Operations Management Unit', 8, 11, 'Techniques for managing business operations.'),

('Strategic Management Unit', 8, 12, 'Formulation and implementation of business strategies.'),

('Entrepreneurship Unit', 8, 9, 'Principles and practices of entrepreneurship.'),

('Painting Studio', 9, 12, 'Techniques and materials for painting.'),

('Sculpture Studio', 9, 10, 'Techniques and materials for sculpture.'),

('Photography Lab', 9, 8, 'Techniques and tools for photography.'),

('Printmaking Studio', 9, 11, 'Techniques and materials for printmaking.'),

('Vocal Training Room', 10, 12, 'Techniques for vocal training and performance.'),

('Instrumental Practice Room', 10, 10, 'Practice techniques for musical instruments.'),

('Music Theory Classroom', 10, 14, 'Fundamentals of music theory.'),

('Recording Studio', 10, 15, 'Techniques for music recording and production.'),

('Ballet Studio', 11, 10, 'Techniques and practices of ballet.'),

('Modern Dance Studio', 11, 12, 'Techniques and practices of modern dance.'),

('Dance Therapy Room', 11, 14, 'Principles and practices of dance therapy.'),

('Dance Performance Hall', 11, 9, 'Preparation and performance of dance routines.'),

('Acting Studio', 12, 10, 'Techniques and practices of acting.'),

('Directing Studio', 12, 12, 'Principles and practices of directing.'),

('Stage Design Workshop', 12, 14, 'Techniques and materials for stage design.'),

('Costume Design Workshop', 12, 11, 'Techniques and materials for costume design.'),

('Quantum Mechanics Lab', 13, 12, 'Principles and applications of quantum mechanics.'),

('Classical Mechanics Lab', 13, 10, 'Principles and applications of classical mechanics.'),

('Optics Lab', 13, 9, 'Study of light and optics.'),

('Thermodynamics Lab', 13, 11, 'Study of thermodynamics principles.'),

('Organic Chemistry Lab', 14, 10, 'Study of organic chemical reactions and compounds.'),

('Inorganic Chemistry Lab', 14, 12, 'Study of inorganic chemical reactions and compounds.'),

('Physical Chemistry Lab', 14, 14, 'Study of physical properties of chemicals.'),

('Analytical Chemistry Lab', 14, 9, 'Techniques and tools for chemical analysis.'),

('Genetics Lab', 15, 10, 'Study of genetic principles and techniques.'),

('Microbiology Lab', 15, 12, 'Study of microorganisms and their applications.'),

('Botany Lab', 15, 11, 'Study of plant biology.'),

('Zoology Lab', 15, 14, 'Study of animal biology.'),

('Algebra Research Unit', 16, 10, 'Research in algebraic structures and techniques.'),

('Calculus Research Unit', 16, 12, 'Research in differential and integral calculus.'),

('Statistics Research Unit', 16, 8, 'Research in statistical methods and applications.'),

('Applied Mathematics Lab', 16, 11, 'Applications of mathematics in various fields.');