CREATE TABLE Skill (

skill\_id INT AUTO\_INCREMENT PRIMARY KEY,

skill\_name VARCHAR(100) UNIQUE,

category VARCHAR(100),

description TEXT

);

INSERT INTO Skill (skill\_name, category, description) VALUES

('Python', 'Programming', 'General-purpose programming language, used in data science and web development.'),

('JavaScript', 'Programming', 'Frontend and backend scripting language, core to web development.'),

('React', 'Frontend Framework', 'JavaScript library for building user interfaces.'),

('Node.js', 'Backend', 'JavaScript runtime for server-side development.'),

('HTML & CSS', 'Frontend', 'Markup and styling languages for building web pages.'),

('SQL', 'Database', 'Structured Query Language used for relational databases.'),

('MongoDB', 'Database', 'NoSQL database used for modern applications.'),

('UI/UX Design', 'Design', 'Design of user interfaces and experiences.'),

('WordPress', 'CMS', 'Content management system for websites and blogs.'),

('SEO', 'Marketing', 'Search Engine Optimization to improve site ranking.'),

('Adobe Photoshop', 'Design', 'Image editing and graphics design tool.'),

('Figma', 'Design', 'Collaborative interface design tool.'),

('DevOps', 'Infrastructure', 'CI/CD, server deployment, and automation practices.'),

('Project Management', 'Management', 'Managing timelines, tasks, and teams.'),

('Google Ads', 'Marketing', 'Google ad campaign and PPC advertising.')

;

CREATE TABLE User (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

first\_name VARCHAR(100) NOT NULL,

last\_name VARCHAR(100) NOT NULL,

contact VARCHAR(20),

email VARCHAR(150) UNIQUE NOT NULL,

role ENUM('Admin', 'Manager', 'Member') NOT NULL,

password VARCHAR(255) NOT NULL,

connect\_balance INT DEFAULT 0,

hourly\_rate DECIMAL(6,2) DEFAULT 0.00,

created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP

);

INSERT INTO User (first\_name, last\_name, contact, email, role, password, connect\_balance, hourly\_rate)

VALUES

('Asad', 'Mehmood', '03011234567', 'asad.mehmood@example.com', 'Admin', 'admin123', 120, 30.00),

('Ayesha', 'Khan', '03121234567', 'ayesha.khan@example.com', 'Manager', 'ayesha456', 90, 22.00),

('Zain', 'Ali', '03211234567', 'zain.ali@example.com', 'Member', 'zainpass', 60, 18.50),

('Hira', 'Iqbal', '03451234567', 'hira.iqbal@example.com', 'Member', 'hira@321', 75, 20.00),

('Bilal', 'Ahmed', '03081234567', 'bilal.ahmed@example.com', 'Manager', 'bilal789', 110, 25.00),

('Fatima', 'Rashid', '03151234567', 'fatima.rashid@example.com', 'Member', 'fatimaPass', 95, 19.00),

('Saad', 'Nawaz', '03241234567', 'saad.nawaz@example.com', 'Member', 'saad007', 45, 15.00),

('Iqra', 'Zafar', '03031234567', 'iqra.zafar@example.com', 'Member', 'iqra#pass', 105, 21.00),

('Usman', 'Farooq', '03421234567', 'usman.farooq@example.com', 'Admin', 'usman123', 130, 35.00),

('Rabia', 'Kaleem', '03191234567', 'rabia.kaleem@example.com', 'Manager', 'rabia321', 88, 23.50);

CREATE TABLE UserSkill (

user\_id INT,

skill\_id INT,

proficiency\_level ENUM('Beginner', 'Intermediate', 'Expert') DEFAULT 'Intermediate',

years\_of\_experience INT DEFAULT 0,

certified BOOLEAN DEFAULT FALSE,

updated\_at DATETIME DEFAULT CURRENT\_TIMESTAMP,

PRIMARY KEY (user\_id, skill\_id),

FOREIGN KEY (user\_id) REFERENCES User(user\_id) ON DELETE CASCADE,

FOREIGN KEY (skill\_id) REFERENCES Skill(skill\_id) ON DELETE CASCADE

);

INSERT INTO UserSkill (user\_id, skill\_id, proficiency\_level, years\_of\_experience, certified) VALUES

(1, 1, 'Expert', 5, TRUE),

(1, 2, 'Intermediate', 3, FALSE),

(2, 3, 'Expert', 4, TRUE),

(2, 1, 'Intermediate', 2, FALSE),

(3, 4, 'Expert', 5, TRUE),

(3, 2, 'Intermediate', 3, FALSE),

(4, 1, 'Intermediate', 2, TRUE),

(4, 5, 'Beginner', 1, FALSE),

(5, 6, 'Expert', 6, TRUE),

(5, 2, 'Intermediate', 2, FALSE),

(6, 3, 'Beginner', 1, FALSE),

(6, 7, 'Intermediate', 2, FALSE),

(7, 1, 'Intermediate', 3, TRUE),

(7, 8, 'Expert', 5, TRUE),

(8, 4, 'Intermediate', 2, FALSE),

(8, 2, 'Beginner', 1, FALSE),

(9, 5, 'Expert', 4, TRUE),

(9, 6, 'Intermediate', 3, FALSE),

(10, 7, 'Expert', 5, TRUE),

(10, 3, 'Intermediate', 2, FALSE);

CREATE TABLE Job (

job\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(150) NOT NULL,

description TEXT,

category VARCHAR(100),

skill\_required VARCHAR(255),

connects\_required INT,

date\_posted DATE,

deadline DATE,

client\_rating DECIMAL(2,1),

budget\_type ENUM('Fixed', 'Hourly'),

client\_budget DECIMAL(10,2),

expected\_cost DECIMAL(10,2),

expected\_earning DECIMAL(10,2),

feasibility\_score TINYINT CHECK (feasibility\_score BETWEEN 0 AND 10),

url\_link TEXT,

client\_country VARCHAR(100)

);

INSERT INTO Job (

title, description, category, skill\_required, connects\_required,

date\_posted, deadline, client\_rating, budget\_type, client\_budget,

expected\_cost, expected\_earning, feasibility\_score, url\_link, client\_country

)

VALUES

-- Web Dev (Pakistan)

('React Developer Needed', 'Build responsive UI using React for SaaS app.', 'Web Development', 'React, HTML, CSS, JavaScript', 6,

'2025-07-01', '2025-07-10', 4.9, 'Hourly', 20.00, 15.00, 200.00, 9, 'https://www.upwork.com/job/react-dev-1', 'Pakistan'),

-- SEO Expert (USA)

('SEO Optimization for E-commerce', 'Improve SEO for Shopify store.', 'Marketing', 'SEO, Google Analytics', 4,

'2025-07-05', '2025-07-15', 4.6, 'Fixed', 300.00, 200.00, 100.00, 7, 'https://www.upwork.com/job/seo-shopify-usa', 'United States'),

-- Python Script (UK)

('Automation Script in Python', 'Need script for data cleaning and PDF extraction.', 'Programming', 'Python, Pandas', 8,

'2025-07-04', '2025-07-12', 5.0, 'Fixed', 150.00, 120.00, 30.00, 6, 'https://www.upwork.com/job/python-cleaning-uk', 'United Kingdom'),

-- UI/UX Design (Canada)

('Figma UI/UX Design', 'Create a design prototype for mobile app.', 'Design', 'Figma, UI/UX Design', 5,

'2025-07-06', '2025-07-16', 4.2, 'Hourly', 25.00, 18.00, 150.00, 8, 'https://www.upwork.com/job/figma-design-canada', 'Canada'),

-- DevOps Task (Germany)

('Setup CI/CD Pipeline', 'DevOps expert needed for GitHub Actions setup.', 'Infrastructure', 'DevOps, Docker, GitHub Actions', 10,

'2025-07-02', '2025-07-20', 4.8, 'Fixed', 500.00, 300.00, 200.00, 10, 'https://www.upwork.com/job/devops-germany', 'Germany'),

-- WordPress Bug Fix (India)

('Fix WordPress Plugin Bug', 'Issue with form plugin in WordPress site.', 'CMS Development', 'WordPress, PHP', 2,

'2025-07-07', '2025-07-09', 4.3, 'Fixed', 80.00, 60.00, 20.00, 5, 'https://www.upwork.com/job/wp-bug-india', 'India'),

-- Adobe Design (Australia)

('Need Logo Design for Startup', 'Creative logo required with 3 concepts.', 'Graphic Design', 'Adobe Photoshop, Illustrator', 3,

'2025-07-03', '2025-07-11', 4.5, 'Fixed', 100.00, 70.00, 30.00, 6, 'https://www.upwork.com/job/logo-aus', 'Australia'),

-- SQL Report Automation (UAE)

('SQL Expert for Report Automation', 'Automate Excel reports using SQL queries.', 'Database', 'SQL, Excel, PowerBI', 6,

'2025-07-01', '2025-07-10', 4.7, 'Hourly', 18.00, 12.00, 120.00, 7, 'https://www.upwork.com/job/sql-uae', 'United Arab Emirates');

CREATE TABLE Proposal (

proposal\_id INT AUTO\_INCREMENT PRIMARY KEY,

job\_id INT,

user\_email VARCHAR(150),

content TEXT,

connects\_required INT,

submitted\_at DATETIME DEFAULT CURRENT\_TIMESTAMP,

status ENUM('Draft', 'Submitted', 'Accepted', 'Rejected') DEFAULT 'Draft',

FOREIGN KEY (job\_id) REFERENCES Job(job\_id) ON DELETE CASCADE,

FOREIGN KEY (user\_email) REFERENCES User(email) ON DELETE CASCADE

);

INSERT INTO Proposal (job\_id, user\_email, content, connects\_required, status)

VALUES

(1, 'asad.mehmood@example.com', 'I have 5+ years of experience with React and can start immediately.', 6, 'Submitted'),

(2, 'ayesha.khan@example.com', 'SEO strategy will be based on data-driven keywords and on-page optimization.', 4, 'Draft'),

(3, 'zain.ali@example.com', 'Python script will be efficient, documented, and delivered in 2 days.', 8, 'Submitted'),

(4, 'hira.iqbal@example.com', 'Experienced UI/UX designer with strong Figma skills and mobile-first approach.', 5, 'Draft'),

(5, 'bilal.ahmed@example.com', 'Set up a CI/CD pipeline using Docker and GitHub Actions within a week.', 10, 'Submitted'),

(6, 'fatima.rashid@example.com', 'I can fix the plugin bug and optimize performance in under 4 hours.', 2, 'Submitted'),

(7, 'saad.nawaz@example.com', 'Logo design will include 3 modern concepts + unlimited revisions.', 3, 'Draft'),

(8, 'usman.farooq@example.com', 'Can automate your SQL reports and provide PowerBI integration.', 6, 'Submitted');

CREATE TABLE Project (

project\_id INT AUTO\_INCREMENT PRIMARY KEY,

project\_title VARCHAR(150) NOT NULL,

description TEXT,

status ENUM('Not Started', 'In Progress', 'On Hold', 'Completed', 'Cancelled') DEFAULT 'Not Started',

start\_date DATE,

deadline DATE,

completion\_date DATE,

progress TINYINT DEFAULT 0 CHECK (progress BETWEEN 0 AND 100),

created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP,

manager\_email VARCHAR(150),

proposal\_id INT,

job\_id INT,

FOREIGN KEY (manager\_email) REFERENCES User(email) ON DELETE SET NULL,

FOREIGN KEY (proposal\_id) REFERENCES Proposal(proposal\_id) ON DELETE SET NULL,

FOREIGN KEY (job\_id) REFERENCES Job(job\_id) ON DELETE SET NULL

);

INSERT INTO Project (

project\_title, description, status, start\_date, deadline, completion\_date,

progress, manager\_email, proposal\_id, job\_id

)

VALUES

('React SaaS Dashboard', 'Frontend UI for a SaaS dashboard using React.', 'In Progress',

'2025-07-01', '2025-07-15', NULL, 60,

'ayesha.khan@example.com', 1, 1),

('Shopify SEO Boost', 'Full SEO optimization for a Shopify store.', 'Not Started',

NULL, '2025-07-20', NULL, 0,

'bilal.ahmed@example.com', 2, 2),

('Python Automation Script', 'Data cleaning and PDF parsing script in Python.', 'Completed',

'2025-07-01', '2025-07-10', '2025-07-09', 100,

'usman.farooq@example.com', 3, 3),

('Mobile App UI/UX Design', 'Figma design for mobile productivity app.', 'In Progress',

'2025-07-04', '2025-07-18', NULL, 40,

'rabia.kaleem@example.com', 4, 4),

('CI/CD DevOps Setup', 'Pipeline setup using Docker and GitHub Actions.', 'Completed',

'2025-07-01', '2025-07-15', '2025-07-14', 100,

'asad.mehmood@example.com', 5, 5);

CREATE TABLE Task (

task\_id INT AUTO\_INCREMENT PRIMARY KEY,

task\_title VARCHAR(150) NOT NULL,

description TEXT,

created\_by\_email VARCHAR(150),

priority ENUM('Low', 'Medium', 'High', 'Critical') DEFAULT 'Medium',

status ENUM('To Do', 'In Progress', 'Review', 'Completed', 'Blocked') DEFAULT 'To Do',

created\_date DATETIME DEFAULT CURRENT\_TIMESTAMP,

start\_date DATE,

deadline DATE,

progress TINYINT DEFAULT 0 CHECK (progress BETWEEN 0 AND 100),

completed\_date DATE,

project\_id INT,

FOREIGN KEY (created\_by\_email) REFERENCES User(email) ON DELETE SET NULL,

FOREIGN KEY (project\_id) REFERENCES Project(project\_id) ON DELETE CASCADE

);

INSERT INTO Task (task\_title, description, created\_by\_email, priority, status, created\_date, start\_date, deadline, progress, completed\_date, project\_id)

VALUES

('Setup Project Repo', 'Initialize GitHub repository and README.', 'ayesha.khan@example.com', 'Low', 'Completed', '2025-07-01', '2025-07-01', '2025-07-02', 100, '2025-07-02', 1),

('Build React Components', 'Develop reusable UI elements.', 'ayesha.khan@example.com', 'High', 'In Progress', '2025-07-02', '2025-07-03', '2025-07-10', 70, NULL, 1),

('Run SEO Audit', 'Check website for SEO issues.', 'bilal.ahmed@example.com', 'Medium', 'Completed', '2025-07-03', '2025-07-04', '2025-07-06', 100, '2025-07-06', 2),

('Keyword Research', 'Find high-performing keywords.', 'bilal.ahmed@example.com', 'High', 'In Progress', '2025-07-05', '2025-07-06', '2025-07-10', 60, NULL, 2),

('Backlink Strategy', 'Plan backlinks for domain authority.', 'bilal.ahmed@example.com', 'Medium', 'To Do', '2025-07-06', NULL, '2025-07-11', 0, NULL, 2),

('Clean Raw Excel', 'Write function to normalize data.', 'usman.farooq@example.com', 'High', 'Completed', '2025-07-01', '2025-07-01', '2025-07-02', 100, '2025-07-02', 3),

('Extract PDF Tables', 'Parse tables from scanned PDFs.', 'usman.farooq@example.com', 'Critical', 'Completed', '2025-07-02', '2025-07-02', '2025-07-03', 100, '2025-07-03', 3),

('Merge Data Outputs', 'Combine outputs into master sheet.', 'usman.farooq@example.com', 'Medium', 'Completed', '2025-07-03', '2025-07-03', '2025-07-04', 100, '2025-07-04', 3),

('Generate Logs', 'Create log file with timestamps.', 'usman.farooq@example.com', 'Low', 'Completed', '2025-07-04', '2025-07-04', '2025-07-05', 100, '2025-07-05', 3),

('User Research', 'Survey competitors and user pain points.', 'rabia.kaleem@example.com', 'High', 'Completed', '2025-07-01', '2025-07-02', '2025-07-03', 100, '2025-07-03', 4),

('Sketch Wireframes', 'Draw low-fidelity screens.', 'rabia.kaleem@example.com', 'Medium', 'In Progress', '2025-07-04', '2025-07-05', '2025-07-08', 40, NULL, 4),

('Design UI Screens', 'Create high-fidelity Figma screens.', 'rabia.kaleem@example.com', 'Critical', 'To Do', '2025-07-05', NULL, '2025-07-10', 0, NULL, 4),

('Create Style Guide', 'Define colors, fonts, spacing.', 'rabia.kaleem@example.com', 'Medium', 'To Do', '2025-07-06', NULL, '2025-07-11', 0, NULL, 4),

('Client Review Meeting', 'Present prototype to client.', 'rabia.kaleem@example.com', 'High', 'To Do', '2025-07-07', NULL, '2025-07-12', 0, NULL, 4),

('Server Setup', 'Provision Ubuntu server for deployment.', 'asad.mehmood@example.com', 'High', 'Completed', '2025-07-01', '2025-07-02', '2025-07-03', 100, '2025-07-03', 5),

('Install Docker', 'Set up Docker and containers.', 'asad.mehmood@example.com', 'High', 'Completed', '2025-07-02', '2025-07-03', '2025-07-04', 100, '2025-07-04', 5),

('Write Dockerfile', 'Create Dockerfile for CI build.', 'asad.mehmood@example.com', 'Medium', 'Completed', '2025-07-03', '2025-07-04', '2025-07-05', 100, '2025-07-05', 5),

('GitHub Actions Setup', 'Configure CI/CD workflow.', 'asad.mehmood@example.com', 'Critical', 'Completed', '2025-07-04', '2025-07-05', '2025-07-06', 100, '2025-07-06', 5),

('Test Deployment', 'Deploy to staging and test.', 'asad.mehmood@example.com', 'High', 'Completed', '2025-07-05', '2025-07-06', '2025-07-07', 100, '2025-07-07', 5),

('Monitoring Setup', 'Add monitoring with Prometheus.', 'asad.mehmood@example.com', 'Medium', 'In Progress', '2025-07-06', '2025-07-07', '2025-07-10', 40, NULL, 5),

('Client Handover', 'Document system and handover.', 'asad.mehmood@example.com', 'High', 'To Do', '2025-07-07', NULL, '2025-07-11', 0, NULL, 5);

CREATE TABLE Assignment (

user\_id INT,

task\_id INT,

assigned\_date DATETIME DEFAULT CURRENT\_TIMESTAMP,

comment TEXT,

PRIMARY KEY (user\_id, task\_id),

FOREIGN KEY (user\_id) REFERENCES User(user\_id) ON DELETE CASCADE,

FOREIGN KEY (task\_id) REFERENCES Task(task\_id) ON DELETE CASCADE

);

INSERT INTO Assignment (user\_id, task\_id, assigned\_date, comment)

VALUES

(1, 1, '2025-07-02 09:00:00', 'Repo initialized, starting development.'),

(2, 3, '2025-07-03 10:30:00', 'Completed SEO audit. Found major issues.'),

(3, 6, '2025-07-01 15:15:00', 'Started data cleaning script.'),

(4, 10, '2025-07-02 12:00:00', 'Gathered user feedback for UI design.'),

(5, 15, '2025-07-03 14:45:00', 'Docker setup completed successfully.'),

(2, 4, '2025-07-04 11:20:00', 'Keyword research 60% done.'),

(3, 7, '2025-07-02 16:00:00', 'PDF tables extracted with minor issues.'),

(1, 2, '2025-07-02 09:45:00', 'React components work in progress.'),

(5, 17, '2025-07-05 10:15:00', 'GitHub Actions configured. CI tests running.'),

(4, 13, '2025-07-06 11:30:00', 'Preparing high-fidelity UI screens.');

DELIMITER //

CREATE TRIGGER check\_admin\_before\_budget\_insert

BEFORE INSERT ON BudgetRule

FOR EACH ROW

BEGIN

DECLARE userRole VARCHAR(50);

-- Get the role of the user trying to insert the rule

SELECT role INTO userRole

FROM User

WHERE email = NEW.user\_email;

-- If not admin, block the insert

IF userRole IS NULL THEN

SIGNAL SQLSTATE '45000' SET MESSAGE\_TEXT = 'User does not exist';

ELSEIF userRole <> 'Admin' THEN

SIGNAL SQLSTATE '45000' SET MESSAGE\_TEXT = 'Only Admins can add budget rules';

END IF;

END;

//

DELIMITER ;

INSERT INTO BudgetRule (

user\_email, project\_category, hourly\_rate\_threshold, profit\_margin\_threshold, client\_tier, budget\_type, is\_active, created\_at

)

VALUES

('asad.mehmood@example.com', 'Web Development', 20.00, 35.00, 'New', 'Hourly', TRUE, '2025-07-01 10:00:00'),

('asad.mehmood@example.com', 'UI/UX Design', 18.00, 30.00, 'Returning', 'Fixed', TRUE, '2025-07-02 11:30:00'),

('usman.farooq@example.com', 'Data Analysis', 22.00, 28.00, 'Premium', 'Hourly', TRUE, '2025-07-03 12:45:00'),

('asad.mehmood@example.com', 'DevOps', 25.00, 40.00, 'New', 'Hourly', TRUE, '2025-07-04 14:15:00'),

('usman.farooq@example.com', 'Mobile App Development', 24.00, 33.00, 'Returning', 'Fixed', TRUE, '2025-07-05 09:50:00');

DROP TRIGGER IF EXISTS check\_admin\_before\_budget\_insert;

DELIMITER //

CREATE TRIGGER check\_admin\_before\_budget\_insert

BEFORE INSERT ON BudgetRule

FOR EACH ROW

BEGIN

DECLARE userRole VARCHAR(50);

-- Get the role of the user trying to insert the rule

SELECT role INTO userRole

FROM User

WHERE email = NEW.user\_email;

-- Block if not found or not admin

IF userRole IS NULL THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'User does not exist.';

ELSEIF userRole <> 'Admin' THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'Only users with Admin role can add budget rules.';

END IF;

END;

//

DELIMITER ;

DROP TRIGGER IF EXISTS check\_creator\_role\_before\_task\_insert;

DELIMITER //

CREATE TRIGGER check\_creator\_role\_before\_task\_insert

BEFORE INSERT ON Task

FOR EACH ROW

BEGIN

DECLARE userRole VARCHAR(50);

-- Get the role of the user who is creating the task

SELECT role INTO userRole

FROM User

WHERE email = NEW.created\_by\_email;

-- Block if not found or not Admin/Manager

IF userRole IS NULL THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'User does not exist.';

ELSEIF userRole NOT IN ('Admin', 'Manager') THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'Only Admins or Managers can create tasks.';

END IF;

END;

//

DELIMITER ;

CREATE TABLE DailyReport (

report\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_email VARCHAR(100),

project\_id INT,

report\_date DATE,

pending\_tasks INT,

completed\_tasks INT,

task\_progress DECIMAL(5,2),

project\_progress DECIMAL(5,2),

task\_deadline DATE,

project\_deadline DATE,

created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (user\_email) REFERENCES User(email) ON DELETE CASCADE,

FOREIGN KEY (project\_id) REFERENCES Project(project\_id) ON DELETE CASCADE

);

INSERT INTO DailyReport (

user\_email, project\_id, report\_date, pending\_tasks, completed\_tasks,

task\_progress, project\_progress, task\_deadline, project\_deadline, created\_at

)

VALUES

('asad.mehmood@example.com', 1, '2025-07-09', 3, 2, 65.00, 55.00, '2025-07-11', '2025-07-20', '2025-07-09 08:30:00'),

('asad.mehmood@example.com', 2, '2025-07-09', 2, 1, 72.00, 40.00, '2025-07-13', '2025-07-22', '2025-07-09 08:30:00'),

('usman.farooq@example.com', 3, '2025-07-09', 4, 3, 50.00, 38.00, '2025-07-12', '2025-07-25', '2025-07-09 08:30:00'),

('asad.mehmood@example.com', 4, '2025-07-09', 1, 2, 85.00, 78.00, '2025-07-10', '2025-07-18', '2025-07-09 08:30:00'),

('usman.farooq@example.com', 5, '2025-07-09', 2, 0, 48.00, 25.00, '2025-07-15', '2025-07-27', '2025-07-09 08:30:00');