

-- 1. Users Table			
CREATE TABLE Users (			select * from users;
user_id serial PRIMARY KEY,			select * from groups;
email VARCHAR(100) UNIQUE NOT NULL,			select * from notifications;
password VARCHAR(255) NOT NULL,			select * from reports;
user_role VARCHAR(20) NOT NULL, -- admin / ops / user			select * from subgroups;
group_id VARCHAR(50) NULL			select * from user_subgroups;
);			select * from favorites;
-- 2. Groups Table			
CREATE TABLE Groups (			
group_id serial PRIMARY KEY,			
group_name VARCHAR(100) UNIQUE NOT NULL			
);			
-- 3. SubGroups Table			
CREATE TABLE SubGroups (			
sub_group_id serialPRIMARY KEY,			
name VARCHAR(100) NOT NULL,			
group_id INTEGER NOT NULL,			
FOREIGN KEY (group_id) REFERENCES Groups(group_id)			
);			
-- 4. User_SubGroups (for normal users only)			
CREATE TABLE User_SubGroups (			
id SERIAL PRIMARY KEY,			
user_id INTEGER NOT NULL,			
sub_group_id INTEGER NOT NULL,			
FOREIGN KEY (user_id) REFERENCES Users(user_id),			
FOREIGN KEY (sub_group_id) REFERENCES SubGroups(sub_group_id),			
UNIQUE(user_id, sub_group_id)			
);			
-- 5. Reports Table			
CREATE TABLE Reports (			

report_id	serial PRIMARY KEY,		
name	VARCHAR(200) NOT NULL,		
type	VARCHAR(50) NOT NULL, -- PDF/Excel/CSV		
date	DATE NOT NULL,		
folder	VARCHAR(100) NOT NULL, -- same as SubGroup name		
sub_group_id	INTEGER NOT NULL,		
	FOREIGN KEY (sub_group_id) REFERENCES SubGroups(sub_group_id)		
	);		
	-- 6. Favorites Table		
	CREATE TABLE Favorites (		
id	SERIAL PRIMARY KEY,		
user_id	INTEGER NOT NULL,		
report_id	INTEGER NOT NULL,		
	FOREIGN KEY (user_id) REFERENCES Users(user_id),		
	FOREIGN KEY (report_id) REFERENCES Reports(report_id),		
	UNIQUE(user_id, report_id)		
	);		
	--7 Notification Table		
	CREATE TABLE Notifications (		
notification_id	SERIAL PRIMARY KEY,		
user_id	INTEGER NOT NULL,		
report_id	INTEGER NOT NULL,		
created_at	TIMESTAMP DEFAULT CURRENT_TIMESTAMP,		
	FOREIGN KEY (user_id) REFERENCES Users(user_id),		
	FOREIGN KEY (report_id) REFERENCES Reports(report_id)		
	);		
	-- Groups		
	INSERT INTO Groups (group_name) VALUES ('Finance'), ('HR');		
	-- SubGroups		
	INSERT INTO SubGroups (name, group_id) VALUES ('Tax Reports', 1), ('Salary Slips', 2);		
	-- Users		

INSERT INTO Users (email, password, user_role, group_id)			
VALUES			
('admin@test.com', 'admin123', 'admin', NULL),			
('user1@test.com', 'user123', 'user', 1),			
('user2@test.com', 'user456', 'user', 2);			
-- User_SubGroups (assign users to subgroups)			
INSERT INTO User_SubGroups (user_id, sub_group_id) VALUES			
(2, 1), -- user1 in Tax Reports			
(3, 2); -- user2 in Salary Slips			
-- Reports			
INSERT INTO Reports (name, type, date, folder, sub_group_id) VALUES			
('Quarterly Tax Report', 'PDF', '2025-08-01', 'Tax Reports', 1),			
('Annual Salary Report', 'Excel', '2025-07-01', 'Salary Slips', 2);			
-- Favorites (optional for testing)			
INSERT INTO Favorites (user_id, report_id) VALUES (2, 1);			
-- Notifications			
INSERT INTO Notifications (user_id, report_id) VALUES (2, 1), (3, 2);			