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-- USERS Table CREATE TABLE Users ( user_id NUMBER GENERATED BY DEFAULT ON
NULL AS IDENTITY PRIMARY KEY, name VARCHAR2(100) NOT NULL, email
VARCHAR2(100) UNIQUE NOT NULL, password VARCHAR2(255) NOT NULL, user_type
VARCHAR2(10) DEFAULT 'user', -- Values: 'user', 'admin' preferences CLOB -- Simulating
JSON using CLOB );

-- MOOD LOGS Table CREATE TABLE MoodLogs ( log_id NUMBER GENERATED BY DEFAULT
ON NULL AS IDENTITY PRIMARY KEY, user_id NUMBER, mood VARCHAR2(50), log_time
TIMESTAMP DEFAULT CURRENT_TIMESTAMP, CONSTRAINT fk_moodlogs_user FOREIGN
KEY (user_id) REFERENCES Users(user_id) );

-- MOOD TYPES Table CREATE TABLE MoodTypes ( mood VARCHAR2(50) PRIMARY KEY,
description CLOB );

-- GENRES Table CREATE TABLE Genres ( genre_id NUMBER GENERATED BY DEFAULT ON
NULL AS IDENTITY PRIMARY KEY, name VARCHAR2(50) UNIQUE NOT NULL );

-- ARTISTS Table CREATE TABLE Artists ( artist_id NUMBER GENERATED BY DEFAULT ON
NULL AS IDENTITY PRIMARY KEY, name VARCHAR2(100) UNIQUE NOT NULL );

-- SONGS Table CREATE TABLE Songs ( song_id NUMBER GENERATED BY DEFAULT ON
NULL AS IDENTITY PRIMARY KEY, title VARCHAR2(100) NOT NULL, artist_id NUMBER,
genre_id NUMBER, mood_category VARCHAR2(50), energy_level NUMBER, -- Add
validation in trigger if needed tempo NUMBER, spotify_id VARCHAR2(100), CONSTRAINT
fk_songs_artist FOREIGN KEY (artist_id) REFERENCES Artists(artist_id), CONSTRAINT
fk_songs_genre FOREIGN KEY (genre_id) REFERENCES Genres(genre_id), CONSTRAINT
fk_songs_mood FOREIGN KEY (mood_category) REFERENCES MoodTypes(mood) );

-- RECOMMENDATIONS Table CREATE TABLE Recommendations ( rec_id NUMBER
GENERATED BY DEFAULT ON NULL AS IDENTITY PRIMARY KEY, user_id NUMBER, song_id
NUMBER, log_id NUMBER, rec_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
CONSTRAINT fk_recommend_user FOREIGN KEY (user_id) REFERENCES Users(user_id),
CONSTRAINT fk_recommend_song FOREIGN KEY (song_id) REFERENCES Songs(song_id),
CONSTRAINT fk_recommend_log FOREIGN KEY (log_id) REFERENCES MoodLogs(log_id) );

-- FEEDBACK Table CREATE TABLE Feedback ( feedback_id NUMBER GENERATED BY
DEFAULT ON NULL AS IDENTITY PRIMARY KEY, user_id NUMBER, song_id NUMBER, rating
NUMBER, -- Validation can be added with a CHECK or trigger comments CLOB,
feedback_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP, CONSTRAINT
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fk_feedback_user FOREIGN KEY (user_id) REFERENCES Users(user_id), CONSTRAINT
fk_feedback_song FOREIGN KEY (song_id) REFERENCES Songs(song_id) );

-- PLAYLISTS Table CREATE TABLE Playlists ( playlist_id NUMBER GENERATED BY DEFAULT
ON NULL AS IDENTITY PRIMARY KEY, user_id NUMBER, name VARCHAR2(100), created_at
TIMESTAMP DEFAULT CURRENT_TIMESTAMP, CONSTRAINT fk_playlist_user FOREIGN KEY
(user_id) REFERENCES Users(user_id) );

-- PLAYLIST SONGS Table (Many-to-Many) CREATE TABLE PlaylistSongs ( playlist_id
NUMBER, song_id NUMBER, CONSTRAINT pk_playlist_songs PRIMARY KEY (playlist_id,
song_id), CONSTRAINT fk_ps_playlist FOREIGN KEY (playlist_id) REFERENCES
Playlists(playlist_id), CONSTRAINT fk_ps_song FOREIGN KEY (song_id) REFERENCES
Songs(song_id) );

-- MOOD TYPES INSERT INTO MoodTypes (mood, description) VALUES ('Happy', 'Bright and
joyful emotion.');?>
INSERT INTO MoodTypes (mood, description) VALUES ('Sad', 'Low and
melancholic feeling.');?>
INSERT INTO MoodTypes (mood, description) VALUES ('Relaxed',
'Calm and soothing state.');?>
INSERT INTO MoodTypes (mood, description) VALUES
('Energetic', 'High energy and motivation.');?>
INSERT INTO MoodTypes (mood, description)
VALUES ('Peaceful', 'Emotionally still and calm.');?>
INSERT INTO MoodTypes (mood,
description) VALUES ('Angry', 'Feeling of frustration or rage.');?>
INSERT INTO MoodTypes
(mood, description) VALUES ('Anxious', 'Nervous or worried emotion.');

-- GENRES INSERT INTO Genres (name) VALUES ('Lofi'); INSERT INTO Genres (name)
VALUES ('Classical'); INSERT INTO Genres (name) VALUES ('Pop'); INSERT INTO Genres
(name) VALUES ('Jazz'); INSERT INTO Genres (name) VALUES ('Electronic'); INSERT INTO
Genres (name) VALUES ('Ambient'); INSERT INTO Genres (name) VALUES ('Rock');

-- ARTISTS INSERT INTO Artists (name) VALUES ('Ludovico Einaudi'); INSERT INTO Artists
(name) VALUES ('Lo-Fi Beats'); INSERT INTO Artists (name) VALUES ('Taylor Swift'); INSERT
INTO Artists (name) VALUES ('Hans Zimmer'); INSERT INTO Artists (name) VALUES ('LoFi
Chillhop'); INSERT INTO Artists (name) VALUES ('Imagine Dragons'); INSERT INTO Artists
(name) VALUES ('Nirvana'); INSERT INTO Artists (name) VALUES ('Yiruma');

-- USERS INSERT INTO Users (name, email, password, user_type, preferences) VALUES
('Arihant Khaitan', 'arihant@example.com', 'secure123', 'user', '{"preferred_moods":'
["Relaxed", "Happy"], "favorite_genres": ["Lofi"]}', ('Aditya Khandelwal',
'aditya@example.com', 'secure456', 'user', '{"preferred_moods": ["Energetic"],'
"favorite_genres": ["Pop"]}', ('Shaan Chandhok', 'shaan@example.com', 'secure789',
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'admin', {"preferred_moods": ["Sad"], "favorite_genres": ["Classical"]}), ('Neha Singh',  
'neha@example.com', 'neha123', 'user', {"preferred_moods": ["Peaceful"],  
"favorite_genres": ["Ambient"]}), ('Rahul Mehra', 'rahul@example.com', 'rahul456', 'user',  
{"preferred_moods": ["Angry", "Energetic"], "favorite_genres": ["Rock", "Pop"]});  
  
-- SONGS (3 per mood = 21 total) -- RELAXED INSERT INTO Songs VALUES (DEFAULT,  
'Nuvole Bianche', 1, 2, 'Relaxed', 3, 60, 'spotify:nuvolebianche'); INSERT INTO Songs  
VALUES (DEFAULT, 'Weightless', 4, 6, 'Relaxed', 2, 55, 'spotify:weightless'); INSERT INTO  
Songs VALUES (DEFAULT, 'Nightfall', 5, 1, 'Relaxed', 3, 65, 'spotify:nightfall');  
  
-- HAPPY INSERT INTO Songs VALUES (DEFAULT, 'Chill Vibes', 2, 1, 'Happy', 4, 70,  
'spotify:chillvibes'); INSERT INTO Songs VALUES (DEFAULT, 'Good Day', 2, 3, 'Happy', 5, 85,  
'spotify:goodday'); INSERT INTO Songs VALUES (DEFAULT, 'Pocketful of Sunshine', 3, 3,  
'Happy', 6, 90, 'spotify:pocketful');  
  
-- ENERGETIC INSERT INTO Songs VALUES (DEFAULT, 'Shake It Off', 3, 3, 'Energetic', 9,  
120, 'spotify:shakeitoff'); INSERT INTO Songs VALUES (DEFAULT, 'Stronger', 3, 3,  
'Energetic', 9, 130, 'spotify:stronger'); INSERT INTO Songs VALUES (DEFAULT, 'The Nights',  
3, 5, 'Energetic', 8, 128, 'spotify:thenights');  
  
-- SAD INSERT INTO Songs VALUES (DEFAULT, 'Evening Lofi', 5, 1, 'Sad', 3, 55,  
'spotify:eveninglofi'); INSERT INTO Songs VALUES (DEFAULT, 'River Flows In You', 8, 2,  
'Sad', 2, 52, 'spotify:riverflows'); INSERT INTO Songs VALUES (DEFAULT, 'Let Her Go', 3, 3,  
'Sad', 4, 65, 'spotify:lethergo');  
  
-- PEACEFUL INSERT INTO Songs VALUES (DEFAULT, 'Time', 4, 2, 'Peaceful', 2, 58,  
'spotify:time'); INSERT INTO Songs VALUES (DEFAULT, 'Bliss', 5, 1, 'Peaceful', 2, 50,  
'spotify:bliss'); INSERT INTO Songs VALUES (DEFAULT, 'Weight of the World', 4, 6,  
'Peaceful', 3, 57, 'spotify:weightworld');  
  
-- ANGRY INSERT INTO Songs VALUES (DEFAULT, 'Believer', 6, 7, 'Angry', 8, 130,  
'spotify:believer'); INSERT INTO Songs VALUES (DEFAULT, 'Smells Like Teen Spirit', 7, 7,  
'Angry', 9, 125, 'spotify:teen'); INSERT INTO Songs VALUES (DEFAULT, 'Numb', 6, 7, 'Angry',  
8, 110, 'spotify:numb');  
  
-- ANXIOUS INSERT INTO Songs VALUES (DEFAULT, 'Lofi Anxiety Relief', 5, 1, 'Anxious', 3,  
60, 'spotify:anxiouslofi'); INSERT INTO Songs VALUES (DEFAULT, 'Reflections', 1, 2,  
'Anxious', 2, 58, 'spotify:reflections'); INSERT INTO Songs VALUES (DEFAULT, 'Calm Down',  
2, 1, 'Anxious', 3, 62, 'spotify:calmdown');
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-- MOOD LOGS (one for each user) INSERT INTO MoodLogs (user_id, mood) VALUES (1, 'Relaxed'); INSERT INTO MoodLogs (user_id, mood) VALUES (2, 'Energetic'); INSERT INTO MoodLogs (user_id, mood) VALUES (3, 'Sad'); INSERT INTO MoodLogs (user_id, mood) VALUES (4, 'Peaceful'); INSERT INTO MoodLogs (user_id, mood) VALUES (5, 'Angry');

-- RECOMMENDATIONS INSERT INTO Recommendations (user_id, song_id, log_id) VALUES (1, 1, 1); INSERT INTO Recommendations (user_id, song_id, log_id) VALUES (2, 7, 2); INSERT INTO Recommendations (user_id, song_id, log_id) VALUES (3, 10, 3); INSERT INTO Recommendations (user_id, song_id, log_id) VALUES (4, 13, 4); INSERT INTO Recommendations (user_id, song_id, log_id) VALUES (5, 16, 5);

-- FEEDBACK INSERT INTO Feedback (user_id, song_id, rating, comments) VALUES (1, 1, 5, 'Very soothing.); INSERT INTO Feedback (user_id, song_id, rating, comments) VALUES (2, 7, 4, 'Boosted my energy!'); INSERT INTO Feedback (user_id, song_id, rating, comments) VALUES (3, 10, 3, 'Bit too slow.); INSERT INTO Feedback (user_id, song_id, rating, comments) VALUES (4, 13, 5, 'Super peaceful.); INSERT INTO Feedback (user_id, song_id, rating, comments) VALUES (5, 16, 3, 'Good beat, intense!');

-- PLAYLISTS (4 playlists) INSERT INTO Playlists (user_id, name) VALUES (1, 'Morning Chill'); INSERT INTO Playlists (user_id, name) VALUES (2, 'Hype Mode'); INSERT INTO Playlists (user_id, name) VALUES (3, 'Sad Hour'); INSERT INTO Playlists (user_id, name) VALUES (4, 'Peace Pack');

-- PLAYLIST SONGS (3 songs each) -- Playlist 1 INSERT INTO PlaylistSongs VALUES (1, 1); INSERT INTO PlaylistSongs VALUES (1, 2); INSERT INTO PlaylistSongs VALUES (1, 3); -- Playlist 2 INSERT INTO PlaylistSongs VALUES (2, 7); INSERT INTO PlaylistSongs VALUES (2, 8); INSERT INTO PlaylistSongs VALUES (2, 9); -- Playlist 3 INSERT INTO PlaylistSongs VALUES (3, 10); INSERT INTO PlaylistSongs VALUES (3, 11); INSERT INTO PlaylistSongs VALUES (3, 12); -- Playlist 4 INSERT INTO PlaylistSongs VALUES (4, 13); INSERT INTO PlaylistSongs VALUES (4, 14); INSERT INTO PlaylistSongs VALUES (4, 15);
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