/\* create database music\_app \*/

CREATE DATABASE music\_app;

/\* use database music\_app \*/

USE music\_app;

/\* entity \*/

CREATE TABLE artist

(aname CHAR(20),

PRIMARY KEY(aname))

CREATE TABLE album

(abtranum INTEGER,

abname CHAR(20),

date DATE,

aname CHAR(20),

PRIMARY KEY (aname, abtranum),

FOREGIN KEY (aname)

REFERENCES artist

)

CREATE TABLE song

(stranum INTEGER,

sname CHAR(20),

aname CHAR(20),

PRIMARY KEY (aname, stranum),

FOREGIN KEY (aname)

FEFERENCES artist

)

CREATE TABLE featured\_artist

(faname CHAR(20),

PRIMARY KEY (faname))

/\* relation \*/

CREATE TABLE composed\_of

(abtranum INTEGER,

stranum INTEGER,

PRIMARY KEY (abtranum, stranum),

FOREIGN KEY (abtranum)

REFERENCES album,

FOREIGN KEY (stranum)

REFERENCES song

)

CREATE TABLE feature

(faname CHAR(20),

stranum INTEGER,

abtranum CHAR(20),

PRIMARY KEY (faname, stranum, abtranum),

FOREIGN KEY (faname)

REFERENCES featured\_artist,

FOREIGN KEY (stranum)

REFERENCES song,

FOREIGN KEY (abtranum)

REFERNCES album

)

/\* insert data into artist table \*/

INSERT INTO artist VALUES (‘Jason Aldean’);

INSERT INTO artist VALUES (‘Pentatonix’);

INSERT INTO artist VALUES (‘Chris Stapleton’);

INSERT INTO artist VALUES (‘John Prine’);

INSERT INTO artist VALUES (‘LEDGER’);

INSERT INTO artist VALUES (‘Midland’);

INSERT INTO artist VALUES (‘Hillsong Worship’);

INSERT INTO artist VALUES (‘Imagine Dragons’);

INSERT INTO artist VALUES (‘Stone Temple Pilots’);

INSERT INTO artist VALUES (‘Kane Brown’);

/\* insert data into album table \*/

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘Rearview Town’, ‘0000001’, ‘2018-04-13’, ‘Jason Aldean’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘They Don’t Know’, ‘0000002’, ‘2016-09-9’, ‘Jason Aldean’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘PTX Presents: Top Pop, Vol. I’, ‘0000003’, ‘2018-04-13’, ‘Pentatonix’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘A Pentatonix Christmas Deluxe’, ‘0000004’, ‘2017-10-20’, ‘Pentatonix’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘From A Room: Volume 1’, ‘0000005’, ‘2017-05-05’, ‘Chris Stapleton’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘From A Room: Volume 2’, ‘0000006’, ‘2017-12-01’, ‘Chris Stapleton’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘The Tree of Frogiveness’, ‘0000007’, ‘2018-08-13’, ‘John Prine’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘Fair and Square’, ‘0000008’, ‘2006-05-26’, ‘John Prine’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘Ledger - EP’, ‘0000009’, ‘2018-04-13’, ‘LEDGER’);

INSERT INTO album (abtranum, abname, date, aname) VALUES (‘Lon the Rocks’, ‘0000010’, ‘2017-09-22’, ‘Midland’);

/\* insert data into song table \*/

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Dirt To Dust’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘Set it Off’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘Girl Like You’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘You Make It Easy’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Gettin’ Warmed Up’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘Blacktop Gone’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘Drowns the Whiskey’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘Rearview Town’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘Love Me Or Don’t’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘10’, ‘Like You Were Mine’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘11’, ‘Better At Being Who I Am’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘12’, ‘I’ll Wait For You’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘13’, ‘Ride All Night’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘14’, ‘Up In Smoke’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘15’, ‘High Noon Neon’, ‘Rearview Town’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Lights Come On’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘A Little More Summertime’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘This Plane Don’t Go There’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘Comin’ In Hot’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘First Time Again’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘Bad’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘They Don’t Know’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘One Way Won’t Forget’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘Whiskey’d Up’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘10’, ‘In Case You Don’t Remember’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘11’, ‘All Out of Beer’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘12’, ‘Any Ol’ Barstool’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘13’, ‘The Way a Night Should Feel’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘14’, ‘Reason to Love L.A.’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘15’, ‘When the Lights Go Out’, ‘They Don’t Know’, ‘Jason Aldean’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Attention’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘Finesse’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘New Rules x Are You That Somebody’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘Havana’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Perfect’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘Stay’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘Feel It Still’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘Despacito x Shape Of You’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘Issues’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘10’, ‘Praying’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘11’, ‘Sorry Not Sorry’, ‘PTX Presents: Top Pop, Vol. I’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘O Come, All Ye Faithful’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘God Rest Ye Merry gentlemen’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’)

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘White Christmas’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘I’ll Be Home For Christmas’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Up On the Housetop’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘The Christmas Song-Along’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘Coventry Carol’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘Hallelujah’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘Coldest Winter’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘10’, ‘Good To Be Bad’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘11’, ‘Merry Christmas, Happy Holidays’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘12’, ‘Deck the Halls’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘13’, ‘How Great Thou Art’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘14’, ‘Away in a Manger’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘15’, ‘Let it Snow! Let It Snow! Let It Snow!’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘16’, ‘Hallelujah’, ‘A Pentatonix Christmas Deluxe’, ‘Pentatonix’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Broken Halos’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘Last Thing I Needed, First Thing This Morning’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘Second One to Know’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘Up to No Good Livin’’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Either Way’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘I Was Wrong’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘Without Your Love’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘Them Stems’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘Death Row’, ‘From A Room: Volume 1’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Millionaire’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘Hard Livin’’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘Scarecrow in the Garden’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘Nobody’s Lonely Tonight’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Tryin’ to Untangle My Mind’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘A Simple Song’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘Midnight Train to Memphis’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘Drunkard’s Prayer’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘Friendship’, ‘From A Room: Volume 2’, ‘Chris Stapleton’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Knockin’ on Your Screen Door’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘I Have Mey My Love Today’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘Egg & Daughter Nite’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘Summer’s End’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Caravan of Fools’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘Lonesome Friends of Science’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘No Ordinary Blue’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘Boundless Love’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘God Only Knows’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘10’, ‘When I Get to Heaven’, ‘The Tree of Forgiveness’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Glory of True Love’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘Crazy as a Loon’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘Long Monday’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘Taking a Walk’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Some Humans Ain’t Human’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘My Darlin’ Hometown’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘Morning Train’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘The Moon Is Down’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘Clay Pigeons’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘10’, ‘She Is My Everything’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘11’, ‘I Hate It When That Happens to Me’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘12’, ‘Bear Creek Blues’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘13’, ‘Other Side of Town (Live)’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘14’, ‘Safety Joe’, ‘Fair and Square’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Not Dead Yet’, ‘Ledger – EP’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘Warrior’, ‘Ledger – EP’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘Bold’, ‘Ledger – EP’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘Foreigner’, ‘Ledger – EP’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Ruins’, ‘Ledger – EP’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘Iconic’, ‘Ledger – EP’, ‘John Prine’);

INSERT INTO song (stranum, sname, aname) VALUES (‘1’, ‘Lonely for You Only’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘2’, ‘Make a Little’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘3’, ‘Drinkin’ Problem’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘4’, ‘At Least you Cried’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘5’, ‘Burn Out’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘6’, ‘Out of Sight’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘7’, ‘More Than a Fever’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘8’, ‘Check Cashin’ Country’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘9’, ‘Nothin’ New Under the Neon’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘10’, ‘This Old Heart’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘11’, ‘Attitude Adjustment’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘12’, ‘Electric Rodeo’, ‘On the Rocks’, ‘Midland’);

INSERT INTO song (stranum, sname, aname) VALUES (‘13’, ‘Somewhere on the Wind’, ‘On the Rocks’, ‘Midland’);

/\* insert data into featured\_artist table \*/

INSERT INTO featured\_artist VALUES (‘Miranda Lambert’);

INSERT INTO featured\_artist VALUES (‘Kelsea Ballerini’);

INSERT INTO featured\_artist VALUES (‘The Manhattan Transfer’);

INSERT INTO featured\_artist VALUES (‘Jennifer Hudson’);

INSERT INTO featured\_artist VALUES (‘The String Mob’);

INSERT INTO featured\_artist VALUES (‘John Cooper’);

/\* insert data into composed\_of table \*/

/\* insert data into feature table \*/

INSERT INTO feature (faname, stranum, abtranum) VALUES (‘Miranda Lambert’, ‘7’, ‘0000001’);

INSERT INTO feature (faname, stranum, abtranum) VALUES (‘Kelsea Ballerini’, ‘5’, ‘0000002’);

INSERT INTO feature (faname, stranum, abtranum) VALUES (‘The Manhattan Transfer’, ‘3’, ‘0000004’);

INSERT INTO feature (faname, stranum, abtranum) VALUES (‘Jennifer Hudson’, ‘13’, ‘0000004’);

INSERT INTO feature (faname, stranum, abtranum) VALUES (‘The String Mob’, ‘16’, ‘0000004’);

INSERT INTO feature (faname, stranum, abtranum) VALUES (‘John Cooper’, ‘2’, ‘0000009);