CREATE TABLE Member(

memberID VARCHAR(15),

address VARCHAR(50),

areaCode CHAR(3),

city VARCHAR(20),

email VARCHAR(30),

firstName VARCHAR(16),

lastName VARCHAR(20),

phoneNumber VARCHAR(7),

state CHAR(2),

zip CHAR(5),

CONSTRAINT Member\_mID\_uk UNIQUE (memberID),

CONSTRAINT Member\_Lname\_Fname\_pk PRIMARY KEY (lastName, firstName)

);

CREATE TABLE Play(

playID VARCHAR(15),

author VARCHAR(20),

numberOfActs NUMBER(2,0),

title VARCHAR(15),

type VARCHAR(15),

numberOfSets VARCHAR(2),

CONSTRAINT Play\_plID\_pk PRIMARY KEY (playID)

);

CREATE TABLE Sponsor(

businessName VARCHAR(15),

income NUMBER(8,2),

CONSTRAINT Sponsor\_busName\_pk PRIMARY KEY (businessName)

);

CREATE TABLE Subscriber(

subscriberID VARCHAR(15),

address VARCHAR(50),

areaCode CHAR (3),

city VARCHAR(15),

email VARCHAR(30),

firstName VARCHAR(15),

lastName VARCHAR(20),

lastPlay VARCHAR(30),

phoneNumber CHAR(7),

state CHAR(2),

zip CHAR(5),

CONSTRAINT Subscriber\_subID\_pk PRIMARY KEY (subscriberID));

CREATE TABLE Production(

playID VARCHAR(15),

cost NUMBER(8,2),

yearOfTheProduction CHAR(4),

seasonStartDate DATE,

seasonEndDate DATE,

CONSTRAINT Production\_yearOfProd\_seasonStart\_seasonEnd\_uk UNIQUE(yearOfTheProduction, seasonStartDate, seasonEndDate),

CONSTRAINT Production\_plID\_pk PRIMARY KEY (playID),

CONSTRAINT Production\_plID\_fk FOREIGN KEY (playID) REFERENCES Play(playID)

);

CREATE TABLE Performance(

playId VARCHAR(15),

“date” DATE,

time VARCHAR(10),

year CHAR (4),

CONSTRAINT Performance\_playId\_dte\_year\_pk PRIMARY KEY (playId, “date”, year),

CONSTRAINT Performance\_playId\_fk FOREIGN KEY(playId)REFERENCES Play(playID)

);

CREATE TABLE TicketSale(  
 ID VARCHAR(15),  
 ticketIncome NUMBER(8,2),

CONSTRAINT TicketSale\_mID\_pk PRIMARY KEY (memberID),

CONSTRAINT TicketSale\_mID\_fk FOREIGN KEY (memberID) REFERENCES Member(memberID)

);

CREATE TABLE DuesPayment(

memberID VARCHAR(15),

duesPaid CHAR(1),

dateofDuesSubmission DATE,

duesAmount NUMBER,

CONSTRAINT DuesPayment\_mID\_duesPaid\_pk PRIMARY KEY(memberID, duesPaid),

CONSTRAINT DuesPayment\_mID\_fk FOREIGN KEY(memberID)REFERENCES Member(memberID)

);

CREATE TABLE Donation(  
 businessName VARCHAR(25),  
 donationNumber VARCHAR(10),

CONSTRAINT Donation\_donNum\_pk PRIMARY KEY(donationNumber)

);

CREATE TABLE Ticket(  
 qrCode VARCHAR(10),  
 playDate DATE,  
 playNames VARCHAR(25),  
 playTime VARCHAR(10),  
 price VARCHAR(10),  
 seat CHAR(3),  
 seatNumbers VARCHAR(3),

CONSTRAINT Ticket\_qrC\_pk PRIMARY KEY(qrCode)

);

INSERT INTO Member VALUES ('000001', '345 Stein Rd', '546', 'Tampa', 'judge.aaron@gmail.com', 'Aaron', 'Judge', '6437865', 'FL', '33601');

INSERT INTO Member VALUES ('000002', '23 Garden Way', '718', 'Manhattan', 'lebronnyk@gmail.com', 'Lebron', 'James', '2346432', 'NY', '10001');

INSERT INTO Member VALUES ('000003', '4 Superbowl St','914','Newark', 'objdances@gmail.com', 'Odell', 'Beckham Jr', '7957865', 'NJ','07101');

INSERT INTO Member VALUES ('000004', '5403 Ranger Way','718', 'Manhattan', 'king30@yahoo.com', 'Henrik', 'Lundqvist', '9761002', 'NY', '10001');

INSERT INTO Member VALUES ('000005', '30 Warrior Ave', '415', 'San Francisco', 'wardell@gmail.com', 'Stephen', 'Curry', '1112235', 'CA','94016');

INSERT INTO Member VALUES ('000006', '7 Superbowl St','914','Newark', 'objdances123@gmail.com', 'Mark', 'Beckham Sr', '0012343', 'NY','07101');

INSERT INTO Member VALUES ('000007', '23 Erie St','845', 'Blauvelt', 'smokehouse@yahoo.com', 'Kyle', 'Bailey', '3294849', 'NY', '10913');

INSERT INTO Member VALUES ('000008', '564 Jokers St', '718', 'Staten Island', 'jokerjoe@gmail.com', 'Joe', 'Gatto', '3591013', 'NY','10301');

INSERT INTO Play VALUES ('143', 'Hao Dong', '3', 'Lion King', 'Drama', '20');

INSERT INTO Play VALUES ('213', 'Jimmy Buffett', '3', 'Margaritaville', 'Musical', '32');

INSERT INTO Play VALUES ('658', 'Robin Williams', '3', 'Aladdin', 'Drama', '22');

INSERT INTO Play VALUES ('496', 'Lin Manuel', '3', 'Hamilton', 'Musical', '18');

INSERT INTO Play VALUES ('104', 'Jack Black', '3', 'Rock of Ages', 'Action', '13');

INSERT INTO Play VALUES ('639', 'Elsa Olaf', '2', 'Frozen', 'Musical', '15');

INSERT INTO Play VALUES ('221', 'Joseph Smith', '3', 'Book of Mormon', 'Comedy', '27');

INSERT INTO Play VALUES ('897', 'Patrick Star', '2', 'Spongebob', 'Comedy', '21');

INSERT INTO Sponsor VALUES('McDonalds', '2000.20');

INSERT INTO Sponsor VALUES('Adidas', '14000.00');

INSERT INTO Sponsor VALUES('Under Armour', '5000.60');

INSERT INTO Sponsor VALUES('Hershey', '1000.00');

INSERT INTO Sponsor VALUES('Peanuts', '4543.56');

INSERT INTO Subscriber VALUES ('100001', '1 Marble Ave', '914', 'Hawthorne', 'jadler@gmail.com', 'Jake', 'Adler', 'Aladdin', '9873566', 'NY', '33601');

INSERT INTO Subscriber VALUES ('100002', '4456 E. 53rd Street', '718', 'Manhattan', 'erob234@gmail.com', 'Emily', 'Robinson','Aladdin', '9773126', 'NY', '10001');

INSERT INTO Subscriber VALUES ('100003', '312 Bush Rd','914','Thornwood', 'farriswheel@gmail.com', 'Michaela', 'Farris ','Aladdin','9870000', 'NY','07101');

INSERT INTO Subscriber VALUES ('100004', '5 West 100th St','718', 'Manhattan', 'sanderstim@yahoo.com', 'Timmy', 'Sanders','Margaritaville','4453566', 'NY', '10001');

INSERT INTO Subscriber VALUES ('100005', '2018 Setters Ave', '914', 'Pleasantville', 'rjax1205@gmail.com', 'Rick', 'Jackson','Aladdin','1233212', 'NY','94016');

INSERT INTO Subscriber VALUES ('100006', '212 Pace Ave', '914', 'Pleasantville', 'bonesy@gmail.com', 'Johnny', 'Bones', 'Aladdin', '0009988', 'NY','94016');

INSERT INTO Subscriber VALUES ('100007', '56 Finnerty Rd', '914', 'Pleasantville', 'champ4life@gmail.com', 'Carl', 'Banks','Aladdin','7778877', 'NY',’94016');

INSERT INTO Subscriber VALUES ('100008', '6789 Wilcox Way', '914', 'Pleasantville', 'chrissyrogers@gmail.com', 'Chrissy', 'Rogers','Margaritaville','4445555', 'NY','94016');

INSERT INTO Production VALUES ('213', '40650.00', '2017', '01-Jan-2017', '31-Dec-2017');

INSERT INTO Production VALUES ('658', '31000.00', '2018', '01-Jan-2018', '31-Dec-2018');

INSERT INTO Production VALUES ('104', '25570.00', '2019', '01-Jan-2019', '31-Dec-2019');

INSERT INTO Performance VALUES ('213', '05-May-2017', '6:00 PM', '2017');

INSERT INTO Performance VALUES ('213', '05-Dec-2017', '6:00 PM', '2017');

INSERT INTO Performance VALUES ('658', '09-May-2018', '6:00 PM', '2018');

INSERT INTO Performance VALUES ('658', '12-Dec-2018', '6:00 PM', '2018');

INSERT INTO Performance VALUES ('104', '23-May-2019', '6:00 PM', '2019');

INSERT INTO Performance VALUES ('104', '10-Dec-2019', '6:00 PM', '2019');

INSERT INTO TicketSale VALUES ('10001', '45.00');

INSERT INTO TicketSale VALUES ('10002', '45.00');

INSERT INTO TicketSale VALUES ('10003', '45.00');

INSERT INTO TicketSale VALUES ('10004', '45.00');

INSERT INTO TicketSale VALUES ('10005', '45.00');

INSERT INTO Donation VALUES ('Lucios Pizza', '100');

INSERT INTO Donation VALUES ('Sals Pizza', '101');

INSERT INTO Donation VALUES ('Ons', '102');

INSERT INTO Donation VALUES ('Pleasantville Diner', '103');

INSERT INTO Donation VALUES ('Thornwood Diner', '104');

INSERT INTO Ticket VALUES ('123456', '23-May-2019', 'Rock of Ages', '6:00 PM', '45.00', 'B', '12');

INSERT INTO Ticket VALUES ('123457', '23-May-2019', 'Rock of Ages', '6:00 PM', '45.00', 'B', '13');

INSERT INTO Ticket VALUES ('123458', '23-May-2019', 'Rock of Ages', '6:00 PM', '45.00', 'B', '14');

INSERT INTO Ticket VALUES ('123459', '23-May-2019', 'Rock of Ages', '6:00 PM', '45.00', 'B', '15');

INSERT INTO Ticket VALUES ('123480', '23-May-2019', 'Rock of Ages', '6:00 PM', '45.00', 'B', '16');

INSERT INTO Ticket VALUES ('123461', '23-May-2019', 'Rock of Ages', '6:00 PM', '45.00', 'B', '17');

INSERT INTO DuesPayment VALUES('000001', 'Y', '03-Jan-2019', '20.00')

INSERT INTO DuesPayment VALUES('000002', 'Y', '03-Jan-2019', '20.00')

INSERT INTO DuesPayment VALUES('000003', 'N', '', '20.00')

INSERT INTO DuesPayment VALUES('000004', 'Y', '03-Jan-2019', '20.00')

INSERT INTO DuesPayment VALUES('000005', 'Y', '03-Jan-2019', '20.00')

INSERT INTO DuesPayment VALUES('000006', 'N', '', '20.00')

INSERT INTO DuesPayment VALUES('000007', 'Y', '03-Jan-2019', '20.00')

INSERT INTO DuesPayment VALUES('000008', 'Y', '03-Jan-2019', '20.00')

1. Find the average cost of any production the theater has produced so far.

SELECT AVG(cost)

FROM Production;

2. Find subscribers from Pleasantville who last saw the production of Margaritaville.

SELECT firstName, lastName

FROM Subscriber

WHERE lastPlay = 'Margaritaville' AND city = 'Pleasantville';

3. Find the members who are not from New York and display their names and the state from which they are from.

SELECT firstName, lastName, state

FROM Member

WHERE state != 'NY';

4. Find all the musical plays where the number of sets is greater than the average number of sets for all plays.

SELECT title

FROM Play

WHERE numberOfSets > AVG(numberOfSets) AND type = 'musical';

5. Find all sponsors where the donation value is greater than $2,000 and display their name.

SELECT businessName

FROM Donation

WHERE donationNumber > 2000.00;