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Project Report:

VENUE BOOKING APPLICATION

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# Project Summary

* Background:

When one must book a venue for parties, receptions, meetings, conferences or marriage. We must move around different places fetch for the prices, compare them and select one venue as per feasibility. Even the venues who have their own websites give the option to call at the venue and then the same mentioned process is to be repeated. But there is no centralized system from where a person checks the availability of the different venues, get the prices, compare them and book them on a click. Using this proposed system one can perform all the mentioned functions by just sitting in one place.

The system will allow the venue owners to list the venue on the website, where a potential customer can visit and check the listings. A customer can go through the posted listings and book the venue as per the ratings and his/her liking or feasibility. Also, an event comes with a lot of arrangements like catering, photographer, makeup artist, decorators, anchors, DJs, etc. On this system, a vendor can also list his/her services and directly connect to its customers as per their needs. This centralized system will be beneficial for the customer, vendor and venue owner and will save a lot of money, time and energy.

* Designed Solution:
  + The customer will log into the website, enter the details and select the event type.
  + A list of venues and vendors as per his preference will be displayed to him.
  + From the venues and vendors listed a customer can directly select the both as per the availability.
  + After a customer has finished with the event, he/she can rate the venue.
  + The ratings will be beneficial for future customers.
  + A venue owner can access his/her venue data and can add/delete/modify the listing.
  + A venue owner can look into the order details and make arrangements as per the customer and vendor requirements.
  + A vendor can look into the order details and plan as per the event
  + An admin can access all the records i.e. Venue, Vendor listings, and the orders.
  + An admin can Add/Modify/Delete customer accounts.

# Entity and Attribute table

|  |  |
| --- | --- |
| **Table Name and Attributes** | **Description** |
| Customer | Stores all customers data |
| CustomerID  FirstName  LastName  ContactNumber  Email\_ID  City  State  DateRequired  Budget | PRIMARY KEY: Each customer will have a unique ID |
| OrderDetails | Stores all order data |
| OrderID  CustomerID  VenueID  BookingDate  BookingTime  VenueBookingDate  OrderTotal  Requirements | PRIMARY KEY: Each order has a unique ID to identify an order.  FOREIGN KEY: VenueID, CustomerID  The table will have 2 foreign keys which will help venue owners fetch the required data of order.  OrderTotal is rate of venue added with rate of vendor. |
| Venue | Stores all the listed Venues |
| VenueID  VOwnerID  VenueName  VenueType  DateAvailable  Area  Rate  AddressVenue  City  StateName  ContactNumber | PRIMARY KEY: Each venue will have a unique ID i.e. the VenueID  VenueType: Lawn, Banquet, Party Hall  DateAvailable: Availability Date  Area: Area in Square Meters  Rate: Amount Charged.  FOREIGN KEY: VownerID  The Table will have one foreign key which will help venue owners update and edit their listings. |
| Venue Owner | Stores all the Venue Owners |
| VOwnerID  VOwnerName  NumberOfVenues  ContactNumber  Email\_ID | PRIMARY KEY: Each venue owner has a unique VOwnerID to identify an owner. |
| Vendor | Stores all the Vendors |
| VendorID  VendorType  VendorName  City  State  ContactNumber  Email\_ID | PRIMARY KEY: Each vendor has an unique VendorID to identify a vendor.  VendorType: catering, photographer, makeup artist, decorators, anchors, DJs |
| Rating | Stores all the ratings |
| RateID  VenueID  Rate  Comment | PRIMARY KEY: Each Rating will have a unique RateID  Comment: A comment about a venue can be passed with a rating.  Rate (Rating): On scale of 1-5 |
| CustomerRate | Associative Entity |
| CustomerRateID  RateID  CustomerID | PRIMARY KEY: To fetch a rating each rating will have a CustomerRateID  FOREIGN KEYS: RateID and CustomerID . |
| VendorOrder | Associative Entity |
| VendorOrderID  VendorID  OrderID | PRIMARY KEY: To fetch a Vendor related to an order each vendor will have VendorOrderID.  FOREIGN KEYS: VendorID and OrderID. |

# Relational Data Model

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJpc2hhYmggVXBhZGh5ZQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADODcAAJKSAAIAAAADODcAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ACiiigAooooAKKKKACiiigAqjqH30+lXqrXVu0zKVxwO9NDRnUVZ+wS+q/nR9gl9V/OgZWoqz9gl9V/Oj7BL6r+dAFOWGG4jEdzBFOgO4LLGHAPrzUP9mad/0DbL/wGT/CtL7BL6r+dH2CX1X86abWwmk9zN/szTv+gbZf+Ayf4VNDDDbxmO2gigQnJWKMICfXirn2CX1X86PsEvqv50Nt7haK2K1FWfsEvqv50fYJfVfzpDuVqKs/YJfVfzo+wS+q/nQBWoqz9gl9V/Oj7BL6r+dAFairP2CX1X86PsEvqv50AVqKs/YJfVfzo+wS+q/nQBWoqz9gl9V/Oj7BL6r+dAFairP2CX1X86PsEvqv50AVqKs/YJfVfzo+wS+q/nQBWoqz9gl9V/Oj7BL6r+dAFairP2CX1X86PsEvqv50AV1+8PrWzWeLGUEfd/OtCkJhRRRQIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAG0opKUUxi0UUUhBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBlC/wBTiuJo5NLmnQSt5ckckYBTPHBOavzzSxWvmxWzzSYH7pWAP5k4qaincRmR6nfPIFfRbmME8sZYzj8mq3eXE1vEGt7SS6YnGyNlBHv8xFWKKLgZ9vqF5NOqS6TcQIesjyRkD8mzU17dXFtt+z2Mt3u6+W6rt/76Iq1RRcCjaXt1cTbJ9Mmtlx995EI/QmlvL26t5Qtvps10uM743QAe3JFXaKLgVLK7uLkt9osJbXHQyOrZ/wC+SaiudQvIbhkh0m4uEHSRJIwD+bA1oUUXVwK9ncTXEZa4tJLUg8LIykn/AL5JqrLqV9HKypo1zIoOA6yxgN78tWlRRcCG2mlmt/Mltngf/nm7An8wcVROqX4JA0O6Pv5sX/xValFFwIRNIbTzTbuJNufJ3Ddn0znFURql+WAOh3QHr5sX/wAVWpRRcCGeaWK182K2eaTA/dKwB/MnFUo9TvnkCvotzGCeWMsZA/Jq06KLgV7y4mt4g1vaSXTE42RsoI9/mIqvb6heTTqkuk3ECHrI8kZA/Js1oUUXAq3t1cW237PYy3e7r5bqu3/voio7S9uribZPpk1suPvvIhH6E1eoouBSvL26t5Qtvps10uM743QAe3JFOsru4uS32iwltcdDI6tn/vkmrdFF9AM+51C8huGSHSbi4QdJEkjAP5sDVizuJriMtcWklqQeFkZST/3yTViii4GbLqV9HKypo1zIoOA6yxgN78tVy2mlmt/Mltngf/nm7An8wcVNRRcDLOqX4JA0O6Pv5sX/AMVV4TSG08027iTbnydw3Z9M5xU1FFwMsapflgDod0B6+bF/8VV6eaWK182K2eaTA/dKwB/MnFTUUXAzI9TvnkCvotzGCeWMsZA/Jqt3lxNbxBre0kumJxsjZQR7/MRViii4Gfb6heTTqkuk3ECHrI8kZA/Js1Ne3Vxbbfs9jLd7uvluq7f++iKtUUXAo2l7dXE2yfTJrZcffeRCP0Jpby9ureULb6bNdLjO+N0AHtyRV2ii4FSyu7i5LfaLCW1x0Mjq2f8AvkmornULyG4ZIdJuLhB0kSSMA/mwNaFFF1cCkjz39jMk9rJaM6FAJGVuo6/KTU9nAbaxggJ3GKNUJHfAxU1FFwsFFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUANpRSUopjFooopCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAG0opKBTGOooyKMikIKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMijIoAKKMiigD/9k=)

VISIO

A screenshot of a social media post

Description automatically generated

Access Relationship Diagram

# SQL Script (Create and Insert)

1. Create Statements
   1. Customer Table Create Statement

CREATE TABLE Customer

(

CustomerID CHAR(10) NOT NULL,

FirstName VARCHAR(30) NOT NULL,

LastName VARCHAR(30) NOT NULL,

ContactNumber INT,

Email\_ID VARCHAR(30) NOT NULL,

City VARCHAR(30) NOT NULL,

StateName VARCHAR(30) NOT NULL,

DateRequired DATE NOT NULL,

Budget INT,

CONSTRAINT Customer\_PK PRIMARY KEY(CustomerID)

);

ALTER TABLE Customer ALTER COLUMN ContactNumber VARCHAR(10);

* 1. Venue Owner Table Create Statement

CREATE TABLE VenueOwner

(

VOwnerID CHAR(10) NOT NULL,

VOwnerName VARCHAR(30) NOT NULL,

NumberOfVenues INT NOT NULL,

ContactNumber INT,

Email\_ID VARCHAR(30) NOT NULL,

CONSTRAINT VenueOwner\_PK PRIMARY KEY(VOwnerID)

);

ALTER TABLE VenueOwner ALTER COLUMN ContactNumber VARCHAR(10);

* 1. Vendor Table Create Statement

CREATE TABLE Vendor

(

VendorID CHAR(10) NOT NULL,

VendorName VARCHAR(30) NOT NULL,

VendorType VARCHAR(30) NOT NULL,

City VARCHAR(30) NOT NULL,

StateName VARCHAR(30) NOT NULL,

ContactNumber VARCHAR(10) NOT NULL,

Email\_ID VARCHAR(30) ,

Rate VARCHAR(10)

CONSTRAINT Vendor\_PK PRIMARY KEY(VendorID)

);

* 1. Venue Table Create Statement

CREATE TABLE Venue

(

VenueID CHAR(10) NOT NULL,

VOwnerID CHAR(10) NOT NULL,

VenueName VARCHAR(30) NOT NULL,

VenueType VARCHAR(30) NOT NULL,

DateAvailable VARCHAR(30) NOT NULL,

Area VARCHAR(30) NOT NULL,

Rate VARCHAR(30) NOT NULL,

AddressVenue VARCHAR(40) NOT NULL,

City VARCHAR(30) NOT NULL,

StateName VARCHAR(30) NOT NULL,

ContactNumber INT NOT NULL,

Capacity INT NOT NULL

CONSTRAINT Venue\_PK PRIMARY KEY(VenueID),

CONSTRAINT Venue\_FK FOREIGN KEY(VOwnerID) REFERENCES VenueOwner(VOwnerID)

);

* 1. Rating Table Create Statement

CREATE TABLE Rating

(

RateID CHAR(10) NOT NULL,

VenueID CHAR(10) NOT NULL,

Comment VARCHAR(30),

CONSTRAINT Rating\_PK PRIMARY KEY(RateID),

CONSTRAINT Rating\_FK FOREIGN KEY(VenueID) references Venue(VenueID)

);

* 1. Order Details Table Create Statement

CREATE TABLE OrderDetails

(

OrderID CHAR(10) NOT NULL,

CustomerID CHAR(10) NOT NULL,

VenueID CHAR(10) NOT NULL,

BookingDate DATE NOT NULL,

BookingTime TIME NOT NULL,

VenueBookingDate DATE NOT NULL,

OrderTotal BIGINT NOT NULL,

Requirements VARCHAR(120),

CONSTRAINT OrderDetails\_PK PRIMARY KEY(OrderID),

CONSTRAINT OrderDetails\_FK1 FOREIGN KEY(CustomerID) REFERENCES Customer(CustomerID),

CONSTRAINT OrderDetails\_FK2 FOREIGN KEY(VenueID) REFERENCES Venue(VenueID)

);

* 1. Vendor Order Table Create Statement

CREATE TABLE VendorOrder

(

VendorOrderID CHAR(10) NOT NULL,

VendorID CHAR(10) NOT NULL,

OrderID CHAR(10) NOT NULL,

CONSTRAINT VendorOrder\_PK PRIMARY KEY(VendorOrderID),

CONSTRAINT VendorOrder\_FK1 FOREIGN KEY(VendorID) references Vendor(VendorID),

CONSTRAINT VendorOrder\_FK2 FOREIGN KEY(OrderID) references OrderDetails(OrderID)

);

* 1. Customer Rate Table Create Statement

CREATE TABLE CustomerRate

(

CustomerRateID CHAR(10) NOT NULL,

RateID CHAR(10) NOT NULL,

CustomerID CHAR(10) NOT NULL,

CONSTRAINT CustomerRate\_PK PRIMARY KEY(CustomerRateID),

CONSTRAINT CustomerRate\_FK1 FOREIGN KEY(RateID) references Rating(RateID),

CONSTRAINT CustomerRate\_FK2 FOREIGN KEY(CustomerID) references Customer(CustomerID)

);

1. Insert Statements
   1. Customer Table Insert Statements

SELECT \* FROM Customer;

INSERT INTO Customer VALUES ('2','Jhon','Doe','3143199140','JHON@gmail.com','Rochester','New York','1/1/2020','15000'),

('3','Max','Will','9147188100','MAXW@gmail.com','Buffalo','New York','13/1/2020','32000'),

('4','Janet','Aldro','4147335900','JANET@gmail.com','Syracuse','New York','12/12/2019','19000'),

('5','Chandler','Bing','3571598523','CB@gmail.com','Syracuse','New York','25/12/2019','124000');

* 1. Venue Owner Table Insert Statements

INSERT INTO VenueOwner VALUES ('VO1','Jagdish Verma','5','1597896354','jv@jvenues.com'),

('VO2','Saurbh Negi','3','1147896542','sn@snvenues.com'),

('VO3','Kabir Raghvan','2','8745632147','kr@krvenues.com'),

('VO4','Eric Xi','10','7418529632','ex@exvenues.com'),

('VO5','Teresa May','7','7417414568','tm@tmvenues.com');

* 1. Vendor Table Insert Statements

INSERT INTO Vendor VALUES ('VD1','Jack Ville','Photographer','Syracuse','New York','8527419632','Ja@vendors.com','500'),

('VD2','Lin Josef','Decorater','Syracuse','New York','8517419992','Li@vendors.com','2000'),

('VD3','Ben Turberry','Event Manager','Buffalo','New York','6527418811','Be@vendors.com','2500'),

('VD4','Marilyn Monroe','DJ','Buffalo','New York','7417413322','Ma@vendors.com','800'),

('VD5','Nolan Noble','MakeUp Artist','Rochester','New York','8974144739','No@vendors.com','1500');

* 1. Venue Table Insert Statements

INSERT INTO Venue VALUES

('Vid1','VO2','Negi Banquets','Banquet','12/10/2019-12/31/2019','Hoboken','9000','1321, Samuel Avenue, Hoboken','Syracuse','New York','147258369','100'),

('Vid2','VO3','Raghvan Lawns','Lawns','12/1/2019-1/31/2020','Dewitt','40000','1320, Boost Street,Dewitt','Syracuse','New York','748858369','200'),

('Vid3','VO1','Verma Party Hall','Party Hall','12/12/2019-12/25/2019','Burlington','80000','1322, Barnes Avenue, Burlington','Syracuse','New York','287255477','650'),

('Vid4','VO4','Xi Rooftop','Rooftop','12/5/2019-1/31/2020','Uptown','46000','1329, Wall Avenue, Uptown','Rochester','New York','147258369','550'),

('Vid5','VO5','May Conference Halls','Conference Hall','12/1/2019-1/31/2020','Cireco','175000','1385, Lingston Street, Cireco','Buffalo','New York','147252479','3000');

* 1. Rating Table Insert Statements

INSERT INTO Rating VALUES

('R01','Vid1','Great Venue for Marriages','4'),

('R02','Vid2','Best Lawn for getogethers','5'),

('R03','Vid2','No Generator at the venue','2'),

('R04','Vid4',' ','5'),

('R05','Vid5',' ','5');

* 1. Order Details Table Insert Statements

INSERT INTO OrderDetails VALUES

('O001','1','Vid1','12/25/2019','21:35:00','12/3/2019','14000','NA'),

('O002','2','Vid2','1/3/2020','11:04:00','12/6/2019','42800','NA'),

('O003','3','Vid2','12/31/2019','20:47:00','12/19/2019','43300','NA'),

('O004','4','Vid4','12/14/2019','13:14:00','12/1/2019','46500','Photgrapher Should Arrive at 6 in the Morning'),

('O005','5','Vid5','1/5/2020','17:50:00','12/17/2019','175500','Lights should be Yellow');

* 1. Vendor Order Table Insert Statements

INSERT INTO VendorOrder VALUES ('007','VD2','O003'),

('008','VD4','O003'),('009','VD1','O004'),('100','VD1','O005');

* 1. Customer Rate Table Insert Statements

INSERT INTO CustomerRate values

('CR1','R01','1'),

('CR2','R02','2'),

('CR3','R03','3'),

('CR4','R04','4'),

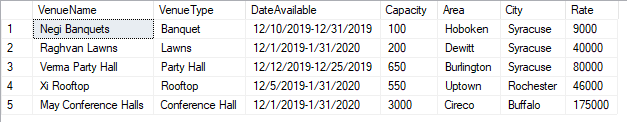
('CR5','R05','5')

# Major Data Questions and Queries

* **List of venues for customers to select as per his availability and feasibility.**

SELECT VenueName,VenueType,DateAvailable,Capacity,Area,City,Rate

FROM Venue ;



This will help the customers go through the venues listed on the online system.

# What are the customer requirements and venue booking date will be queried by the venue owner.

SELECT O.CustomerID, C.FirstName,C.LastName,V.VOwnerID,V.VenueName,O.BookingDate,O.Requirements

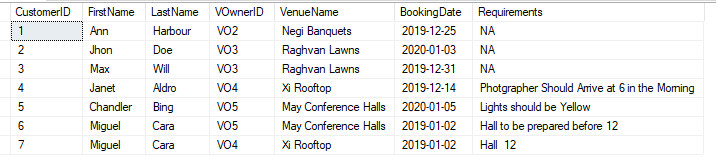
FROM OrderDetails O

LEFT JOIN Venue V

ON V.VenueID=O.VenueID

LEFT JOIN Customer C

ON O.CustomerID=C.CustomerID;



For the owner reference a venue owner can select his/her venue and view the booking date and requirements of an customer.

# What was the average rating given to a Venue by the customer?

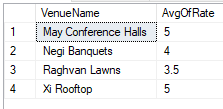
SELECT V.VenueName, AVG(cast(R.Rate as FLOAT)) as AvgOfRate

FROM Rating R

LEFT JOIN Venue V

ON R.VenueID=V.VenueID

GROUP BY V.VenueName;



Average rating of a venue will help the venue owners to improve or keep up with their venues experience.

* **Where is the venue and what date the vendor must reach the venue?**

SELECT A.OrderID,VendorName,VendorID,VenueName,Area,AddressVenue

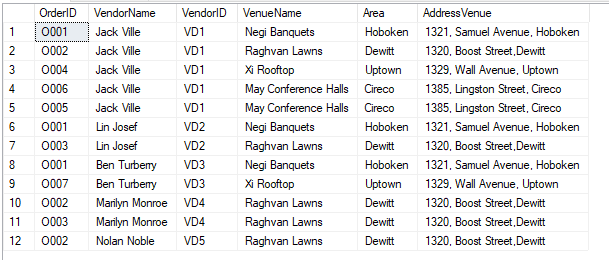
FROM

(SELECT VO.OrderID,V.VendorID,V.VendorName FROM Vendor V LEFT JOIN VendorOrder VO on V.VendorID=VO.VendorID) A

LEFT JOIN

(SELECT o.OrderID,VE.VenueName,VE.Area,VE.AddressVenue FROM VENUE VE LEFT JOIN OrderDetails O on VE.VenueID=O.VenueID ) B

ON A.OrderID=B.OrderID;



This query will help the vendor get the details of the venue where he has to go to provide his/her service.

* **How many total numbers of orders are there for a venue?**

SELECT V.VenueID,V.VenueName,COUNT(O.OrderID) as CountOfOrderID

FROM OrderDetails O

LEFT JOIN Venue V

ON V.VenueID=O.VenueID

GROUP BY v.VenueID,V.VenueName;



Total number of order for a venue can be used by the owners to realize how many bookings did they get from the online venue booking system .

# Interfaces

1. Forms

* Customer Form

A screenshot of a cell phone

Description automatically generated

This form will be used to store in the customer details in our database.

* Venue Form

A screenshot of a cell phone

Description automatically generated

This form will be used to store the venue listings in our database.

* Vendor Form

A screenshot of a cell phone

Description automatically generated

This Form will be used for entering the vendor data in our database.

* Venue Owner Form

A screenshot of a cell phone

Description automatically generated

This form will be used for registering the venue owners on our system.

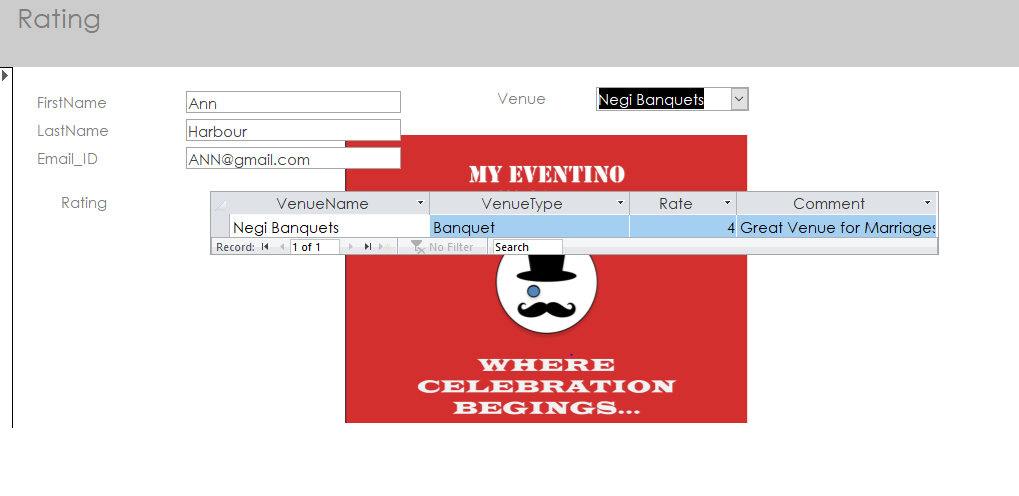
* Customer Details Form

A screenshot of a computer

Description automatically generated

This form will be used as a booking form where a customer can select the venue and vendor as per his preference and book it online.

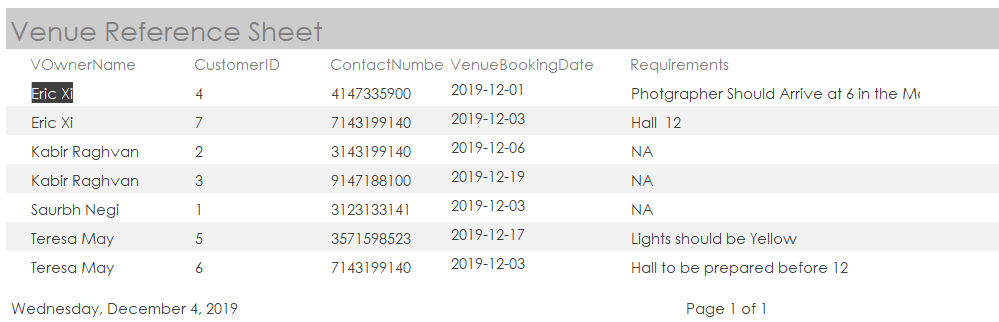
* Rating Form



This form will be used by the customer of a venue to rate the venue as per his experience over there. I’ve also included a combo box, if a person books 2 or more venues from the website in a duration then he can select the venue from the combo box and rate it.

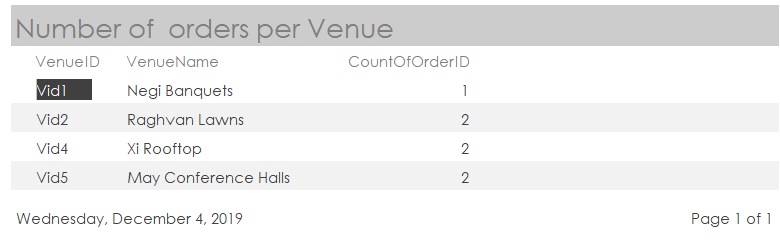
1. Reports

* Venue Reference Report



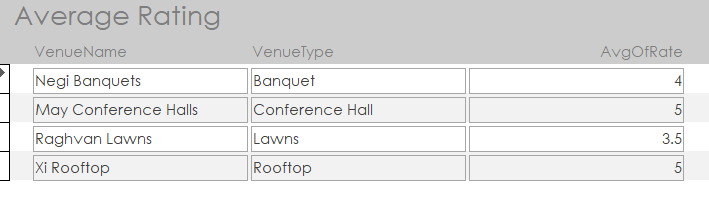
This report can be used by the venue owners to get an Idea of venue booking date and what the requirements are of a customer.

* Orders Per Venue Report



This report tells us that how many orders have been placed for a particular venue.

* Average Rating Report



In this report we get the average ratings as per the ratings given by the customers to a particular venue.

# Trigger

* Description: The Trigger created in this system will help us automatically calculate the OrderTotal column in the OrderDetails table whenever any record is inserted or updated in the OrderDetails table.

OrderTotal = Rate (Venue) + Rate (Vendors)

* Trigger Code:

CREATE TRIGGER UpdateOrderDetails

ON OrderDetails

FOR INSERT,UPDATE

AS

IF @@ROWCOUNT >= 1

BEGIN

UPDATE OrderDetails

SET OrderTotal = OrderCount.rate

FROM

(

select c.CustomerID,

--v.venueID,ve.VendorID

(max(cast(v.Rate as numeric)) + sum(cast(ve.rate as numeric))) as rate

from OrderDetails a,Customer c,Venue v, VendorOrder vo, Vendor ve

where a.CustomerID = c.CustomerID

and a.VenueID = v.VenueID

and a.OrderID = vo.OrderID

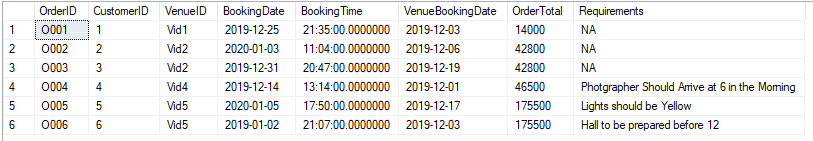
and vo.VendorID = ve.VendorID

group by c.customerID) as OrderCount

WHERE OrderDetails.CustomerID=OrderCount.CustomerID

END;

* Trigger Execution:



Before Insert Statement

INSERT INTO Customer VALUES ('7','Miguel','Cara','7143199140','MIGUEL@gmail.com','Rochester','New York','1/2/2020','95000');

INSERT INTO OrderDetails VALUES

('O007','7','Vid4','1/2/2019','21:07:00','12/3/2019',' ','Hall 12')

INSERT INTO VendorOrder VALUES ('011','VD3','O007');

# 

After Execution of Insert Statements