

Project Report

On

RESORT MANAGEMENT SYSTEM

Developed by

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DHARMSINH DESAI UNIVERSITY**NADIAD - 387001****1. CERTIFICATE**

This is to certify that the project entitled '**RESORT MANAGEMENT SYSTEM**'

is a bonafide report of the work carried out by

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of the Department of Information Technology, Semester-V, under the guidance and supervision for the subject Database Management System. They were involved in Project training during the academic year 2020-2021.

Prof. Mukesh M. Goswami

(Project Guide)

Department of Information Technology,

Faculty of Technology,

Dharmsinh Desai University, Nadiad

Date:

Prof. Vipul Dabhi(check)

Head, Department of Information Technology,

Faculty of Technology,

Dharmsinh Desai University, Nadiad

Date:

2. ACKNOWLEDGMENT

On the very outset of this report, we would like to extend our sincere & heartfelt obligations towards all the personages who have directly or indirectly helped in this endeavor. Without their active guidance, help, cooperation & encouragement, we wouldn't have made the headway in the project.

We are ineffably indebted to our instructor Mr. Mukesh M. Goswami for his guidance, encouragement and conscientiousness to accomplish this project. We are extremely thankful for his support.

We would also like to express our gratitude to our Head, Mr. Vipul Dabhi along with Dharmsinh Desai University for giving us this opportunity.

Last but not least, we would also like to acknowledge with a deep sense of reverence, our gratitude towards our family members who have always supported us morally.

Any omission in this brief acknowledgement does not mean lack of gratitude.

Thank You,
Kansagara Mitsu Nitin
Karukala Tejaswi Reddy

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3. SYSTEM OVERVIEW

3.1. Current System

- This is a Resort Management System.
- The main objective of this Resort Management System is to develop and implement a reservation and management system for resort to help the management in making reservations and other transactions needed to be done.
- The customer selects the date and time of the service that they want to use. Also, they get acknowledgement as and when they book or cancel any service.
- The customer can avail different offers available during the time of festivals, centre anniversary or any other specific time of the year.
- The customer can also give their valuable feedback and suggestions without revealing their identity(for confidentiality purpose) so that we can improve our system as per their feedback.
- The main operations of the system are check-in, check-out and reservation management.
- The system will make the employee's job easier and faster with error-free transactions for the good of the business.
- Actors in this proposed system are Admin(receptionist) and the end-users.

3.2. SPECIFIC OBJECTIVES OF PROPOSED SYSTEM

- It accepts reservations.
The system is capable of storing information for reservations on specified dates and times depending on the customer's availability.
- There is a feature that will identify room availability.
The system will show the occupied and unoccupied rooms.
- This system will automatically calculate bills.
Upon the customer's checkout the system automatically calculates the bills depending on the length of the customer's stay. The admin can also add bills for food and extra persons and damages.
- This system will check-in guests.
The proposed system is capable of checking in reserved and newly arrived guests.
- This system will also check-out guests.
The system can check-out guests that calculate their bills depending on the length of their stay. It will also calculate the extra charges for food or services being offered.

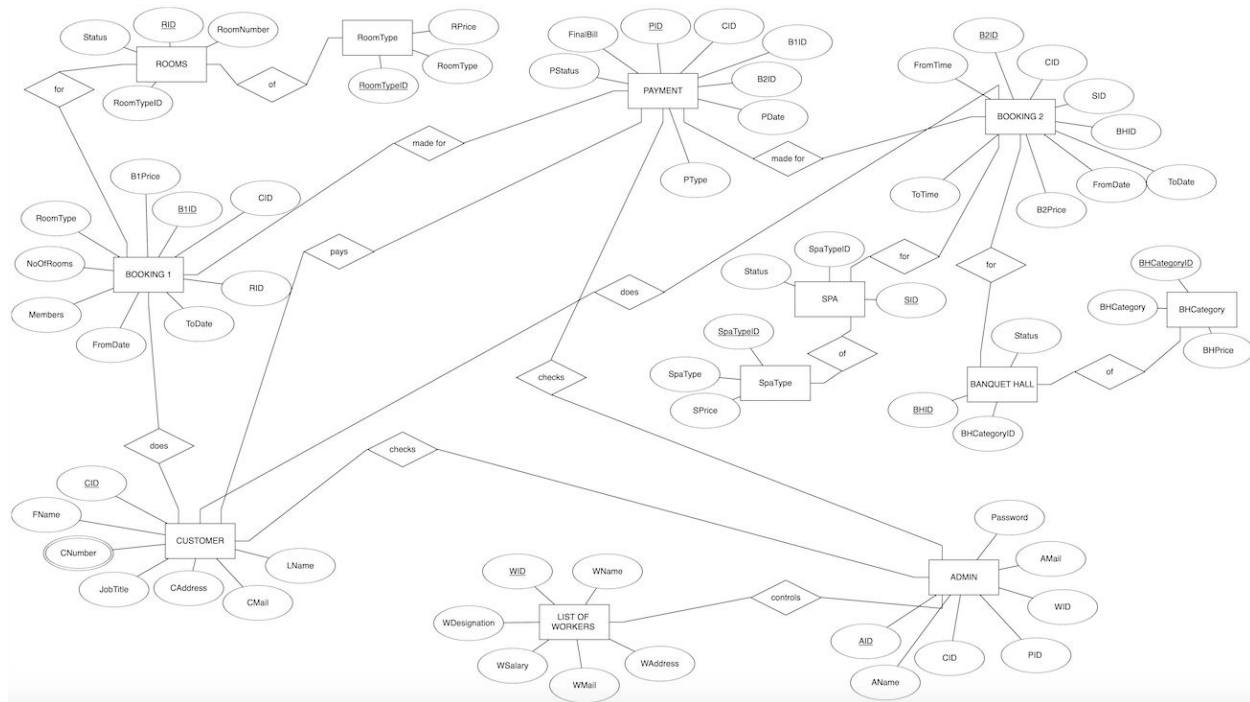
3.3. ADVANTAGES OF THIS SYSTEM

- Saves time for customers in quickly reserving all the facilities of the resort online.
- In case of on the spot registration, offline bookings can also be done.
- The customer will get notified when the request for the service is placed.
- The customer can pay through their credit card or cash.
- The customers will also get a view about all the services that can be availed.

3.4. DIS-ADVANTAGES OF THIS SYSTEM

- Lack of security.
- Chances of human error.
- Not all features can be accessed by end users.
- Trust issues of admin and end users.
- Requires internet access.
- Failure of machine or servers.
- Heavy traffic leads to failure or long wait issues.

4. ER DIAGRAM FOR RESORT MANAGEMENT SYSTEM



4.1 LIST OF ENTITIES

1. CUSTOMER
2. ADMIN
3. BOOKING 1
4. BOOKING 2
5. ROOMS
6. ROOM TYPE
7. SPA
8. SPA TYPE
9. BANQUET HALL
10. BH CATEGORY
11. LIST OF WORKERS
12. PAYMENT

5. DATA DICTIONARY

CUSTOMER

Column	Type	Null	Description	Link to
CID	Auto increment	Not null	Primary key	
FName	Varchar(20)	Not null		
LName	Varchar(20)	Not null		
CMail	Varchar(40)	Not null		
CAddress	Varchar(45)	Not null		
JobTitle	Varchar(10)	Not null		
CNumber	Decimal(10,0)	Not null	Multivalued	

ADMIN

Column	Type	Null	Description	Link to
AID	Auto increment	Not null	Primary key	
AName	Varchar(45)	Not null		
Password	Varchar(20)	Not null		
AMail	Varchar(40)	Not null		
CID	Int		Foreign key	CUSTOMER
PID	Int		Foreign key	PAYMENT
WID	Int		Foreign key	LIST OF WORKERS

BOOKING 1

Column	Type	Null	Description	Link to
B1ID	Auto increment	Not null	Primary key	
CID	Int	Not null	Foreign key	CUSTOMER
RID	Int	Not null	Foreign key	ROOMS
FromDate	Date	Not null		
ToDate	Date	Not null		
Members	Int	Not null		
NoOfRooms	Int	Not null		
B1Price	Decimal(10,2)	Not null		

BOOKING 2

Column	Type	Null	Description	Link to
B2ID	Auto increment	Not null	Primary key	
CID	Int	Not null	Foreign key	CUSTOMER
SID	Int		Foreign key	SPA
BHID	Int		Foreign key	BANQUET HALL
FromDate	Date	Not null		
ToDate	Date	Not null		
FromTime	Time	Not null		
ToTime	Time	Not null		
B2Price	Decimal(10,2)	Not null		

LIST OF WORKERS

Column	Type	Null	Description	Link to
WID	Auto increment	Not null	Primary key	
WName	Varchar(30)	Not null		
WAddress	Varchar(40)	Not null		
WMail	Varchar(40)	Not null		
WSalary	Decimal	Not null		
WDesignation	Varchar(20)	Not null		

ROOM TYPE

Column	Type	Null	Description	Link to
RoomTypeID	Char	Not null	Primary key	
RoomType	Varchar(10)	Not null		
RPrice	Decimal	Not null		

ROOMS

Column	Type	Null	Description	Link to
RID	Auto increment	Not null	Primary key	
RoomTypeID	Char	Not null	Foreign key	ROOM TYPE
RoomNumber	Int	Not null		
Status	Tiny Int(1)	Not null		

BH CATEGORY

Column	Type	Null	Description	Link to
BHCategoryID	Char	Not null	Primary key	
BHCategory	varchar(20)	Not null		
BHPrice	Decimal(10,2)	Not null		

BANQUET HALL

Column	Type	Null	Description	Link to
BHID	Auto increment	Not null	Primary key	
BHCategoryID	Char	Not null	Foreign Key	BH CATEGORY
Status	TinyInt(1)	Not null		

SPA TYPE

Column	Type	Null	Description	Link to
SpaTypeID	Char	Not null	Primary key	
SpaType	Varchar(10)	Not null		
SPrice	Decimal(10,2)	Not null		

SPA

Column	Type	Null	Description	Link to
SID	Auto increment	Not null	Primary key	
SpaTypeID	Char	Not null	Foreign key	SPA TYPE
Status	Tiny Int(1)	Not null		

PAYMENT

Column	Type	Null	Description	Link to
PID	Auto increment	Not null	Primary key	
CID	Int	Not null	Foreign key	CUSTOMER
B1ID	Int		Foreign key	BOOKING 1
B2ID	Int		Foreign key	BOOKING 2
PDate	Date	Not null		
PType	Varchar(10)	Not null		
PStatus	Tiny Int(1)	Not null		
FinalBill	Decimal(10,2)	Not null		

7. DATABASE IMPLEMENTATION

7.1 CREATING TABLE

1. Customer

```
CREATE TABLE `CUSTOMER` (
  `CID` INT NOT NULL AUTO_INCREMENT,
  `FName` VARCHAR(20) NOT NULL,
  `LName` VARCHAR(20) NOT NULL,
  `CMail` VARCHAR(40) NOT NULL,
  `CAddress` VARCHAR(45) NOT NULL,
  `JobTitle` VARCHAR(10) NOT NULL,
  `CNumber` DECIMAL(10,0) NOT NULL,
  PRIMARY KEY (`CID`)
);
```

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
CID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
FName	VARCHAR(20)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LName	VARCHAR(20)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CMail	VARCHAR(40)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CAddress	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
JobTitle	VARCHAR(10)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CNumber	DECIMAL(10,0)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2. Admin

```
CREATE TABLE `ADMIN` (
  `AID` INT NOT NULL AUTO_INCREMENT,
  `CID` INT NULL,
  `PID` INT NULL,
  `WID` INT NULL,
  `AName` VARCHAR(45) NOT NULL,
  `Password` VARCHAR(20) NOT NULL,
  `AMail` VARCHAR(40) NOT NULL,
  PRIMARY KEY (`AID`)
);
```

);

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
AID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CID	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
PID	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
WID	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
AName	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Password	VARCHAR(20)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
AMail	VARCHAR(40)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3. Booking1

```
CREATE TABLE 'BOOKING 1' (
    'B1ID' INT NOT NULL AUTO_INCREMENT,
    'CID' INT NOT NULL,
    'RID' int NOT NULL,
    'FromDate' DATE NOT NULL,
    'ToDate' DATE NOT NULL,
    'Members' INT NOT NULL,
    'NoOfRooms' INT NOT NULL,
    'B1Price' DECIMAL(10,2) NOT NULL, PRIMARY KEY ('B1ID')
);
```

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
B1ID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CID	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RID	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FromDate	DATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ToDate	DATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Members	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NoOfRooms	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B1Price	DECIMAL(10,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Booking 2

```
CREATE TABLE `BOOKING 2` (
  `B2ID` INT NOT NULL AUTO_INCREMENT,
  `CID` INT REFERENCES `CUSTOMER`(`CID`),
  `BHID` INT, `SID` ,
  `FromDate` DATE NOT NULL,
  `ToDate` DATE NOT NULL,
  `FromTime` TIME NOT NULL,
  `ToTime` TIME NOT NULL,
  `B2Price` DECIMAL(10,2) NOT NULL,
  PRIMARY KEY (`B2ID`)
);
```

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
B2ID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CID	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BHID	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
SID	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
FromDate	DATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ToDate	DATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FromTime	TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ToTime	TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B2Price	DECIMAL(10,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

5. List of Workers

```
CREATE TABLE `LIST OF WORKERS` (
  `WID` INT NOT NULL AUTO_INCREMENT,
  `WName` VARCHAR(45) NOT NULL,
  `WAddress` VARCHAR(45) NOT NULL,
  `WMail` VARCHAR(45) NOT NULL,
  `WSalary` DECIMAL(10,2) NOT NULL,
  `WDesignation` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`WID`)
);
```

Name: LIST OF WORKERS Schema: MyDatabase

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
WID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WName	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WAddress	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WMail	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WSalary	DECIMAL(10,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WDesignation	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

6. Room Type

```
CREATE TABLE 'ROOM TYPE' (
    'RoomTypeID' CHAR NOT NULL,
    'RoomType' VARCHAR() NOT NULL,
    'RPrice' DECIMAL(10,2) NOT NULL,
    PRIMARY KEY ('RoomTypeID')
);
```

Name: ROOM TYPE Schema: MyDatabase

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
RoomTypeID	CHAR(1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RoomType	VARCHAR(40)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RPrice	DECIMAL(10,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

7. Rooms

```
CREATE TABLE 'ROOMS' (
    'RID' INT NOT NULL AUTO_INCREMENT,
```

```

`RoomTypeID` CHAR NOT NULL,
`RoomNumber` INT NOT NULL,
`Status` TINYINT(1) NOT NULL,
PRIMARY KEY (`RID`)

```

```
);
```

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
RID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
RoomTypeID	CHAR(1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RoomNumber	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Status	TINYINT(1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

8. Banquet Hall Category

```

CREATE TABLE `BH Category` (
  `BHCategoryID` CHAR NOT NULL,
  `BHCategory` VARCHAR(20) NOT NULL,
  `BHPrice` DECIMAL(10,2) NOT NULL,
  PRIMARY KEY (`BHCategoryID`)

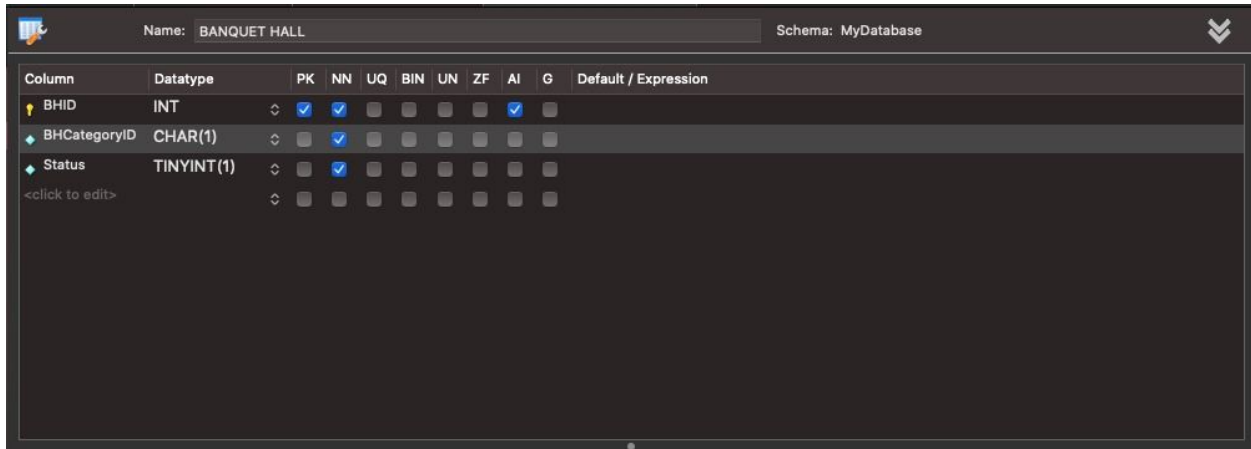
```

```
);
```

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
BHCategoryID	CHAR(1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BHCategory	VARCHAR(20)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BHPrice	DECIMAL(10,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

9. Banquet Hall

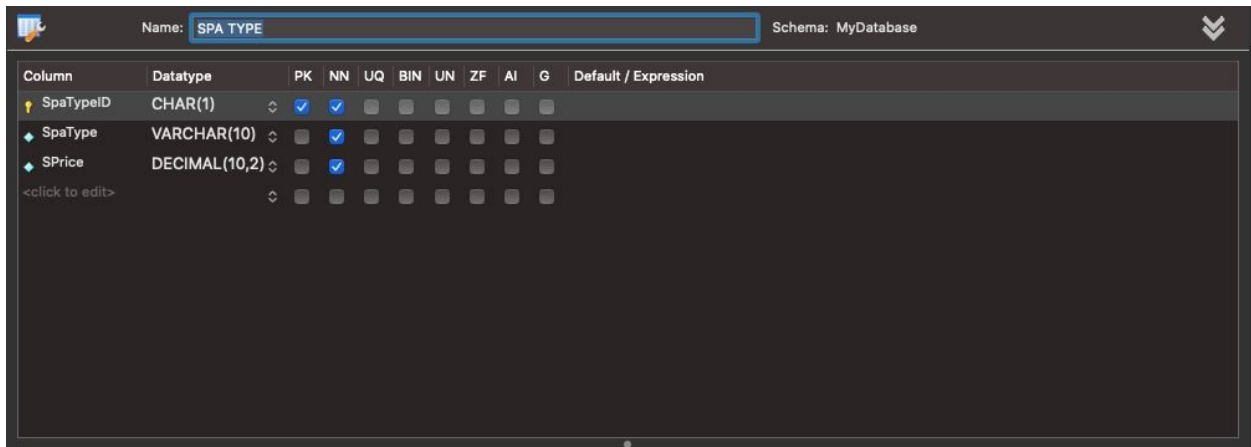
```
CREATE TABLE `BANQUET HALL` (
  `BHID` INT NOT NULL AUTO_INCREMENT,
  `BHCategoryID` CHAR NOT NULL,
  `Status` TINYINT(1) NOT NULL, PRIMARY KEY (`BHID`)
);
```



Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
BHID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
BHCategoryID	CHAR(1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Status	TINYINT(1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

10. Spa Type

```
CREATE TABLE `SPA TYPE` (
  `SpaTypeID` CHAR NOT NULL,
  `SpaType` VARCHAR(10) NOT NULL,
  `SPrice` DECIMAL(10,2) NOT NULL, PRIMARY KEY (`SpaTypeID`)
);
```



Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
SpaTypeID	CHAR(1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SpaType	VARCHAR(10)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SPrice	DECIMAL(10,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

11.Spa

```
CREATE TABLE `SPA` (
  `SID` INT NOT NULL AUTO_INCREMENT,
  `SpaTypeID` CHAR NOT NULL,
  `Status` TINYINT(1) NOT NULL, PRIMARY KEY (`SID`)
);
```

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
SID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SpaTypeID	CHAR(1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Status	TINYINT(1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

12. Payment

```
CREATE TABLE `PAYMENT` (
  `PID` INT NOT NULL AUTO_INCREMENT,
  `CID` INT NOT NULL,
  `B1ID` INT NULL,
  `B2ID` INT NULL,
  `PDate` DATE NOT NULL,
  `PType` VARCHAR(10) NOT NULL,
  `PStatus` TINYINT(1) NOT NULL,
  `FinalBill` DECIMAL(10,2) NOT NULL, PRIMARY KEY (`PID`)
);
```

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
PID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CID	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B1ID	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
B2ID	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
PDate	DATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PType	VARCHAR(10)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PStatus	TINYINT(1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FinalBill	DECIMAL(10,2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

7.2 INSERTING VALUES IN TABLES

1. CUSTOMER

```
INSERT INTO `CUSTOMER` (`CID`, `FName`, `LName`, `CMail`, `CAddress`,
`JobTitle`, `CNumber`) VALUES ('1', 'Ashish', 'Patel', 'apatel@gmail.com', '201,Palitirth
Flats,Subhanpura,Vadodara', 'Manager', '982577830');
```

```
INSERT INTO `CUSTOMER` (`CID`, `FName`, `LName`, `CMail`, `CAddress`,
`JobTitle`, `CNumber`) VALUES ('2', 'Ramesh', 'Khanna', 'rkhanha@gmail.com', '1
Madhuban society , Anand', 'Manager', '9854983222');
```

```
INSERT INTO `CUSTOMER` (`CID`, `FName`, `LName`, `CMail`, `CAddress`,
`JobTitle`, `CNumber`) VALUES ('3', 'Meera', 'Saxena', 'meera123@gmail.com',
'23-Brindavan Apt , Panvel,Mumbai', 'Designer', '9835566270');
```

```
INSERT INTO `CUSTOMER` (`CID`, `FName`, `LName`, `CMail`, `CAddress`,
`JobTitle`, `CNumber`) VALUES ('4', 'John', 'Mathews', 'mathewsj@gmail.com',
'05-Dhiraj Apt ,Pune', 'Analyst', '8935577829');
```

```
INSERT INTO `CUSTOMER` (`CID`, `FName`, `LName`, `CMail`, `CAddress`,
`JobTitle`, `CNumber`) VALUES ('5', 'Varun', 'Sandesh', 'vsandesh@gmail.com', '27
Jeevan society ,Hyderabad', 'Teacher', '6763322108');
```

```
INSERT INTO `CUSTOMER` (`CID`, `FName`, `LName`, `CMail`, `CAddress`,
`JobTitle`, `CNumber`) VALUES ('6', 'Ayush', 'Miharia', 'aymiharia@gmail.com', '83
Cole Apt , Andheri ,Mumbai', 'Doctor', '9362201560');
```

	CID	FName	LNa...	CMail	CAddress	JobTitle	CNumber
	1	Ashish	Patel	apatel@gmail.com	201,Palitirth Flats,Subhanpura,Vadodara	Manager	982577830
	2	Ramesh	Kha...	rkhanha@gmail.com	1 Madhuban society , Anand	Manager	9854983222
	3	Meera	Sax...	meera123@gmail.com	23-Brindavan Apt , Panvel,Mumbai	Designer	9835566270
	4	John	Mat...	mathewsj@gmail.com	05-Dhiraj Apt ,Pune	Analyst	8935577829
	5	Varun	San...	vsandesh@gmail.com	27 Jeevan society ,Hyderabad	Teacher	6763322108
▶	6	Ayush	Mih...	aymiharia@gmail.com	83 Cole Apt , Andheri ,Mumbai	Doctor	9362201560

2. LIST OF WORKERS

```
INSERT INTO `LIST OF WORKERS` (`WID`, `WName`, `WAddress`, `WMail`,
`WSalary`, `WDesignation`) VALUES ('1', 'Monal Sharma', '29 Twinkle Appt ,Anand',
'msharma@gmail.com', '20000', 'Cleaning Staff');
```

```
INSERT INTO `LIST OF WORKERS` (`WID`, `WName`, `WAddress`, `WMail`,
`WSalary`, `WDesignation`) VALUES ('2', 'Abhijeet Mathur', '3 Madhur
society,Ahmedabad', 'abhim@gmail.com', '25000', 'Receptionist');
```

```
INSERT INTO `LIST OF WORKERS` (`WID`, `WName`, `WAddress`, `WMail`,
`WSalary`, `WDesignation`) VALUES ('3', 'Mohan Lal', '21 Nyay Appt ,Anand',
'mlal@gmail.com', '15000', 'Peon');
```

```
INSERT INTO `LIST OF WORKERS` (`WID`, `WName`, `WAddress`, `WMail`,
`WSalary`, `WDesignation`) VALUES ('4', 'Shefali Shiva', '90 Blumoon Bunglows ,
Vadodara', 'Sshiva@gmail.com', '40000', 'Manager');
```

```
INSERT INTO `LIST OF WORKERS` (`WID`, `WName`, `WAddress`, `WMail`,
`WSalary`, `WDesignation`) VALUES ('5', 'Ranbir Rathod', '1 Lotus Appt , Ahmedabad',
'rrathod@gmail.com', '35000', 'Head Cook');
```

WID	WName	WAddress	WMail	WSalary	WDesignation
1	Monal Sharma	29 Twinkle Appt ,Anand	msharma@gmail.com	20000.00	Cleaning Staff
2	Abhijeet Mathur	3 Madhur society,Ahmedabad	abhim@gmail.com	25000.00	Receptionist
3	Mohan Lal	21 Nyay Appt ,Anand	mlal@gmail.com	15000.00	Peon
4	Shefali Shiva	90 Blumoon Bunglows , Vadodara	Sshiva@gmail.com	40000.00	Manager
5	Ranbir Rathod	1 Lotus Appt , Ahmedabad	rrathod@gmail.com	35000.00	Head Cook

3. Room Type

```
INSERT INTO `ROOM TYPE` (`RoomTypeID`, `RoomType`, `RPrice`) VALUES ('A',  
'Family room', '5000');
```

```
INSERT INTO `ROOM TYPE` (`RoomTypeID`, `RoomType`, `RPrice`) VALUES ('B',  
'Honeymoon Suite', '7000');
```

```
INSERT INTO `ROOM TYPE` (`RoomTypeID`, `RoomType`, `RPrice`) VALUES ('C',  
'Master Suit', '6000');
```

RoomTypeID	RoomType	RPrice
A	Family room	5000.00
B	Honeymoon Suite	7000.00
C	Master Suit	6000.00

4. Rooms

```
INSERT INTO `ROOMS` (`RID`, `RoomTypeID`, `RoomNumber`, `Status`) VALUES  
(1, 'A', '105', '0');
```

```
INSERT INTO `ROOMS` (`RID`, `RoomTypeID`, `RoomNumber`, `Status`) VALUES  
(2, 'A', '103', '1');
```

```
INSERT INTO `ROOMS` (`RID`, `RoomTypeID`, `RoomNumber`, `Status`) VALUES  
(3, 'B', '306', '1');
```

```
INSERT INTO `ROOMS` (`RID`, `RoomTypeID`, `RoomNumber`, `Status`) VALUES  
(4, 'C', '401', '1');
```



```
INSERT INTO `ROOMS` (`RID`, `RoomTypeID`, `RoomNumber`, `Status`) VALUES
('5', 'B', '307', '0');
```

RID	RoomTypeID	RoomNumber	Status
1	A	105	0
2	A	103	1
3	B	306	1
4	C	401	1
5	B	307	0

5. Banquet Hall Category

```
INSERT INTO `BH Category` (`BHCATEGORYID`, `BHCATEGORY`, `BHPRICE`) VALUES
('A', '< 100', '20000');
```

```
INSERT INTO `BH Category` (`BHCATEGORYID`, `BHCATEGORY`, `BHPRICE`) VALUES
('B', '< 250', '35000');
```

BHCATEGORYID	BHCATEGORY	BHPRICE
A	< 100	20000.00
B	< 250	35000.00

6. Banquet Hall

```
INSERT INTO `BANQUET HALL` (`BHID`, `BHCategoryID`, `Status`) VALUES ('1', 'A', '1');
```

```
INSERT INTO `BANQUET HALL` (`BHID`, `BHCategoryID`, `Status`) VALUES ('2', 'A', '1');
```

```
INSERT INTO `BANQUET HALL` (`BHID`, `BHCategoryID`, `Status`) VALUES ('3', 'B', '1');
```

```
INSERT INTO `BANQUET HALL` (`BHID`, `BHCategoryID`, `Status`) VALUES ('4', 'A', '1');
```

```
INSERT INTO `BANQUET HALL` (`BHID`, `BHCategoryID`, `Status`) VALUES ('5', 'B', '1');
```

BHID	BHCategoryID	Status
1	A	1
2	A	1
3	B	1
4	A	1
5	B	1

7. SPA TYPE

```
INSERT INTO `SPA TYPE` (`SpaTypeID`, `SpaType`, `SPrice`) VALUES ('A', 'Pamper Spa', '2500');
```

```
INSERT INTO `SPA TYPE` (`SpaTypeID`, `SpaType`, `SPrice`) VALUES ('B', 'Medi Spa', '3500');
```

```
INSERT INTO `SPA TYPE` (`SpaTypeID`, `SpaType`, `SPrice`) VALUES ('C', 'Day Spa', '2000');
```

```
INSERT INTO `SPA TYPE` (`SpaTypeID`, `SpaType`, `SPrice`) VALUES ('D', 'Stay Spa', '1500');
```

SpaTypeID	SpaType	SPrice
A	Pamper Spa	2500.00
B	Medi Spa	3500.00
C	Day Spa	2000.00
D	Stay Spa	1500.00

8. SPA

```
INSERT INTO `SPA` (`SID`, `SpaTypeID`, `Status`) VALUES ('1', 'A', '1');
```

```
INSERT INTO `SPA` (`SID`, `SpaTypeID`, `Status`) VALUES ('2', 'C', '1');
```

```
INSERT INTO `SPA` (`SID`, `SpaTypeID`, `Status`) VALUES ('3', 'D', '1');
```

```
INSERT INTO `SPA` (`SID`, `SpaTypeID`, `Status`) VALUES ('4', 'B', '1');
```

```
INSERT INTO `SPA` (`SID`, `SpaTypeID`, `Status`) VALUES ('5', 'B', '0')
```

SID	SpaTypeID	Status
1	A	1
2	C	1
3	D	1
4	B	1
5	B	0

9. BOOKING1

```
INSERT INTO `BOOKING 1` (`B1ID`, `CID`, `RID`, `FromDate`, `ToDate`,  
`Members`, `NoOfRooms`, `B1Price`) VALUES ('1', '1', '1', '2020-11-20', '2020-11-22',  
'3', '1', '10000');
```

```
INSERT INTO `BOOKING 1` (`B1ID`, `CID`, `RID`, `FromDate`, `ToDate`,  
`Members`, `NoOfRooms`, `B1Price`) VALUES ('2', '2', '2', '2020-12-15', '2020-12-16',  
'4', '1', '5000');
```

```
INSERT INTO `BOOKING 1` (`B1ID`, `CID`, `RID`, `FromDate`, `ToDate`,  
`Members`, `NoOfRooms`, `B1Price`) VALUES ('3', '3', '3', '2021-01-01', '2021-01-03',  
'2', '1', '14000');
```

```
INSERT INTO `BOOKING 1` (`B1ID`, `CID`, `RID`, `FromDate`, `ToDate`,  
`Members`, `NoOfRooms`, `B1Price`) VALUES ('4', '4', '4', '2020-12-25', '2020-12-26',  
'5', '2', '12000');
```

```
INSERT INTO `BOOKING 1` (`B1ID`, `CID`, `RID`, `FromDate`, `ToDate`,  
`Members`, `NoOfRooms`, `B1Price`) VALUES ('5', '5', '5', '2021-02-14', '2021-02-16',  
'4', '2', '28000');
```

B1ID	CID	RID	FromDate	ToDate	Members	NoOfRooms	B1Price
1	1	1	2020-11-20	2020-11-22	3	1	10000.00
2	2	2	2020-12-15	2020-12-16	4	1	5000.00
3	3	3	2021-01-01	2021-01-03	2	1	14000.00
4	4	4	2020-12-25	2020-12-26	5	2	12000.00
5	5	5	2021-02-14	2021-02-16	4	2	28000.00

10.Booking2

```
INSERT INTO `BOOKING 2` (`B2ID`, `CID`, `BHID`, `SID`, `FromDate`, `ToDate`,
`FromTime`, `ToTime`, `B2Price`) VALUES ('1', '1', '1', '1', '2020-11-20', '2020-11-20',
'18:00:00', '17:00:00', '22500');
```

```
INSERT INTO `BOOKING 2` (`B2ID`, `CID`, `BHID`, `SID`, `FromDate`, `ToDate`,
`FromTime`, `ToTime`, `B2Price`) VALUES ('2', '2', '1', '2', '2020-12-15', '2020-12-15',
'14:00:00', '15:00:00', '22000');
```

```
INSERT INTO `BOOKING 2` (`B2ID`, `CID`, `BHID`, `SID`, `FromDate`, `ToDate`,
`FromTime`, `ToTime`, `B2Price`) VALUES ('3', '3', '3', '3', '2021-01-02', '2021-01-02',
'20:00:00', '21:00:00', '36500');
```

```
INSERT INTO `BOOKING 2` (`B2ID`, `CID`, `BHID`, `SID`, `FromDate`, `ToDate`,
`FromTime`, `ToTime`, `B2Price`) VALUES ('4', '5', '4', '3', '2021-02-14', '2021-02-16',
'12:00:00', '10:00:00', '41500');
```

```
INSERT INTO `BOOKING 2` (`B2ID`, `CID`, `BHID`, `SID`, `FromDate`, `ToDate`,
`FromTime`, `ToTime`, `B2Price`) VALUES ('5', '4', '5', '5', '2020-12-25', '2020-12-26',
'18:00:00', '19:00:00', '38500');
```

```
INSERT INTO `BOOKING 2` (`B2ID`, `CID`, `SID`, `FromDate`, `ToDate`,
`FromTime`, `ToTime`, `B2Price`) VALUES ('6', '5', '5', '2021-01-12', '2021-01-12',
'12:00:00', '13:00:00', '3500');
```

B2ID	CID	BHID	SID	FromDate	ToDate	FromTime	ToTime	B2Price
1	1	1	1	2020-11-20	2020-11-20	18:00:00	17:00:00	22500.00
2	2	1	2	2020-12-15	2020-12-15	14:00:00	15:00:00	22000.00
3	3	3	3	2021-01-02	2021-01-02	20:00:00	21:00:00	36500.00
4	5	4	3	2021-02-14	2021-02-16	12:00:00	10:00:00	41500.00
5	4	5	5	2020-12-25	2020-12-26	18:00:00	19:00:00	38500.00
6	5	NULL	5	2021-01-12	2021-01-12	12:00:00	13:00:00	3500.00

11. Payment

```
INSERT INTO `PAYMENT` (`PID`, `CID`, `B1ID`, `PDate`, `PType`, `PStatus`, `FinalBill`)
VALUES ('1', '1', '1', '2020-11-10', 'Cash', '0', '10000');
```

```
INSERT INTO `PAYMENT` (`PID`, `CID`, `B2ID`, `PDate`, `PType`, `PStatus`, `FinalBill`)
VALUES ('2', '2', '1', '2020-11-21', 'Cash', '1', '22500');
```

```
INSERT INTO `PAYMENT` (`PID`, `CID`, `B1ID`, `B2ID`, `PDate`, `PType`, `PStatus`,
`FinalBill`) VALUES ('3', '3', '2', '2', '2020-12-16', 'Cash', '1', '27000');
```

```
INSERT INTO `PAYMENT` (`PID`, `CID`, `B1ID`, `B2ID`, `PDate`, `PType`, `PStatus`,
`FinalBill`) VALUES ('4', '4', '3', '3', '2021-01-03', 'Credit', '0', '50500');
```

```
INSERT INTO `PAYMENT` (`PID`, `CID`, `B1ID`, `PDate`, `PType`, `PStatus`, `FinalBill`)
VALUES ('5', '5', '5', '2021-02-16', 'Cash', '1', '28000');
```

PID	CID	B1ID	B2ID	PDate	PType	PStatus	FinalBill
1	1	1	NULL	2020-11-10	Cash	0	10000.00
2	2	NULL	1	2020-11-21	Cash	1	22500.00
3	3	2	2	2020-12-16	Cash	1	27000.00
4	4	3	3	2021-01-03	Credit	0	50500.00
5	5	5	NULL	2021-02-16	Cash	1	28000.00

12. Admin

```
INSERT INTO `ADMIN` (`AID`, `AName`, `Password`, `AMail`) VALUES ('1', 'Mitsu', 'mitsu@1234', 'mitsuk@gmail.com');
```

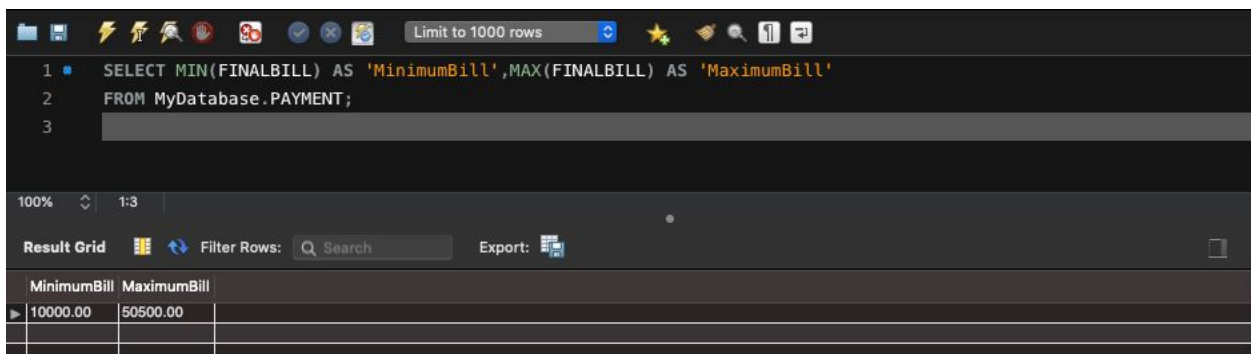
```
INSERT INTO `ADMIN` (`AID`, `AName`, `Password`, `AMail`) VALUES ('2', 'Tejaswi', 'tejaswi@12', 'tejaswik@gmail.com');
```

AID	CID	PID	WID	AName	Password	AMail
1	NULL	NULL	NULL	Mitsu	mitsu@1234	mitsuk@gmail.com
2	NULL	NULL	NULL	Tejaswi	tejaswi@12	tejaswik@gmail.com

7.3 QUERIES

1. Determine the **MINIMUM** and the **MAXIMUM** cost of service from **PAYMENT**.

```
SELECT MIN(FINALBILL) AS 'MinimumBill',MAX(FINALBILL) AS 'MaximumBill'  
FROM MyDatabase.PAYMENT;
```



The screenshot shows a database query tool interface. The query editor contains the following SQL statement:

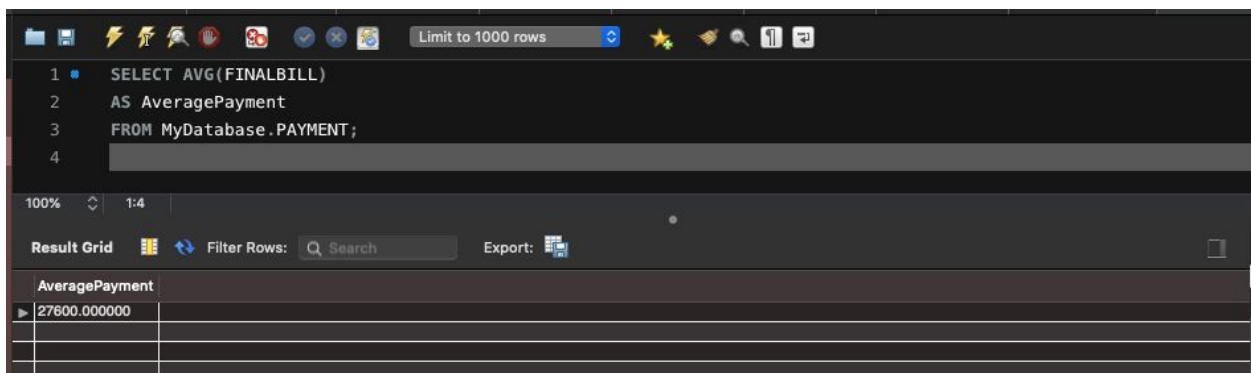
```
1 SELECT MIN(FINALBILL) AS 'MinimumBill',MAX(FINALBILL) AS 'MaximumBill'  
2 FROM MyDatabase.PAYMENT;  
3
```

Below the query editor, the 'Result Grid' is displayed, showing the results of the query. The grid has two columns: 'MinimumBill' and 'MaximumBill'. The first row shows the values 10000.00 and 50500.00 respectively.

MinimumBill	MaximumBill
10000.00	50500.00

2. Display the **AVERAGE** value of the FinalBill from **PAYMENT** table.

```
SELECT AVG(FINALBILL)  
AS AveragePayment  
FROM MyDatabase.PAYMENT;
```



The screenshot shows a database query tool interface. The query editor contains the following SQL statement:

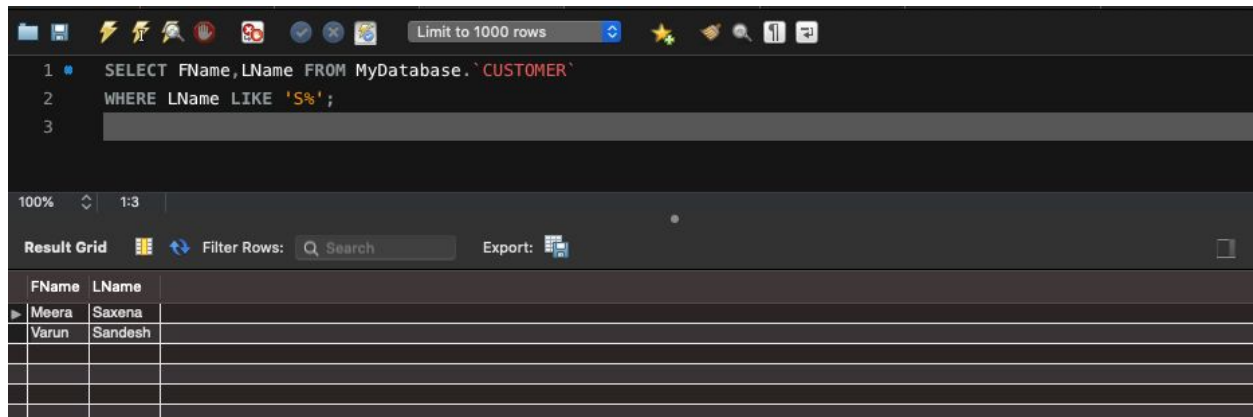
```
1 SELECT AVG(FINALBILL)  
2 AS AveragePayment  
3 FROM MyDatabase.PAYMENT;  
4
```

Below the query editor, the 'Result Grid' is displayed, showing the results of the query. The grid has one column: 'AveragePayment'. The first row shows the value 27600.000000.

AveragePayment
27600.000000

3. Display the first and last names of CUSTOMERS where last name starts with S.

```
SELECT FName,LName FROM MyDatabase.`CUSTOMER`  
WHERE LName LIKE 'S%';
```

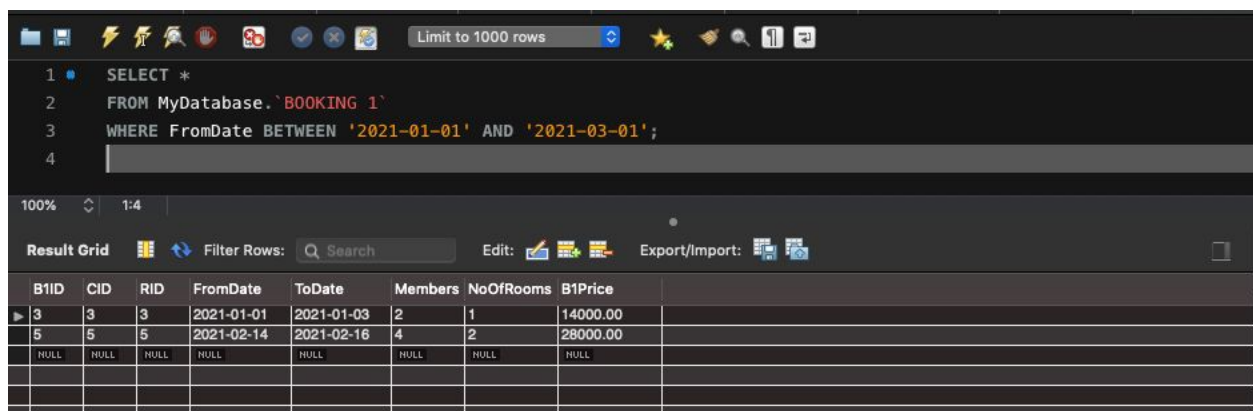


The screenshot shows a database query tool interface. The SQL query is entered in the top panel: `SELECT FName,LName FROM MyDatabase.`CUSTOMER` WHERE LName LIKE 'S%';`. The results are displayed in a table below the query editor.

FName	LName
Meera	Saxena
Varun	Sandesh

4. Display the whole record from BOOKING 1 table where the FromDate is between 2021-01-01 and 2021-03-01

```
SELECT *  
FROM MyDatabase.`BOOKING 1`  
WHERE FromDate BETWEEN '2021-01-01' AND '2021-03-01';
```

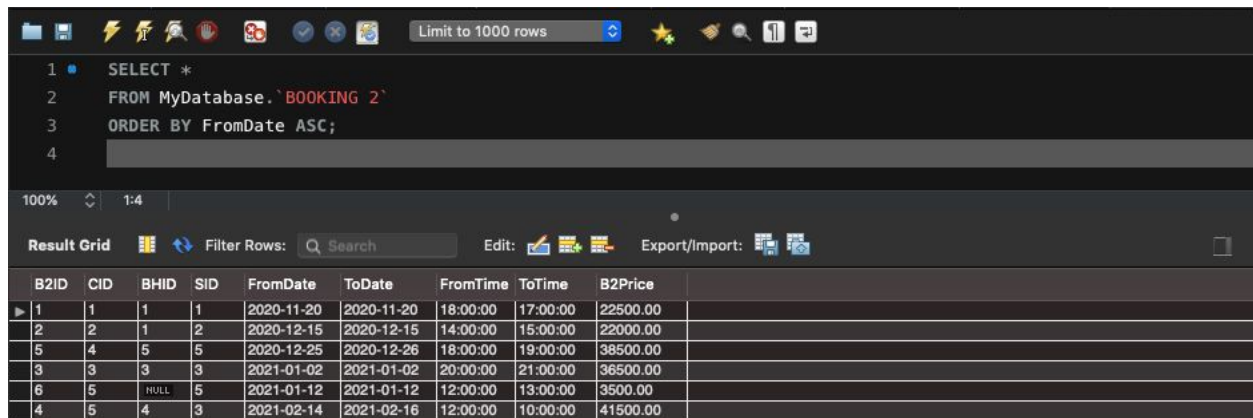


The screenshot shows a database query tool interface. The SQL query is entered in the top panel: `SELECT * FROM MyDatabase.`BOOKING 1` WHERE FromDate BETWEEN '2021-01-01' AND '2021-03-01';`. The results are displayed in a table below the query editor.

B1ID	CID	RID	FromDate	ToDate	Members	NoOfRooms	B1Price
3	3	3	2021-01-01	2021-01-03	2	1	14000.00
5	5	5	2021-02-14	2021-02-16	4	2	28000.00

5. Display all the records of BOOKING 2 table in ascending order of FromDate.

```
SELECT *
FROM MyDatabase.`BOOKING 2`
ORDER BY FromDate ASC;
```

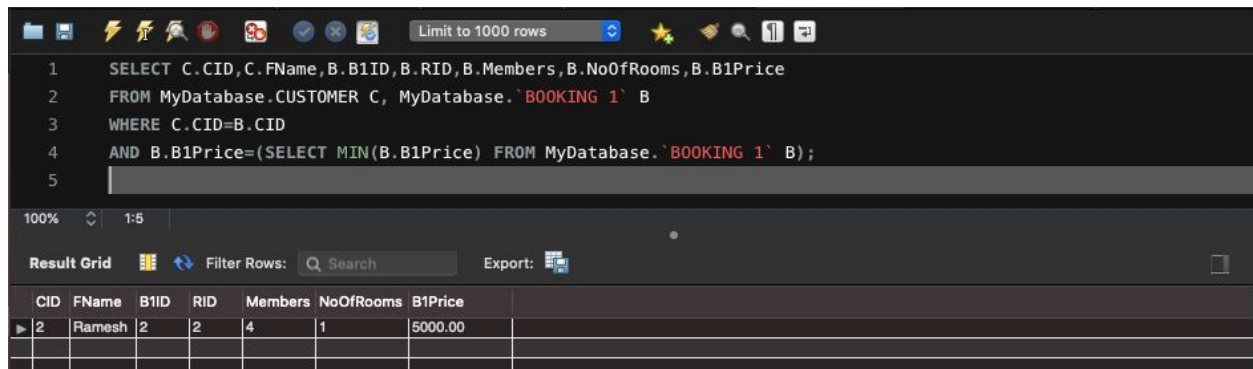


The screenshot shows a database query tool interface. The SQL query is entered in the top panel, and the results are displayed in a grid below. The grid has columns for B2ID, CID, BHID, SID, FromDate, ToDate, FromTime, ToTime, and B2Price. The results are sorted by FromDate in ascending order.

B2ID	CID	BHID	SID	FromDate	ToDate	FromTime	ToTime	B2Price
1	1	1	1	2020-11-20	2020-11-20	18:00:00	17:00:00	22500.00
2	2	1	2	2020-12-15	2020-12-15	14:00:00	15:00:00	22000.00
5	4	5	5	2020-12-25	2020-12-26	18:00:00	19:00:00	38500.00
3	3	3	3	2021-01-02	2021-01-02	20:00:00	21:00:00	36500.00
6	5	NULL	5	2021-01-12	2021-01-12	12:00:00	13:00:00	3500.00
4	5	4	3	2021-02-14	2021-02-16	12:00:00	10:00:00	41500.00

6. Find The Address Of Customer whose Payment Is Minimum.

```
SELECT C.CID,C.FName,B.B1ID, B.RID,B.Members,B.NoOfRooms, B.B1Price
FROM MyDatabase.CUSTOMER C, MyDatabase.`BOOKING 1` B
WHERE C.CID = B.CID
AND B.B1Price=(SELECT MIN ( B.B1Price ) FROM MyDatabase.`BOOKING 1` B);
```

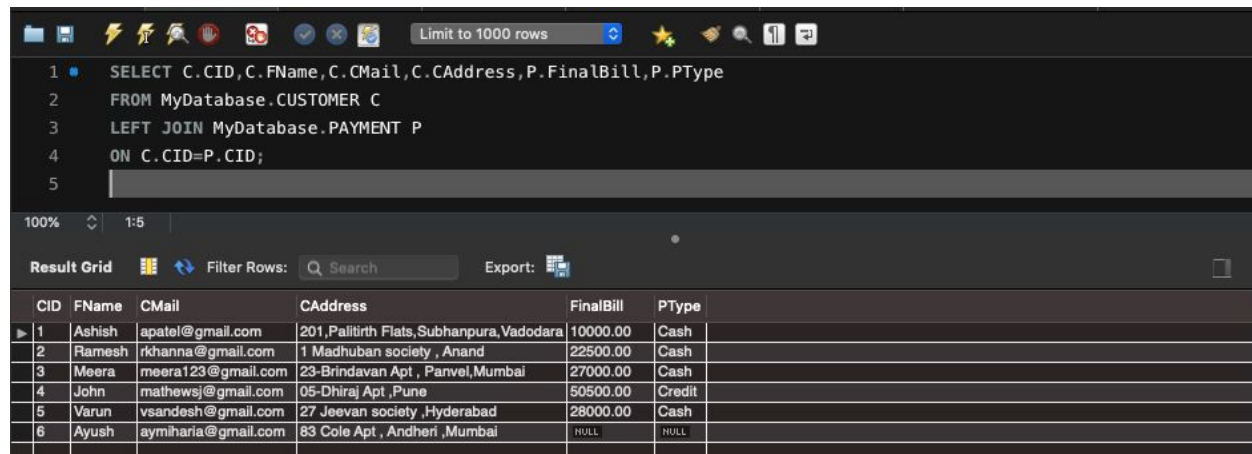


The screenshot shows a database query tool interface. The SQL query is entered in the top panel, and the results are displayed in a grid below. The grid has columns for CID, FName, B1ID, RID, Members, NoOfRooms, and B1Price. The results show the customer with the minimum payment.

CID	FName	B1ID	RID	Members	NoOfRooms	B1Price
2	Ramesh	2	2	4	1	5000.00

7. Use of left join to join CUSTOMER and PAYMENT table.

```
SELECT C.CID,C.FName,C.CMail,C.CAddress,P.FinalBill,P.PType
FROM MyDatabase.CUSTOMER C
LEFT JOIN MyDatabase.PAYMENT P
ON C.CID=P.CID;
```



The screenshot shows a database query editor with the following SQL query:

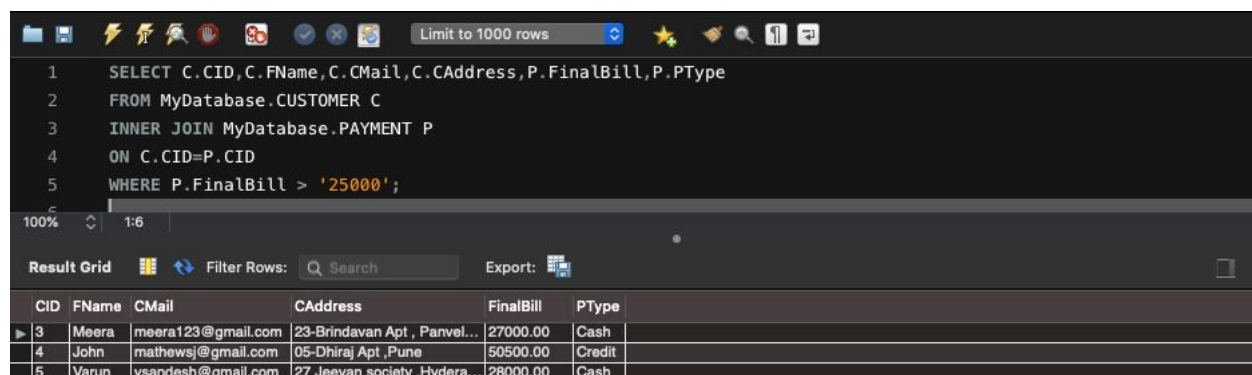
```
1 SELECT C.CID,C.FName,C.CMail,C.CAddress,P.FinalBill,P.PType
2 FROM MyDatabase.CUSTOMER C
3 LEFT JOIN MyDatabase.PAYMENT P
4 ON C.CID=P.CID;
```

The results are displayed in a table with the following columns: CID, FName, CMail, CAddress, FinalBill, and PType. The table contains 6 rows of data.

CID	FName	CMail	CAddress	FinalBill	PType
1	Ashish	apatel@gmail.com	201,Palitirth Flats,Subhanpura,Vadodara	10000.00	Cash
2	Ramesh	rkhanra@gmail.com	1 Madhuban society , Anand	22500.00	Cash
3	Meera	meera123@gmail.com	23-Brindavan Apt , Panvel,Mumbai	27000.00	Cash
4	John	mathewsj@gmail.com	05-Dhiraj Apt ,Pune	50500.00	Credit
5	Varun	vsandesh@gmail.com	27 Jeevan society ,Hyderabad	28000.00	Cash
6	Ayush	aymiharia@gmail.com	83 Cole Apt , Andheri ,Mumbai	NULL	NULL

8. Use of inner join to join CUSTOMER and PAYMENT table where FinalBill >25000.

```
SELECT C.CID,C.FName,C.CMail,C.CAddress,P.FinalBill,P.PType
FROM MyDatabase.CUSTOMER C
INNER JOIN MyDatabase.PAYMENT P
ON C.CID=P.CID
WHERE P.FinalBill > '25000';
```



The screenshot shows a database query editor with the following SQL query:

```
1 SELECT C.CID,C.FName,C.CMail,C.CAddress,P.FinalBill,P.PType
2 FROM MyDatabase.CUSTOMER C
3 INNER JOIN MyDatabase.PAYMENT P
4 ON C.CID=P.CID
5 WHERE P.FinalBill > '25000';
```

The results are displayed in a table with the following columns: CID, FName, CMail, CAddress, FinalBill, and PType. The table contains 3 rows of data.

CID	FName	CMail	CAddress	FinalBill	PType
3	Meera	meera123@gmail.com	23-Brindavan Apt , Panvel...	27000.00	Cash
4	John	mathewsj@gmail.com	05-Dhiraj Apt ,Pune	50500.00	Credit
5	Varun	vsandesh@gmail.com	27 Jeevan society ,Hydera...	28000.00	Cash

9. Use of cross join to join BOOKING 2 and BANQUET HALL table.

```
SELECT B.B2ID,B.BHID,B.CID,B.SID,B.B2Price,H.BHCategoryID,H.Status
FROM MyDatabase.`BOOKING 2` B
CROSS JOIN MyDatabase.`BANQUET HALL` H;
```

B2ID	BHID	CID	SID	B2Price	BHCategoryID	Status
1	1	1	1	22500.00	A	1
1	1	1	1	22500.00	A	1
1	1	1	1	22500.00	B	1
1	1	1	1	22500.00	A	1
1	1	1	1	22500.00	B	1
2	1	2	2	22000.00	A	1
2	1	2	2	22000.00	A	1
2	1	2	2	22000.00	B	1
2	1	2	2	22000.00	A	1
2	1	2	2	22000.00	B	1
3	3	3	3	36500.00	A	1
3	3	3	3	36500.00	A	1
3	3	3	3	36500.00	B	1
3	3	3	3	36500.00	A	1
3	3	3	3	36500.00	B	1
4	4	5	3	41500.00	A	1
4	4	5	3	41500.00	A	1
4	4	5	3	41500.00	B	1
4	4	5	3	41500.00	A	1
4	4	5	3	41500.00	B	1
5	5	4	5	38500.00	A	1
5	5	4	5	38500.00	A	1
5	5	4	5	38500.00	B	1
5	5	4	5	38500.00	A	1
5	5	4	5	38500.00	B	1
6	NULL	5	5	3500.00	A	1
6	NULL	5	5	3500.00	A	1
6	NULL	5	5	3500.00	B	1
6	NULL	5	5	3500.00	A	1
6	NULL	5	5	3500.00	B	1

10. Display WORKER name whose DESIGNATION is Receptionist.

```
SELECT *
FROM MyDatabase.`LIST OF WORKERS`
WHERE WDesignation = 'Receptionist';
```

```

1 SELECT *
2 FROM MyDatabase.`LIST OF WORKERS`
3 WHERE WDesignation = 'Receptionist';
4

```

100% 1:4

Result Grid Filter Rows: Search Edit: Export/Import:

WID	WName	WAddress	WMail	WSalary	WDesignation
2	Abhijeet Mathur	3 Madhur society,Ahmedabad	abhim@gmail.com	25000.00	Receptionist

11. UPDATE some values from table ROOMS where RoomTypeID is C.

```

UPDATE MyDatabase.ROOMS
SET RoomNumber = '403', Status = '0'
WHERE RoomTypeID = 'C';
SELECT * FROM MyDatabase.ROOMS ;

```

Limit to 1000 rows

```

1 UPDATE MyDatabase.ROOMS
2 SET RoomNumber = '403', Status = '0'
3 WHERE RoomTypeID = 'C';
4 SELECT * FROM MyDatabase.ROOMS ;
5

```

100% 1:5

Result Grid Filter Rows: Search Edit: Export/Import:

RID	RoomTypeID	RoomNumber	Status
1	A	105	0
2	A	103	1
3	B	306	1
4	C	403	0
5	B	307	0

7.4FUNCTION:

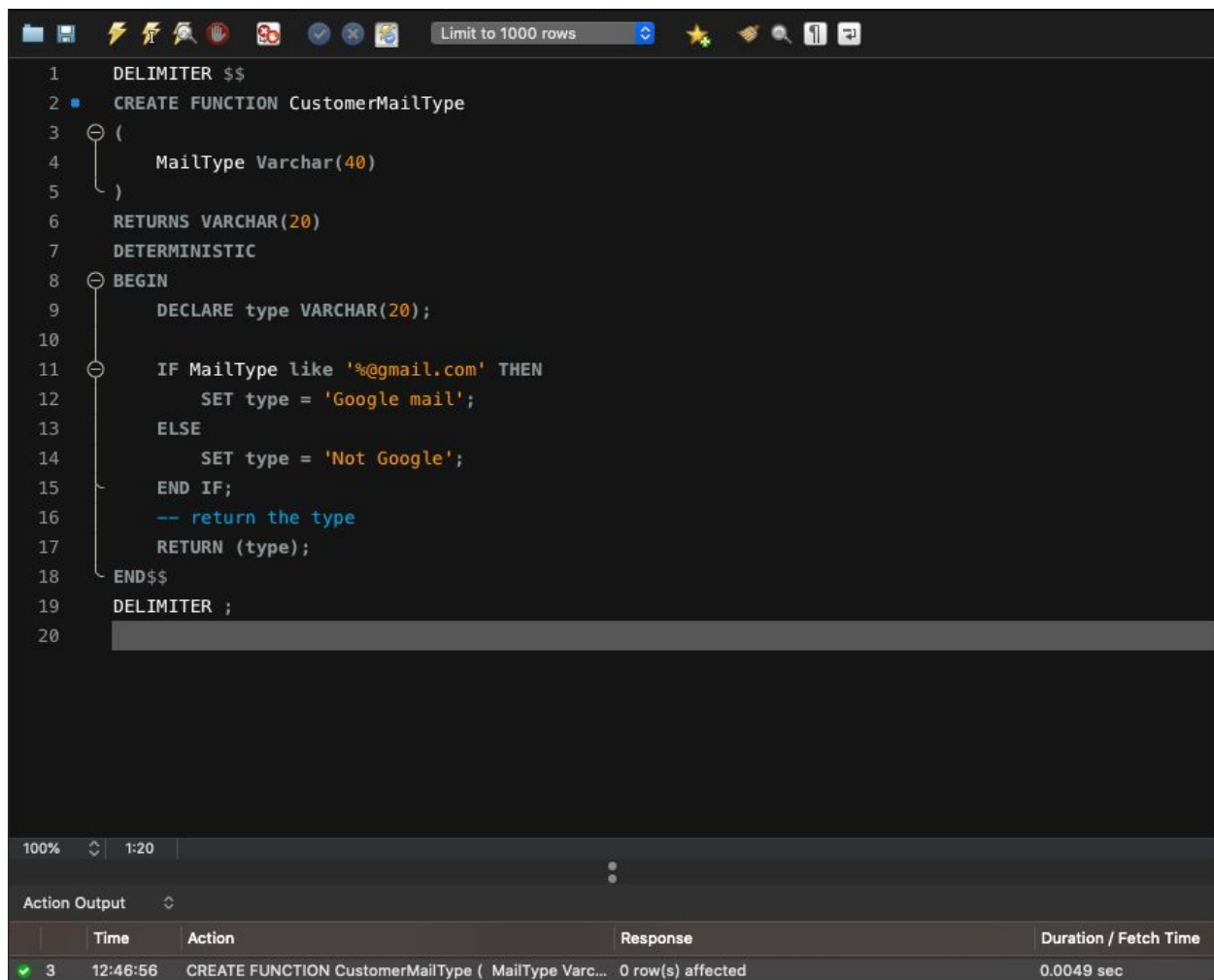
1) SHOWS IF THE CUSTOMER HAS GOOGLE ACCOUNT OR NOT

```
DELIMITER $$
CREATE FUNCTION CustomerMailType
(
    MailType Varchar(40)
)
RETURNS VARCHAR(20)
DETERMINISTIC
BEGIN
    DECLARE type VARCHAR(20);

    IF MailType like '%@gmail.com' THEN
        SET type = 'Google mail';
    ELSE
        SET type = 'Not Google';
    END IF;

    -- return the type
    RETURN (type);
END$$
```

DELIMITER ;



```

1  DELIMITER $$
2  CREATE FUNCTION CustomerMailType
3  (
4      MailType Varchar(40)
5  )
6  RETURNS VARCHAR(20)
7  DETERMINISTIC
8  BEGIN
9      DECLARE type VARCHAR(20);
10
11     IF MailType like '%@gmail.com' THEN
12         SET type = 'Google mail';
13     ELSE
14         SET type = 'Not Google';
15     END IF;
16     -- return the type
17     RETURN (type);
18 END$$
19 DELIMITER ;
20

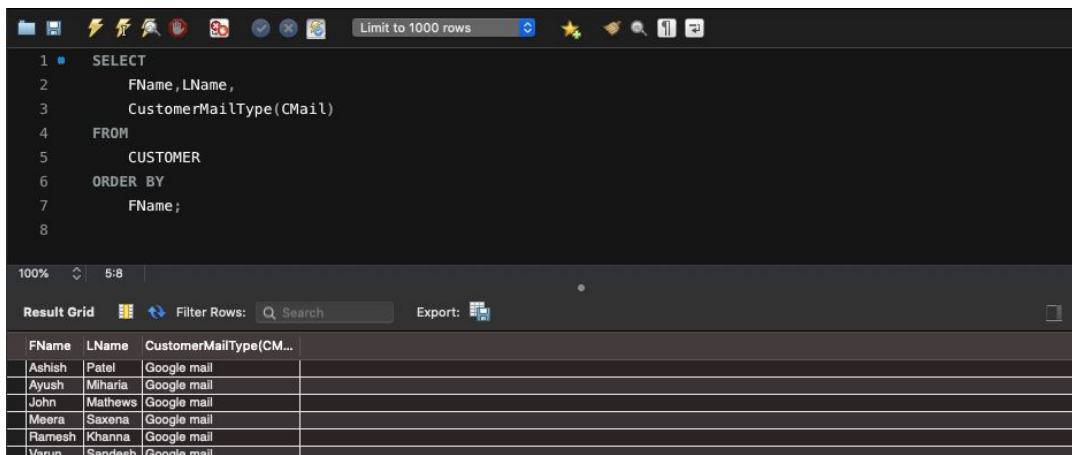
```

100% 1:20

Action Output

	Time	Action	Response	Duration / Fetch Time
3	12:46:56	CREATE FUNCTION CustomerMailType (MailType Varc...	0 row(s) affected	0.0049 sec

SELECT FName, LName, CustomerMailType(CMail)
FROM CUSTOMER
ORDER BY FName;



```

1  SELECT
2      FName, LName,
3      CustomerMailType(CMail)
4  FROM
5      CUSTOMER
6  ORDER BY
7      FName;
8

```

100% 5:8

Result Grid Filter Rows: Search Export:

FName	LName	CustomerMailType(CM...
Ashish	Patel	Google mail
Ayush	Miharia	Google mail
John	Mathews	Google mail
Meera	Saxena	Google mail
Ramesh	Khanna	Google mail
Varun	Sandesh	Google mail

7.5 PROCEDURE AND EXCEPTION HANDLING

1) INSERTING WORKERS VALUES ONLY IF THE WORKER HAS A GOOGLE MAIL ACCOUNT

DELIMITER \$\$

```
create procedure workers_Data(IN WName varchar(10),IN WAddress varchar(40),IN  
WMail varchar(20),
```

```
IN WSalary decimal(10,0),IN WDesignation varchar(20))
```

```
begin
```

```
DECLARE counter varchar(4);
```

```
    select count(WID) into counter from `LIST OF WORKERS`;
```

```
    set counter = counter + 1;
```

```
    IF WMail like '%@gmail.com' THEN
```

```
        INSERT into `LIST OF WORKERS` VALUES
```

```
(WName,WAddress,WMail,WSalary,WDesignation);
```

```
        SELECT 'YOUR DATA IS INSERTED' AS MESSAGE;
```

```
    ELSE
```

```
        SELECT 'YOUR Email-ID is not valid' AS ERROR;
```

```
    END IF;
```

```
END $$
```

```
DELIMITER;
```



```

1  DELIMITER $$
2  create procedure workers_Data(IN WName varchar(10),IN WAddress varchar(40),IN WMail varchar(20),
3  IN WSalary decimal(10,0),IN WDesignation varchar(20))
4  begin
5      DECLARE counter varchar(4);
6      select count(WID) into counter from `LIST OF WORKERS`;
7      set counter = counter + 1;
8      IF WMail like '%@gmail.com' THEN
9          INSERT into `LIST OF WORKERS` VALUES (WName,WAddress,WMail,WSalary,WDesignation);
10         SELECT 'YOUR DATA IS INSERTED' AS MESSAGE;
11     ELSE
12         SELECT 'YOUR Email-ID is not valid' AS ERROR;
13     END IF;
14 END $$
15 DELIMITER ;
16

```

100% 1:16

Action Output

	Time	Action	Response	Duration / Fetch Time
3	13:38:55	create procedure workers_Data(IN WName varchar(10),IN WAddress varchar(40),I...	0 row(s) affected	0.0046 sec

CALL workersData ('Arjun','26-BeeHoles
Academy,Surat','arjun@yahoo.com',12000,'Manager');

```

1  CALL workers_Data ('Arjun','26-BeeHoles Academy,Surat','arjun@yahoo.com',12000,'Manager');
2

```

100% 1:2

Result Grid Filter Rows: Search Export:

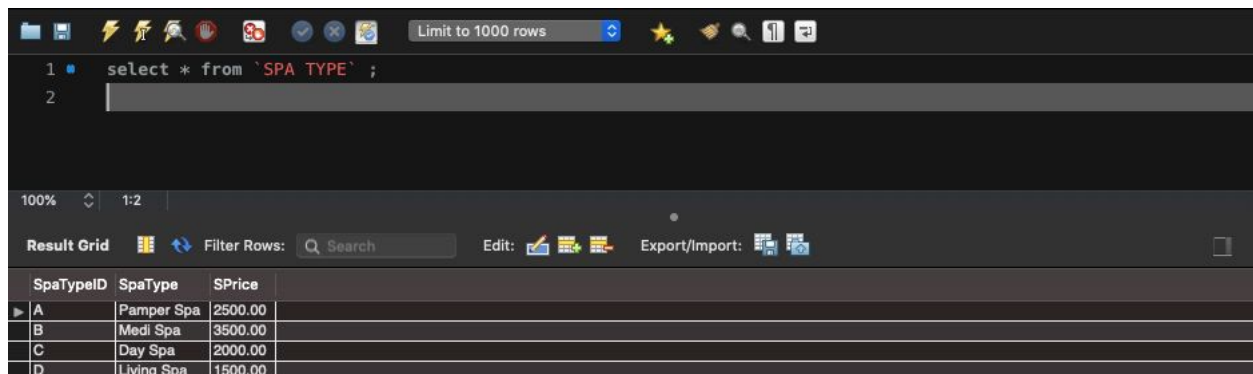
ERROR
YOUR Email-ID is not valid

7.6 TRIGGERS:

1) UPDATE SPECIFIC SPA TYPE

```
DELIMITER $$
CREATE TRIGGER t1 AFTER UPDATE ON `SPA TYPE` FOR EACH ROW
BEGIN
    DECLARE v1 VARCHAR(20);
    SELECT SpaType INTO v1 FROM `SPA TYPE` WHERE
    SpaType=NEW.SpaType;
    UPDATE `BOOKING 2` SET `SpaType`=v1 WHERE SpaType=OLD.SpaType;
END $$
DELIMITER ;

UPDATE `SPA TYPE` SET `SpaType`="Living Spa" WHERE SpaType="Stay Spa";
```



The screenshot shows a database management interface with a SQL editor and a results grid. The SQL editor contains the query: `select * from `SPA TYPE` ;`. The results grid displays the following data:

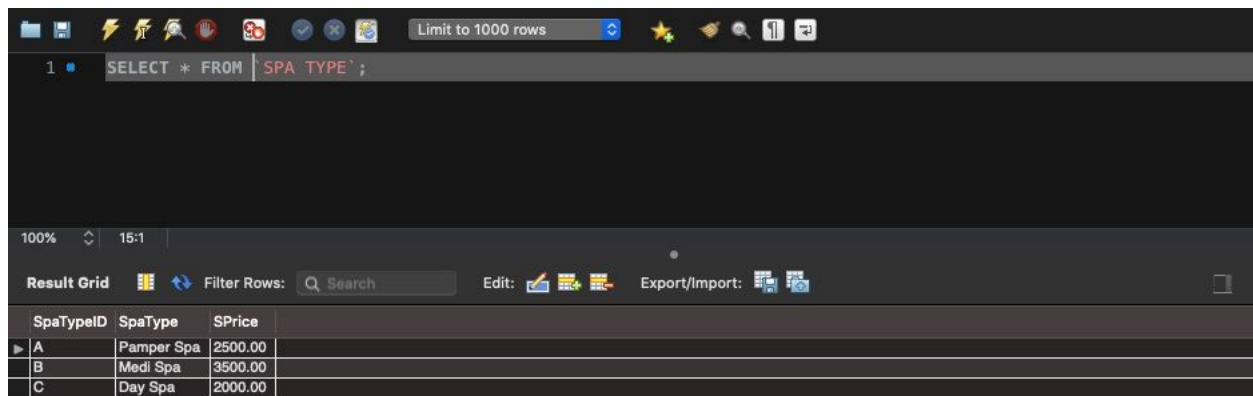
SpaTypeID	SpaType	SPrice
A	Pamper Spa	2500.00
B	Medi Spa	3500.00
C	Day Spa	2000.00
D	Living Spa	1500.00

2) DELETE SPECIFIC SPA TYPE FROM SPA TABLE AND BOOKING 2 TABLE

```
DELIMITER $$
CREATE TRIGGER t2 AFTER DELETE ON `SPA TYPE` FOR EACH ROW
BEGIN
    DECLARE v1 VARCHAR(20);
    SELECT SpaType INTO v1 FROM `SPA TYPE` WHERE
```

```
SpaType=NEW.SpaType;  
DELETE FROM `BOOKING 2` WHERE SpaType=OLD.SpaType;  
END $$  
DELIMITER ;
```

```
DELETE FROM `SPA TYPE` WHERE SpaType="Living Spa";
```



The screenshot shows a database management interface. At the top, a SQL query is entered in a text area: `SELECT * FROM `SPA TYPE`;`. Below the query, a toolbar contains various icons for editing and viewing data. The main area displays a 'Result Grid' with a table of data. The table has three columns: 'SpaTypeID', 'SpaType', and 'SPPrice'. There are three rows of data: 'A' (Pamper Spa, 2500.00), 'B' (Medi Spa, 3500.00), and 'C' (Day Spa, 2000.00). The interface also includes a search bar and a 'Filter Rows' button.

SpaTypeID	SpaType	SPPrice
A	Pamper Spa	2500.00
B	Medi Spa	3500.00
C	Day Spa	2000.00

7.7 CURSOR:

1) SHOW THE NAMES OF ALL TYPES OF SPA

```
DELIMITER $$
CREATE PROCEDURE r1 (INOUT Spa_List VARCHAR(1000))
BEGIN
    DECLARE done INTEGER DEFAULT 0;
    DECLARE s_name VARCHAR(20) DEFAULT "";
    DECLARE s_cursor CURSOR FOR
        SELECT SpaType FROM `SPA TYPE`;
    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
    OPEN s_cursor;
    list:LOOP
        FETCH s_cursor INTO s_name;
        IF done = 1 THEN
            LEAVE list;
        END IF;
        SET Spa_List = CONCAT(s_name, "-->", Spa_List);
    END LOOP list;
    CLOSE s_cursor;
END$$
DELIMITER ;

SET @Spa_List="";
CALL r1(@Spa_List);
SELECT @Spa_List;
```

The screenshot displays a database IDE interface. The top section contains a SQL script for creating a stored procedure and executing it. The script is as follows:

```

1  DELIMITER $$
2  CREATE PROCEDURE r1 (INOUT Spa_List VARCHAR(1000))
3  BEGIN
4      DECLARE done INTEGER DEFAULT 0;
5      DECLARE s_name VARCHAR(20) DEFAULT "";
6      DECLARE s_cursor CURSOR FOR
7      SELECT SpaType FROM `SPA TYPE`;
8      DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
9      OPEN s_cursor;
10     list:LOOP
11     FETCH s_cursor INTO s_name;
12     IF done = 1 THEN
13         LEAVE list;
14     END IF;
15     SET Spa_List = CONCAT(s_name, "-->", Spa_List);
16     END LOOP list;
17     CLOSE s_cursor;
18 END$$
19 DELIMITER ;
20
21 SET @Spa_List="";
22 CALL r1(@Spa_List);
23 SELECT @Spa_List;

```

Below the script, the execution results are shown. The "Result Grid" displays the output of the final SELECT statement:

@Spa_List
Day Spa-->Medi Spa-->Pamper Spa-->

The "Action Output" section shows the execution details:

	Time	Action	Response	Duration / Fetch Time
✓ 50	17:24:07	SELECT @Spa_List LIMIT 0, 1000	1 row(s) returned	0.00037 sec / 0.0000...

8. FUTURE ENHANCEMENT OF THE SYSTEM

- We plan on designing the front-end design of this system using Python.
- Keep on changing the UI-Design to make the website look more attractive.
- Making the servers and database more consistent, efficient and easy to implement huge amount of data.
- Transforming this web-based application to mobile application for better portability and making it more reliable.
- User data input, methods and output will be easier after the implementation of GUI.
- For security purposes, new registration can be taken using OTP.

9. BIBLIOGRAPHY

- For the successful implementation of this project we referred to many websites and books.
- The schema was designed by taking various ideas from websites og google.com.
- We created the ER Diagram on ‘erdplus.com’.
- Schema Diagram and further implementation of database is done on MySql Workbench.
- Mostly we referred the online material for syntax of procedures, triggers, Exception and cursors.

- **Reference book:**

DataBase System Concepts

-Henry F. Korth & A. Silberschatz 2nd Ed. McGraw-Hill 1991

PL/SQL Programming

-Ivan Bayross

- **Reference Websites:**

<https://stackoverflow.com/>

<https://www.w3schools.com/>

<https://www.tutorialspoint.com/>

<http://www.mysqltutorial.org/>

<https://erdplus.com/>