

KULLIYYAH OF INFORMATION & COMMUNICATION TECHNOLOGY

[INFO 1103 DATABASE SYSTEMS](https://italeem.iium.edu.my/2017/course/view.php?id=2882)

**SEMESTER 1, 2017/2018**

**SECTION 5**

**Final Project**

**Sports Facility Booking System**

*PREPARED BY*:

|  |  |
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**1.0 Introduction**

We are going to start working on a project to automate the operation of SportCast We are calling the system as Sports Facility Booking System. Currently all the operation at Sport Cast is done manually from customer registration, reserving venues, and selecting equipment. The Sports Facility Booking System replaces some of the manual process with an integrated computerized system that will capture records, improve customer service, reduce operational cost and increase customer satisfaction. This project is estimated to cost the company $180,000 and the duration of the project is about 6 months.

**1.2 Business Transactions**

1. Register Customer
2. Register Staff
3. Register Venues
4. Customer reserving Venues
5. Customer selecting equipment
6. Customer payment
7. Accept Payment
8. Process due payment
9. Print due Report
10. Print Customer Invoice

**1.3 Screen Design**

1. Customer registration screen
2. Staff registration screen
3. Venues reserving screen
4. Payment screen

**1. Customer registration screen**



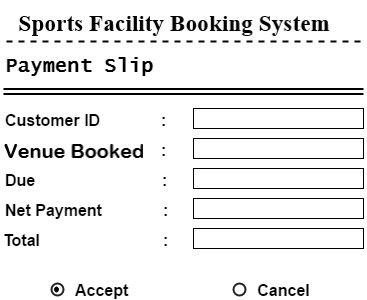
**2. Staff Registration Form**



**3. Venue Reservation Screen**



**4. Payment Screen**



**1.4 Document / Report Design**

1. Due Report
2. Customer Invoice

**1. Due Report**

**Sports Facility Booking System**



**2. Customer Invoice**

**Sports Facility Booking System**



**2.0 Entity-Relationship Model**

Customer

customer\_id(PK)

Name

fName

lName

Sex

tellNo

Address

Street

city

state

zipcode

1.\*

1.\*

1.\*

Paid by

1.\*

1.\*

0.\*

1.1 Requests

Processes 1.1

has

Staff

staff\_id(PK)

Name

fName

lName

sex

DOB

Position

Salary

tellNo

Address

Street

City

State

zipcode

Reservation

reservation\_ID(PK)

customer\_ID(FK)

staff\_ID(FK)

venue\_id(FK)

reservationDate

time

duration

Reserved By 1.\*

1.1

Venue

venue\_id(PK)

venueName

venueType

Capacity

Price

Address

Street

City

State

zipcode

Payment

payment\_ID(PK)

reservation\_ID(FK)

paymentDate

amount

Equipment

eq\_ID(PK)

venue\_ID(FK)

eqType

availability

**3.0 LOGICAL DATABASE DESIGN**

**Customer** (customer\_Id, fName, lName, sex, telNo, street, city, state, zipcode )

**Primary key** – customer\_Id

**Staff** (staff\_Id, fName, lName, sex, DOB, position, salary, telNo, street, city,

state, zipcode)

**Primary key** – stuff\_Id

**Venue** (venue\_Id, name, type capacity, price, street, city, state, zipcode)

**Primary key** – venue\_Id

**Equipment** (eq\_Id, type, availability, venue\_Id)

**Primary key** – eq\_Id

**Foreign key** – venue\_Id references **Venue** (venue\_Id)

**Reservation** (reservation\_Id, reservationdate, time, duration, customer\_Id,

staff\_Id, venue\_Id)

**Primary key** – reservation\_Id

**Foreign key** – customer\_Id references **Customer** (customer\_Id)

**Foreign key** – staff\_Id references **Staff** (staff\_Id)

**Foreign key** – venue\_Id references **Venue** (venue\_Id)

**Payment** (payment\_Id, paymentDate, amount, reservation\_Id)

**Primary key** – payment\_Id

**Foreign key** – reservation\_Id references **Reservation** (reservation\_Id)

**4.0 PHYSICAL DATABASE DESIGN**

Create Table Customer

(

customer\_Id varchar(5) not null,

fName char(10),

lName char(10),

sex char(1),

telNo number(11),

street varchar(20),

city varchar(20),

state varchar(20),

zipcode number(6),

PRIMARY KEY (customer\_Id)

);

Create Table Staff

(

staff\_Id varchar(5) not null,

fName char(10),

lName char(10),

sex char(1),

dob date,

position char(10),

salary number(7,2),

telNo number(11),

street varchar(20),

city varchar(20),

state varchar(20),

zipcode number(6),

PRIMARY KEY (staff\_Id) );

**4.0 PHYSICAL DATABASE DESIGN**

Create Table Customer

(

customer\_Id varchar(5) not null,

fName char(10),

lName char(10),

sex char(1),

telNo number(11),

street varchar(20),

city varchar(20),

state varchar(20),

zipcode number(6),

PRIMARY KEY (customer\_Id)

);

Create Table Staff

(

staff\_Id varchar(5) not null,

fName char(10),

lName char(10),

sex char(1),

dob date,

position char(10),

salary number(7,2),

telNo number(11),

street varchar(20),

city varchar(20),

state varchar(20),

zipcode number(6),

PRIMARY KEY (staff\_Id)

);

Create Table Venue

(

venue\_Id varchar(4) not null,

name char(50),

type char(20),

capacity number(5),

price number(6),

street varchar(20),

city varchar(20),

state varchar(20),

zipcode number(6),

PRIMARY KEY (venue\_Id)

);

Create Table Equipment

(

eq\_Id varchar(4) not null,

type char(20),

availibility number(3),

venue\_Id varchar(4),

PRIMARY KEY (eq\_Id),

FOREIGN KEY (venue\_Id) references Venue(venue\_Id)

);

Create Table Reservation

(

reservation\_Id varchar(5) not null,

reservationdate date,

time number(4),

duration number(2),

customer\_Id varchar(5),

staff\_Id varchar(5),

venue\_Id varchar(4),

PRIMARY KEY (reservation\_Id),

FOREIGN KEY (customer\_Id) references Customer(customer\_Id),

FOREIGN KEY (staff\_Id) references Staff(staff\_Id),

FOREIGN KEY (venue\_Id) references Venue(venue\_Id)

);

Create Table Payment

(

payment\_Id varchar(6) not null,

paymentdate date,

amount number(6),

reservation\_Id varchar(5),

PRIMARY KEY (payment\_Id),

FOREIGN KEY (reservation\_Id) references Reservation(reservation\_Id)

);

insert into Customer values ('C1569', 'Imtiaz', 'sakib', 'M', 0182874247, 'jln sri gombak',

'gombak', 'selangor', 53100);

insert into Customer values ('C1420', 'Yang', 'hao', 'M', 0185683756, 'wangsa maju', 'setapak', 'kuala lumpur', 54050);

insert into Customer values ('C1430', 'Jack', 'frost', 'M', 0115698346, '28,gombak', 'gombak', 'selangor', 53200);

insert into Customer values ('C1179', 'Piggy', 'quene', 'F', 0115673284, 'chowkit', 'kuala lumpur', 'kuala lumpur', 50960);

insert into Customer values ('C2497', 'David', 'thomas', 'M', 0183294618, '245 lane end', 'setapak', 'kuala lumpur', 54470);

insert into Customer values ('C1968', 'Alaine', 'jones', 'F', 0184193725, '1, old road', 'sri petalin', 'kuala lumpur', 54230);

insert into Customer values ('C2060', 'Symon', 'lee', 'M', 0116274531, '1002 north end', 'puchong', 'selangor', 54150);

insert into Customer values ('C1325', 'Mior', 'hanif', 'M', 0185274632, 'taman anjaria', 'kota bharu', 'kelantan', 15400);

insert into Customer values ('C1502', 'Aina', 'fariha', 'F', 0113524862, 'jln kampung laut', 'kelantan', 'kelantan', 15400);

insert into Customer values ('C2055', 'Nurul', 'hosna', 'F', 0185213524, 'george town', 'penang', 'penang', 10300);

insert into Customer values ('C1956', 'Siti', 'najiha', 'F', 0112313526, 'putra height', 'subangjaya', 'selangor', 40400);

insert into Customer values ('C2585', 'Afi', 'johari', 'F', 0185252564, 'jln p5 putrajaya', 'wp putrajaya', 'putrajaya', 62200);

insert into Customer values ('C1685', 'Mohd', 'nawfal', 'M', 0185252654, '17 tawaj idaman', 'ipoh', 'perak', 30010);

insert into Customer values ('C1431', 'Hazim', 'azizi', 'M', 0112586321, 'jln teruntum', 'kuantan', 'pahang', 25000);

insert into Customer values ('C2111', 'Amalin', 'soleha', 'F', 0182541252, 'persiaran semarak', 'cyberjaya', 'selangor', 63000);

insert into Staff values ('S1040', 'john', 'white', 'M', to\_date('1/11/1965', 'dd/mm/yyyy'), 'manager', 30000, 0184236952, '205 lane end', 'setapak', 'kuala lumpur', 54470);

insert into Staff values ('S2506', 'ann', 'beech', 'F', to\_date('10/10/1980', 'dd/mm/yyyy'), 'assistant', 15000, 0114521252, '1, old road', 'sri petalin', 'kuala lumpur', 54230);

insert into Staff values ('S1525', 'David', 'ford', 'M', to\_date('24/03/1978', 'dd/mm/yyyy'), 'supervisor', 18000, 0185258563, 'jln p5 putrajaya', 'wp putrajaya', 'putrajaya', 62200);

insert into Staff values('S1852', 'Marry', 'howe', 'F', to\_date('19/02/1985', 'dd/mm/yyyy'), 'assistant', 10000, 0187478846, 'persiaran semarak', 'cyberjaya', 'selangor', 63000);

insert into Staff values ('S1134', 'Abdul', 'galif', 'M', to\_date('20/05/1982', 'dd/mm/yyyy'), 'manager', '24000', 0112123652, 'wangsa maju', 'setapak', 'kuala lumpur', 54050);

insert into Staff values('S1902', 'Nabil', 'showki', 'M', to\_date('21/08/1988', 'dd/mm/yyyy'), 'supervisor', 16000, 0186936321, 'putra height', 'subangjaya', 'selangor', 40400);

insert into Venue values ('V102', 'Kl convention centre', 'convention centre', 500, 280, 'jln pinang', 'kuala lumpur', 'kuala lumpur', 50088);

insert into Venue values ('V103', 'sunway convention centre', 'convention centre', 430, 290, 'bandar sunway', 'subangjaya', 'selangor', 47500);

insert into Venue values ('V201', 'carnival club', 'club house', 250, 180, 'jln 2/23d', 'setapak', 'kuala lumpur', 53300);

insert into Venue values ('V205', 'the raintree', 'club house', 220, 150, 'jln wickham', 'ampang', 'kuala lumpur', 5500);

insert into Venue values ('V309', 'vision kl', 'scouts and theatres', 660, 200, 'jln 1/13a', 'setia alam', 'shah alam', 2500);

insert into Venue values ('V405', 'lilnagkit cultural village', 'village venue', 150, 120, '7/a', 'wangsa maju', 'kuala lumpur', 54820);

insert into Equipment values('E101', 'Bat', 800, 'V102');

insert into Equipment values('E103', 'Football', 60, 'V103');

insert into Equipment values('E105', 'microphone', 10, 'V309');

insert into Equipment values('E106', 'speaker', 20, 'V309');

insert into Equipment values('E108', 'projector', 5, 'V309');

insert into Equipment values(' E201', 'Net', 60, 'V201');

insert into Equipment values('E107', 'hockey', 60, 'V103');

insert into Equipment values('E109', 'Tenis ball', 60, 'V103');

insert into Reservation values('R1011', to\_date('03/01/2017', 'dd/mm/yyyy'), 18, 4, 'C1569', 'S2506', 'H102');

insert into Reservation values('R1015', to\_date('17/01/2017', 'dd/mm/yyyy'), 20, 3, 'C1420', 'S2506', 'H102');

insert into Reservation values('R1022', to\_date('14/02/2017', 'dd/mm/yyyy'), 15, 5, 'C1430', 'S2506', 'H102');

insert into Reservation values('R1024', to\_date('28/02/2017', 'dd/mm/yyyy'), 18, 2, 'C1179', 'S2506', 'H103');

insert into Reservation values('R1036', to\_date('06/03/2017', 'dd/mm/yyyy'), 19, 3, 'C2497', 'S2506', 'H103');

insert into Reservation values('R1038', to\_date('13/03/2017', 'dd/mm/yyyy'), 20, 4, 'C1968', 'S1525', 'V103');

insert into Reservation values('R1044', to\_date('10/04/2017', 'dd/mm/yyyy'), 15, 3, 'C2060', 'S1525', 'V201');

insert into Reservation values('R1046', to\_date('17/04/2017', 'dd/mm/yyyy'), 18, 2, 'C1325', 'S1525', 'V201');

insert into Reservation values('R1051', to\_date('08/05/2017', 'dd/mm/yyyy'), 22, 2, 'C1502', 'S1525', 'V201');

insert into Reservation values('R1056', to\_date('29/05/2017', 'dd/mm/yyyy'), 16, 3, 'C2055', 'S1525', 'V205');

insert into Reservation values('R1063', to\_date('12/06/2017', 'dd/mm/yyyy'), 20, 4, 'C1956', 'S1852', 'V205');

insert into Reservation values('R1069', to\_date('19/06/2017', 'dd/mm/yyyy'), 19, 5, 'C2585', 'S1852', 'V205');

insert into Reservation values('R1075', to\_date('10/07/2017', 'dd/mm/yyyy'), 16, 6, 'C1685', 'S1852', 'V309');

insert into Reservation values('R1077', to\_date('31/07/2017', 'dd/mm/yyyy'), 20, 3, 'C1431', 'S1852', 'V309');

insert into Reservation values('R1081', to\_date('14/08/2017', 'dd/mm/yyyy'), 22, 2, 'C2111', 'S1852', 'V309');

insert into Reservation values('R1084', to\_date('28/08/2017', 'dd/mm/yyyy'), 19, 4, 'C1968', 'S1902', 'V405');

insert into Reservation values('R1093', to\_date('11/09/2017', 'dd/mm/yyyy'), 20, 3, 'C1956', 'S1902', 'V405');

insert into Reservation values('R1096', to\_date('18/09/2017', 'dd/mm/yyyy'), 15, 4, 'C2497', 'S1902', 'V405');

insert into Reservation values('R1101', to\_date('09/10/2017', 'dd/mm/yyyy'), 18, 5, 'C1502', 'S1902', 'V103');

insert into Reservation values('R1105', to\_date('23/10/2017', 'dd/mm/yyyy'), 20, 4, 'C1325', 'S1902', 'V201');

insert into Payment values('P00025', to\_date('03/01/2017', 'dd/mm/yyyy'), 840, 'R1011');

insert into Payment values('P00028', to\_date('17/01/2017', 'dd/mm/yyyy'), 670, 'R1015');

insert into Payment values('P00031', to\_date('14/02/2017', 'dd/mm/yyyy'), 1100, 'R1022');

insert into Payment values('P00037', to\_date('28/02/2017', 'dd/mm/yyyy'), 430, 'R1024');

insert into Payment values('P00041', to\_date('06/03/2017', 'dd/mm/yyyy'), 630, 'R1036');

insert into Payment values('P00054', to\_date('13/03/2017', 'dd/mm/yyyy'), 950, 'R1038');

insert into Payment values('P00055', to\_date('10/04/2017', 'dd/mm/yyyy'), 820, 'R1044');

insert into Payment values('P00059', to\_date('17/04/2017', 'dd/mm/yyyy'), 545, 'R1046');

insert into Payment values('P00068', to\_date('08/05/2017', 'dd/mm/yyyy'), 600, 'R1051');

insert into Payment values('P00075', to\_date('29/05/2017', 'dd/mm/yyyy'), 780, 'R1056');

insert into Payment values('P00088', to\_date('12/06/2017', 'dd/mm/yyyy'), 1023, 'R1063');

insert into Payment values('P00095', to\_date('19/06/2017', 'dd/mm/yyyy'), 1500, 'R1069');

insert into Payment values('P00096', to\_date('10-07-2017', 'dd/mm/yyyy'), 1900, 'R1075');

insert into Payment values('P00101', to\_date('31-07-2016', 'dd/mm/yyyy'), 750, 'R1077');

insert into Payment values('P00125', to\_date('14-08-2017', 'dd/mm/yyyy'), 590, 'R1081');

insert into Payment values('P00136', to\_date('28-08-2017', 'dd/mm/yyyy'), 1055, 'R1084');

insert into Payment values('P00139', to\_date('11-09-2017', 'dd/mm/yyyy'), 900, 'R1093');

insert into Payment values('P00150', to\_date('18-09-2017', 'dd/mm/yyyy'), 955, 'R1096');

insert into Payment values('P00156', to\_date('09-10-2017', 'dd/mm/yyyy'), 1600, 'R1101');

insert into Payment values('P00161', to\_date('23-10-2017', 'dd/mm/yyyy'), 1522, 'R1105');

**5.0 SAMPLES QUERIES**

**5.1 Basic queries**

Q1.1 Insert record for 1 customer named ‘Amad soleman’

insert into Customer values('C2991', 'Amad', 'soleman', 'm', 0189541292, 'persiaran semarak', 'cyberjaya', 'selangor', 63000);

Q1.2 Change reservation with ID R1077 venue Id from V309 to V201

update Reservation set venue\_Id = 'V201' where reservation\_Id = 'R1077';

Q1.3 Delete record for 1 payment with ID P00025

delete from Payment where payment\_Id = 'P00025';

Q1.4 Insert record for 1 payment with ID P10025

insert into Payment values('P10025', to\_date('03/01/2016', 'dd/mm/yyyy'), 700, 'R1011');

Q1.5 Change staff with ID S1902 salary from 16000 to 20000

update Staff set salary = 20000 where staff\_Id = 'S1902';

**5.2 Operational Queries**

Q2.1 List reservation information that have been paid more than 800

select r.reservationDate, r.time, r.duration, r.venue\_Id, r.customer\_Id, p.amount

from reservation r, payment p

where r.reservation\_Id = p.reservation\_Id and p.amount > 800

order by r.reservationDate;

Q2.2 List reservation information processed by staff ‘Nabil showki’

select s.staff\_Id, r.reservation\_Id, r.reservationDate, r.venue\_Id

from staff s, reservation r

where s.staff\_id = r.staff\_Id and s.staff\_Id = 'S1902';

Q2.3 List reservation information reserved by customer ‘Piggy quene’

select c.customer\_id, c.fName, r.reservationDate, r.venue\_Id, r.time

from customer c, reservation r

where c.customer\_Id = r.customer\_Id and c.customer\_Id = 'C1179'

order by r.venue\_Id;

Q2.4 List reservation information reserved after 1st February, 2016

select v.venue\_Id, v.Name, r.reservationDate, r.time, r.duration

from venue h, reservation r

where v.venue\_Id = r.hall\_Id and r.reservationDate > '01-Feb-2016'

order by v.venue\_Id;

Q2.5 List information of customers with first letter ‘A’

select \*

from customer

where fName like 'A%';

**5.3 Strategic queries**

Q3.1 List number of halls based on hall type

select type, count(name) as No\_Of\_venue

from venue

group by type;

Q3.2 Total number of reserved distinct venue

select h.name, count(p.reservation\_Id) as No\_Of\_times\_reserved

from venue h, reservation r, payment p

where v.venue\_Id = r.venue\_Id and r.reservation\_Id = p.reservation\_Id

group by v.name;

Q3.3 List average and total money earned by individual hall

select h.name, avg(p.amount) as Average\_earned, sum(p.amount) as total\_earned

from hall h, reservation r, payment p

where v.venue\_Id = r.venue\_Id and r.reservation\_Id = p.reservation\_Id

group by v.name;

Q3.4 List number of distinct hall reserved after 4.00pm

select v.venue\_Id, h.name, count(r.reservation\_Id) as no\_of\_time\_rented

from venue h, reservation r

where v.venue\_Id = r.venue\_Id and r.time > 16

group by v.venue\_Id, v.name

order by v.venue\_Id;

Q3.5 Total number of reservation process by individual staff

select s.staff\_Id, concat(s.fName, s.lName) as Name, count(r.reservation\_Id)

from staff s, reservation r

where s.staff\_Id = r.staff\_Id

group by s.staff\_Id, s.fName, s.lName

having count(r.reservation\_Id) > 1;

**5.4 User Views**

Q4.1 Create a view for customer

create view Venue\_list as select v.name, v.type, v.capacity, v.price, v.street,

v.city, e.type, e.availibility

from value h, equipment e

where v.venue\_Id = e.venue\_Id;

Q4.2 Create a view for middle management

create view reserved\_by as select c.fName, c.lName, c.telNo, c.street, c.city , s.fName as processed\_BY

from staff s, customer c, reservation r

where c.customer\_Id = r.customer\_Id;

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Customer\_id** | **fName** | **lName** | **sex** | **tel\_no** | **street** | **city** | **state** | **zipcode** |
| C1569 | Imtiaz | sakib | M | 0182874247 | jln sri gombak | gombak | selangor | 53100 |
| C1420 | Yang | hao | M | 0185683756 | wangsa maju | setapak | kuala lumpur | 54050 |
| C1430 | Jack | frost | M | 0115698346 | 28,gombak | gombak | selangor | 53200 |
| C1179 | Piggy | quene | F | 0115673284 | Chowkit | kuala lumpur | kuala lumpur | 50960 |
| C2497 | David | thomas | M | 0183294618 | 245 lane end | setapak | kuala lumpur | 54470 |

Q4.3 Create a view for top management

create view gross\_income as select v.name, avg(p.amount) as Average\_earned, sum(p.amount) as total\_earned

from venue v, reservation r, payment p

where v.venue\_Id = r.venue\_Id and r.reservation\_Id = p.reservation\_Id

group by v.name;

**6.0 RECORD LISTING**

**Customer\_Records**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C1968 | Alaine | jones | F | 0184193725 | 1, old road | sri petalin | kuala lumpur | 54230 |
| C2060 | Symon | lee | M | 0116274531 | 1002 north end | puchong | selangor | 54150 |
| C1325 | Mior | hanif | M | 0185274632 | taman anjaria | kota bharu | kelantan | 15400 |
| C1502 | Aina | fariha | F | 0113524862 | jln kampung laut | kelantan | kelantan | 15400 |
| C2055 | Nurul | hosna | F | 0185213524 | george town | penang | penang | 10300 |
| C1956 | Siti | najiha | F | 0112313526 | putra height | subang jaya | selangor | 40400 |
| C2585 | Afi | johari | F | 0185252564 | jln p5 putrajaya | wp putrajaya | putrajaya | 62200 |
| C1685 | Mohd | nawfal | M | 0185252654 | 17 tawaj idaman | ipoh | perak | 30010 |
| C1431 | Hazim | azizi | M | 0112586321 | jln teruntum | kuantan | pahang | 25000 |
| C2111 | Amalin | soleha | F | 0182541252 | persiaran semarak | cyberjaya | selangor | 63000 |

**Venue\_Records**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **venue\_id** | **venue\_name** | **venue\_type** | **capacity** | **price** | **street** | **city** | **state** | **zipcode** |
| H102 | Kl convention centre | convention centre | 500 | 280 | jln pinang | kuala lumpur | kuala lumpur | 50088 |
| H103 | sunway convention centre | convention centre | 430 | 290 | bandar sunway | Subangjaya | selangor | 47500 |
| H201 | carnival club | club house | 250 | 180 | jln 2/23d | Setapak | kuala lumpur | 53300 |
| H205 | the raintree | club house | 220 | 150 | jln wickham | Ampang | kuala lumpur | 55000 |
| H309 | vision kl | scouts and theatres | 660 | 200 | jln 1/13a | setia alam | shah alam | 25000 |
| H405 | lilnagkit cultural village | village hall | 150 | 120 | 7/a | wangsa maju | kuala lumpur | 54820 |

**Staff\_Records**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Staff\_id** | **fname** | **lname** | **sex** | **dob** | **position** | **salary** | **tel\_no** | **street** | **city** | **state** | **zipcode** |
| S1040 | john | white | M | 1/11/1965 | manager | 30000 | 0184236952 | 205 lane end | setapak | kuala lumpur | 54470 |
| S2506 | ann | beech | F | 10/10/1980 | assistant | 15000 | 0114521252 | 1, old road | sri petalin | kuala lumpur | 54230 |
| S1525 | David | ford | M | 24/03/1978 | supervisor | 18000 | 0185258563 | jln p5 putrajaya | wp putrajaya | putrajaya | 62200 |
| S1852 | Marry | howe | F | 19/02/1985 | assistant | 10000 | 0187478846 | persiaran semarak | cyberjaya | selangor | 63000 |
| S1134 | Abdul | galif | M | 20/05/1982 | manager | 24000 | 0112123652 | wangsa maju | setapak | kuala lumpur | 54050 |
| S1902 | Nabil | showki | M | 21/08/1988 | supervisor | 16000 | 0186936321 | putra height | subang  jaya | selangor | 40400 |

**Equipment\_Records**

|  |  |  |  |
| --- | --- | --- | --- |
| **equipment\_id** | **equipment\_type** | **availability** | **venue\_id** |
| E101 | bat | 800 | V102 |
| E103 | football | 60 | V103 |
| E105 | microphone | 10 | V309 |
| E106 | speaker | 20 | V309 |
| E108 | projector | 5 | V309 |
| E201 | Net | 60 | V201 |
| E107 | Hockey | 60 | V103 |
| E109 | Tenis Ball | 60 | V103 |

**Reservation\_Records**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **reservation\_id** | **reservation\_date** | **time** | **duration** | **customer\_id** | **staff\_id** | **venue\_id** |
| R1011 | 03/01/2017 | 18:00 | 4 | C1569 | S2506 | V102 |
| R1015 | 17/01/2017 | 20:00 | 3 | C1420 | S2506 | V102 |
| R1022 | 14/02/2017 | 15:00 | 5 | C1430 | S2506 | V102 |
| R1024 | 28/02/2017 | 18:00 | 2 | C1179 | S2506 | V103 |
| R1036 | 06/03/2017 | 19:00 | 3 | C2497 | S2506 | V103 |
| R1038 | 13/03/2017 | 20:00 | 4 | C1968 | S1525 | V103 |
| R1044 | 10/04/2017 | 15:00 | 3 | C2060 | S1525 | V201 |
| R1046 | 17/04/2017 | 18:00 | 2 | C1325 | S1525 | V201 |
| R1051 | 08/05/2017 | 22:00 | 2 | C1502 | S1525 | V201 |
| R1056 | 29/05/2017 | 16:00 | 3 | C2055 | S1525 | V205 |
| R1063 | 12/06/2017 | 20:00 | 4 | C1956 | S1852 | V205 |
| R1069 | 19/06/2017 | 19:00 | 5 | C2585 | S1852 | V205 |
| R1075 | 10/07/2017 | 16:00 | 6 | C1685 | S1852 | V309 |
| R1077 | 31/07/2017 | 20:00 | 3 | C1431 | S1852 | V309 |
| R1081 | 14/08/2017 | 22:00 | 2 | C2111 | S1852 | V309 |
| R1084 | 28/08/2017 | 19:00 | 4 | C1968 | S1902 | V405 |
| R1093 | 11/09/2017 | 20:00 | 3 | C1956 | S1902 | V405 |
| R1096 | 18/09/2017 | 15:00 | 4 | C2497 | S1902 | V405 |
| R1101 | 09/10/2017 | 18:00 | 5 | C1502 | S1902 | V103 |
| R1105 | 23/10/2017 | 20:00 | 4 | C1325 | S1902 | V201 |

**Payment\_Records**

|  |  |  |  |
| --- | --- | --- | --- |
| **payment\_id** | **date** | **amount** | **reservation\_id** |
| P00025 | 03/01/2017 | 840 | R1011 |
| P00028 | 17/01/2017 | 670 | R1015 |
| P00031 | 14/02/2017 | 110 | R1022 |
| P00037 | 28/02/2017 | 430 | R1024 |
| P00041 | 06/03/2017 | 630 | R1036 |
| P00054 | 13/03/2017 | 950 | R1038 |
| P00055 | 10/04/2017 | 820 | R1044 |
| P00059 | 17/04/2017 | 545 | R1046 |
| P00068 | 08/05/2017 | 600 | R1051 |
| P00075 | 29/05/2017 | 780 | R1056 |
| P00088 | 12/06/2017 | 1023 | R1063 |
| P00095 | 19/06/2017 | 1500 | R1069 |
| P00096 | 10-07-2017 | 1900 | R1075 |
| P00101 | 31-07-2017 | 750 | R1077 |
| P00125 | 14-08-2017 | 590 | R1081 |
| P00136 | 28-08-2017 | 1055 | R1084 |
| P00139 | 11-09-2017 | 900 | R1093 |
| P00150 | 18-09-2017 | 955 | R1096 |
| P00156 | 09-10-2017 | 1600 | R1101 |
| P00161 | 23-10-2017 | 1522 | R1105 |