

Project: Database Fundamentals  
Project Name: hotel database

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**Scenario** Consider the following set of requirements for a hotel booking database that is used to keep track of customers' booking local hotel needs a system that keeps track of its room reservation(first name,last name,room number, email , booking date, exit date , and id has unique value) A room can be of a particular type and a particular price

1-Each Room have (room type,Number of guest ,room number , floor , price per night)

2- Employee have (first name, last name , phone number, email ,id, gender)

3- Book reservation have(service name, time , room number, number of days , total price)

4 - Restaurant reservation have( NameOf mail, room number ,day ,date , total price)

5- each employee manage many rooms and many employees responsibility for service book and restaurant reservations

6-Each room reservation can reserve many room

7-many room reservation can reserve many restaurant reservation and services boo

## Room

RoomType	NumberOfGuest	<u>RoomNumber</u>	Floor	PricePerNight
Double room	Two adults	100	2	\$50
Double room	Two adults	101	2	\$50
Double room with full sea view	Two adults	102	3	\$90
Double room with partial sea view	Two adults	103	3	\$65
One-Bedroom Suite	(One adults) OR (Two adults) OR (Two adults and one child)	104	4	\$90
One-Bedroom Suite	(One adults) OR (Two adults) OR (Two adults and one child)	105	4	\$90
One-Bedroom Suite with full sea view	(One adults) OR (Two adults) OR (Two adults and one child)	106	5	\$130
One-Bedroom Suite with partial sea view	(One adults) OR (Two adults) OR (Two adults and one child)	107	5	\$105
Two-Bedroom Suite	(One adults) OR (Two adults) OR (Two adults and one child)	108	4	\$180
Two-Bedroom Suite with full sea view	(One adults) OR (Two adults) OR (Two adults and one child)	109	4	\$180

## Room reservation

FirstName	LastName	RoomNumber	<a href="#">E-mail</a>	BookingDate	ExitDate	<u>ID</u>
Mona	Alrashdi	100	<a href="mailto:monaajuh@gmail.com">monaajuh@gmail.com</a>	01-02-2024	13-02-2024	1122364291
Shatha	Alrashdi	101	<a href="mailto:Shatha653@gmail.com">Shatha653@gmail.com</a>	01-02-2024	14-04-2024	1123584992
Mohammed	Alqahtani	102	<a href="mailto:Selll331@gmail.com">Selll331@gmail.com</a>	03-02-2023	14-02-2024	1126597316
Saleh	Alshehri	103	<a href="mailto:moohad@gmail.com">moohad@gmail.com</a>	04-02-2024	17-02-2024	1173311973
Amani	Alzubaidi	104	<a href="mailto:Amaniii11@gmail.com">Amaniii11@gmail.com</a>	04-03-2024	17-03-2024	1184674784
Salman	Alkhalidi	105	<a href="mailto:Salman3@gmail.com">Salman3@gmail.com</a>	05-03-2024	20-03-2024	1187319031
Awad	Alrashdi	106	<a href="mailto:Awad22a@gmail.com">Awad22a@gmail.com</a>	11-09-2024	29-09-2024	1187467473
Aryam	Alabdali	107	<a href="mailto:Arrm7@gmail.com">Arrm7@gmail.com</a>	11-09-2024	24-09-2024	1197477466
Mona	Alshehri	108	<a href="mailto:Waddsh2@gmail.com">Waddsh2@gmail.com</a>	18-09-2024	29-09-2024	1197584774
Ahmed	Alotaibi	109	<a href="mailto:Ahmm7@gmail.com">Ahmm7@gmail.com</a>	02-10-2024	10-10-2024	1198478488

## Employee

FirstName	LastName	PhoneNumber	<u>E-mail</u>	<u>ID</u>	gender
Ahmed	Alkhalidi	0500563966	<a href="mailto:Hmmmgs5@gmail.com">Hmmmgs5@gmail.com</a>	1125835863	male
Mona	Alzubaidi	0500602474	<a href="mailto:Mm5638@gmail.com">Mm5638@gmail.com</a>	1127579530	female
Mohammed	Alshehri	0500367363	<a href="mailto:Mohh326@gmail.com">Mohh326@gmail.com</a>	1142563904	male
Seba	Alqahtani	0573673738	<a href="mailto:See3145@gmail.com">See3145@gmail.com</a>	1143749947	female
Zenah	Alrashdi	0568300771	<a href="mailto:Zenah490@gmail.com">Zenah490@gmail.com</a>	1152783084	female
Abdullah	Alotaibi	0584640094	<a href="mailto:Abdull3@gmail.com">Abdull3@gmail.com</a>	1153673940	male
Shiban	Alharbi	0573673473	<a href="mailto:Seeba4@gmail.com">Seeba4@gmail.com</a>	1165384902	male
Yasin	Alrashdi	0500746376	<a href="mailto:Yass471@gmail.com">Yass471@gmail.com</a>	1173673807	male
Afnan	Alrashdi	0557836737	<a href="mailto:Afnnn4@gmail.com">Afnnn4@gmail.com</a>	1183673883	female
Tala	Alharbi	0545373773	<a href="mailto:Tall11@gmail.com">Tall11@gmail.com</a>	1184784799	female

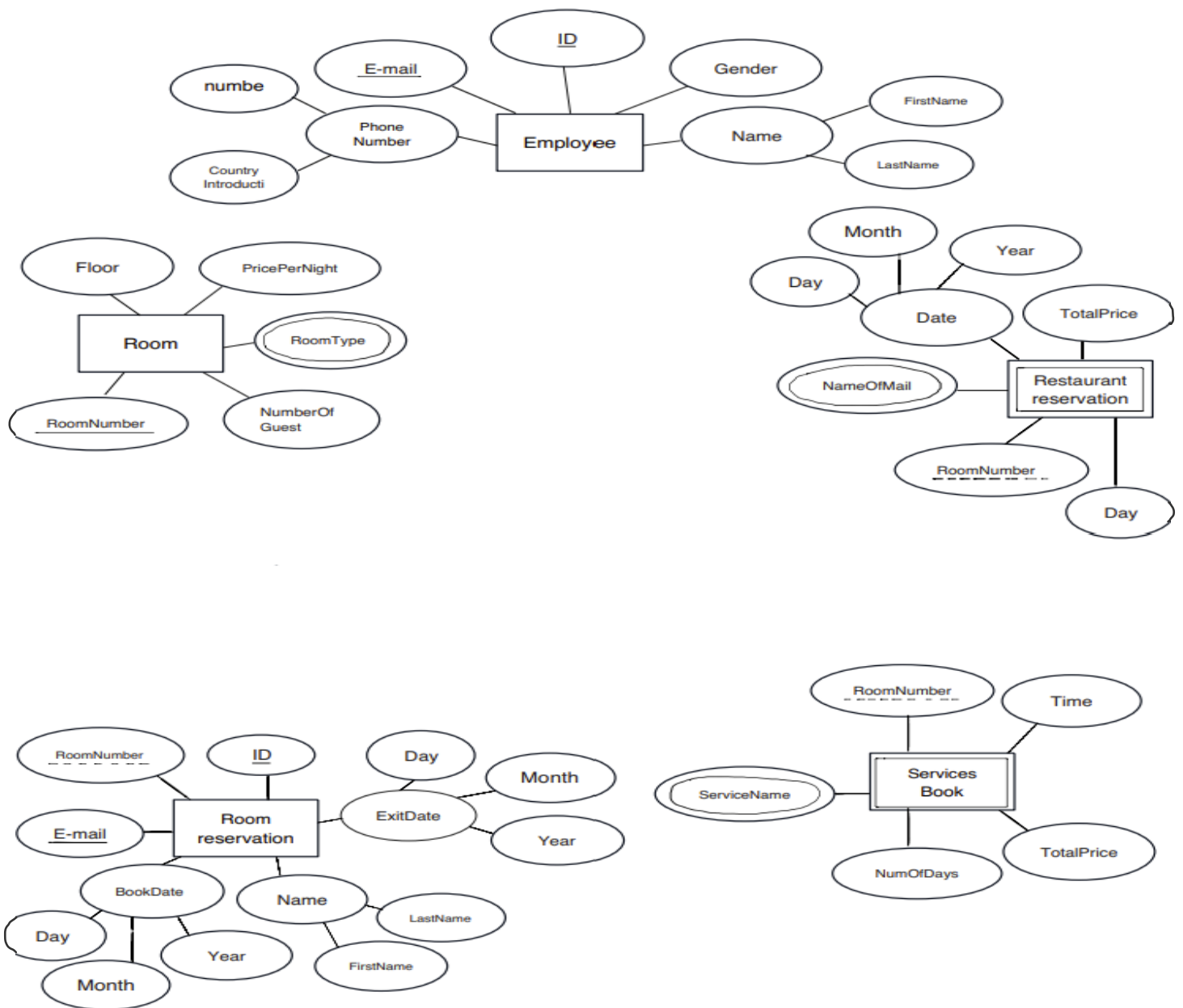
## Services reservation

ServiceName	time	RoomNumber	NumOfDays	TotalPrice
Washing clothes	3:30 Am	100	2	\$20
Food delivery	4:39 Pm	101	4	\$20
Cleaning	3:38 Pm	102	5	\$0
Ironing clothes	3:37 Am	103	4	\$40
Wi-Fi	3:36 Pm	104	6	\$ 0
Wi-Fi	3:35 Am	105	7	\$0
Cleaning	7:34 Pm	106	3	\$0
Washing clothes	5:33 Am	107	1	\$10
Wi-Fi	2:32 Pm	108	5	\$0
Food delivery	9:31 Am	109	1	\$5

Restaurant reservation

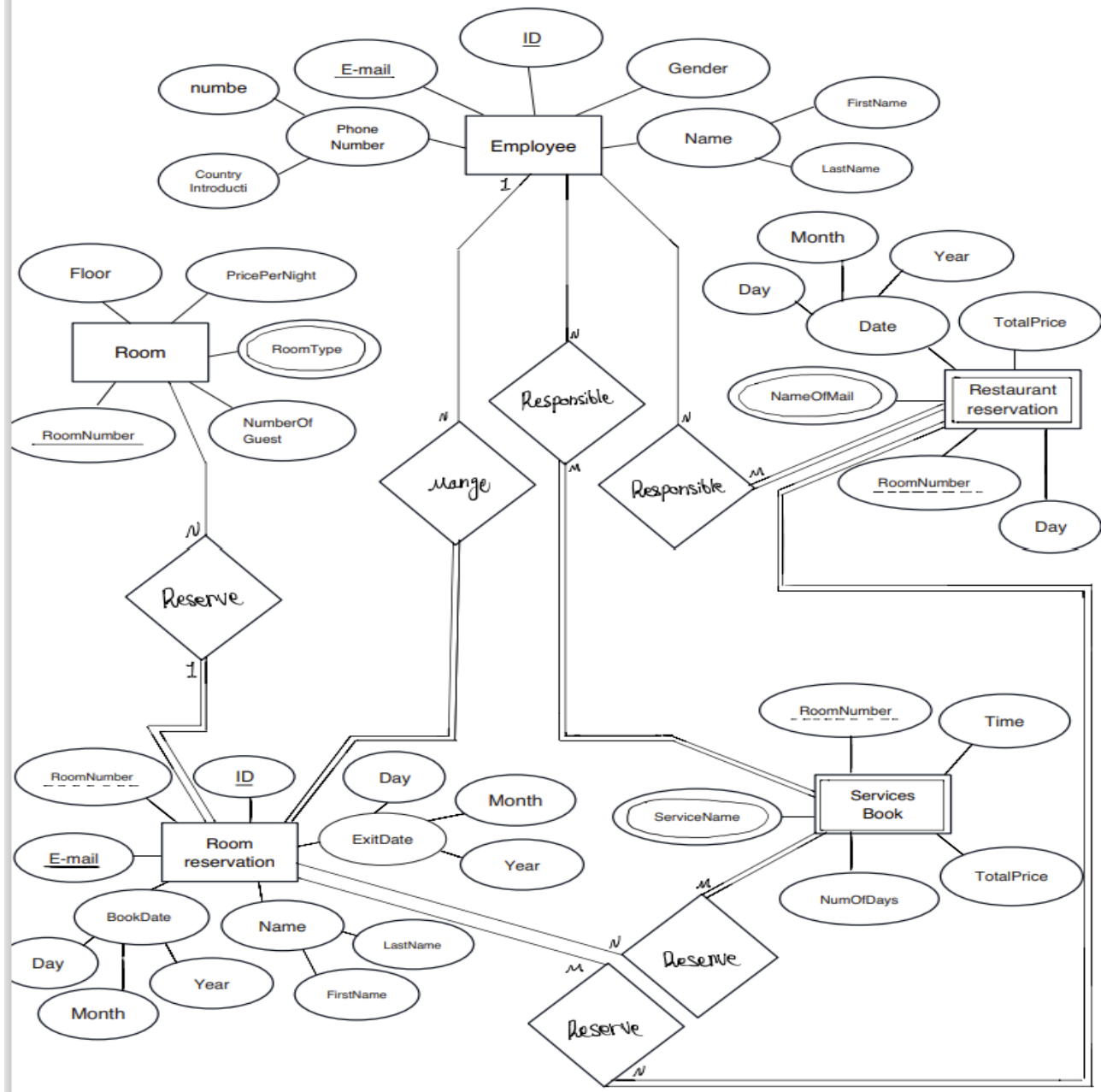
NameOfMael	RoomNumber	Day	Date	Total Price
Classic margherita pizza	100	Thurs	01-02-2024	\$45
Cheeseburger sandwich	101	Thurs	01-02-2024	\$30
Crispi chicken	102	Thurs	01-02-2024	\$35
Hot dog sandwich	103	Thurs	01-02-2024	\$50
Club sandwich	104	Fri	02-02-2024	\$40
Classic margherita pizza	105	Fri	02-02-2024	\$45
Cheeseburger sandwich	106	Sat	03-02-2024	\$30
Crispi chicken	107	Sun	04-02-2024	\$35
Hot dog sandwich	108	Mon	05-02-2024	\$50
Club sandwich	109	Mon	05-02-2024	\$40

ER diagram without relationship:

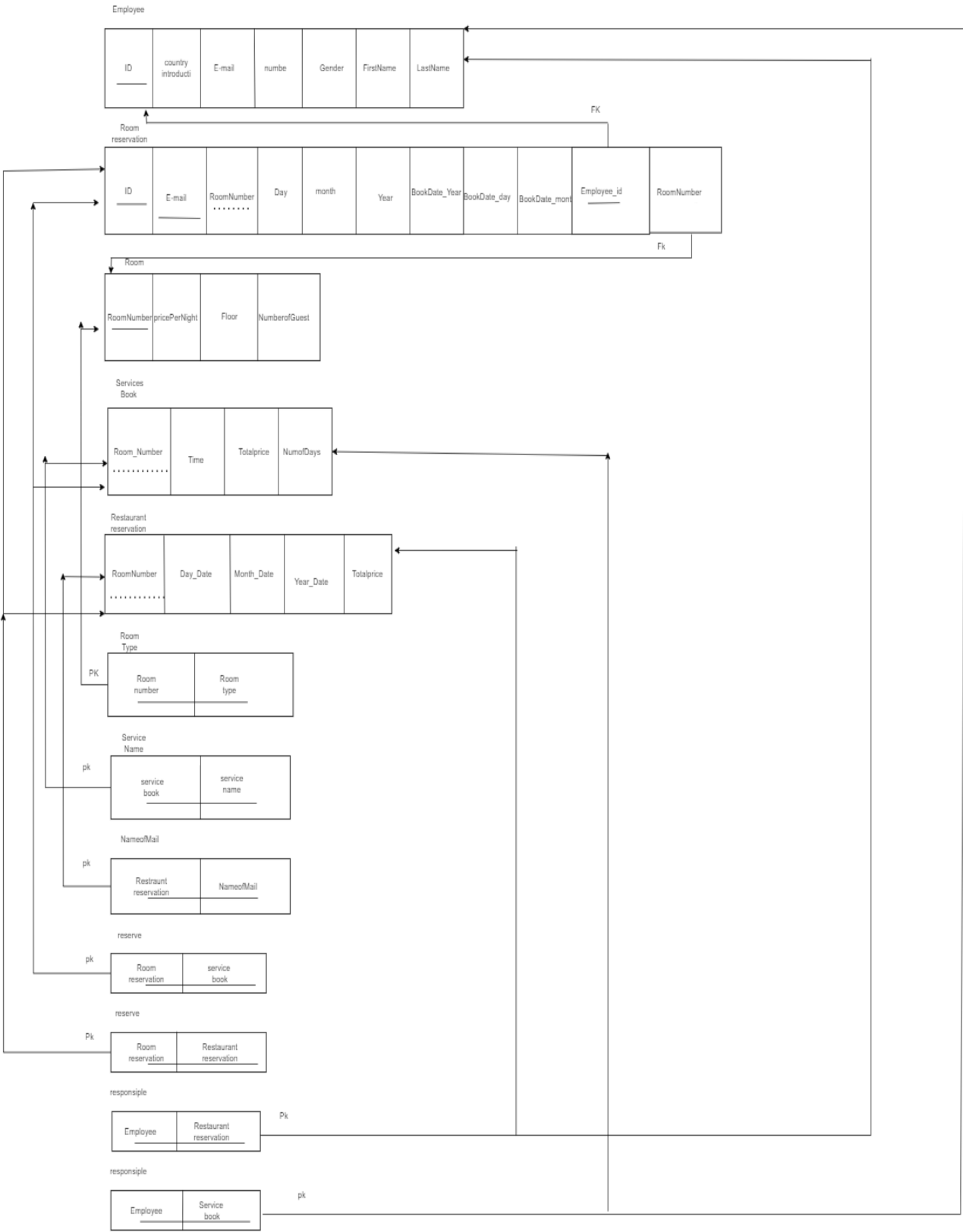




ER diagram with relationship:



Relational mapping for ER diagram:



SQL:

```
CREATE TABLE Room(  
    RoomType TEXT,  
    NumberOfGuest TEXT,  
    RoomNumber INTEGER,  
    Floor INTEGER,  
    PricePerNight varchar(100),  
    CONSTRAINT Room_PK PRIMARY KEY (RoomNumber)  
);
```

```
INSERT INTO Room (RoomType, NumberOfGuest,RoomNumber, Floor,  
PricePerNight)
```

```
VALUES
```

```
    ('Double room', 'Two adults',100, 2, '50$'),  
    ('Double room', 'Two adults',101, 2, '50$'),  
    ('Double room with full sea view', 'Two adults',102, 3, '90$'),  
    ('Double room with partial sea view', 'Two adults',103, 3, '65$'),  
    ('One-Bedroom Suite ', '(One adults) OR (Two adults) OR (Two adults and one  
child)',104, 4, '90$'),  
    ('One-Bedroom Suite', '(One adults) OR (Two adults) OR (Two adults and one  
child)',105, 4, '90$'),  
    ('One-Bedroom Suite with full sea view', '(One adults) OR (Two adults) OR (Two  
adults and one child)',106, 5, '130$'),  
    ('One-Bedroom Suite with partial sea view ', '(One adults) OR (Two adults) OR  
(Two adults and one child)', 107, 5, '105$'),  
    ('Two-Bedroom Suite ', '(One adults) OR (Two adults) OR (Two adults and one  
child)', 108, 4, '180$'),  
    ('Two-Bedroom Suite with full sea view', '(One adults) OR (Two adults) OR (Two  
adults and one child)', 109, 4, '180$');  
SELECT*FROM Room;
```

```
SELECT (PricePerNight),RoomNumber  
FROM Room  
GROUP BY RoomNumber;
```

```

CREATE TABLE RoomReservation (
    FirstName TEXT,
    LastName TEXT,
    RoomNumber INTEGER,
    Email TEXT,
    BookingDate DATE,
    ExitDate DATE,
    ID INTEGER ,
    CONSTRAINT RoomReservation_PK PRIMARY KEY (ID),
    CONSTRAINT RoomReservation_FK FOREIGN KEY (RoomNumber) REFERENCES
Room(RoomNumber)
);
INSERT INTO RoomReservation (FirstName, LastName, RoomNumber, Email,
BookingDate, ExitDate,ID)
VALUES
('Mona', 'Alrashdi', 100, 'monaajuh@gmail.com', '2024-02-01', '2024-02-
13',1122364291),
('Shatha', 'Alrashdi', 101, 'Shatha653@gmai.com', '2024-02-01', '2024-04-
14',1123584992),
('Mohammed', 'Alqahtani', 102, 'Selll331@gmai.com', '2023-02-03', '2024-02-
14',1126597316),
('Saleh', 'Alshehri', 103, 'moohad@gmail.com', '2024-02-04', '2024-02-
17',1173311973),
( 'Amani', 'Alzubaidi', 104, 'Amaniii11@gmail.com', '2024-03-04', '2024-03-
17',1184674784),
('Salman','Alkhalidi', 105,' Salman3@gmaal.com', '2024-03-05', '2024-03-
20',1187319031),
('Awad', 'Alrashdi', 106, 'Awad22a@gmail.com', '2024-09-11', '2024-09-
29',1187467473 ),
( 'Aryam', 'Alabdali', 107, 'Arrm7@gmail.com', '2024-09-11', '2024-09-
24',1197477466),
('Mona', 'Alshehri', 108, 'Waddsh2@gmail.com', '2024-09-18', '2024-09-
29',1197584774),
( 'Ahmed', 'Alotaibi', 109, 'Ahmm7@gmail.com', '2024-10-02', '2024-10-
10',1198478488);
SELECT * FROM RoomReservation;

```

```
SELECT FirstName
FROM RoomReservation
ORDER BY FirstName DESC;
```

```
CREATE TABLE EMPLOYEE (
    FirstName TEXT,
    LastName TEXT,
    PhoneNumber INTEGER,
    Email TEXT,
    ID INTEGER,
    Gender TEXT,
    CONSTRAINT EMPLOYEE_PK PRIMARY KEY (ID)
);
```

```
INSERT INTO EMPLOYEE ( FirstName, LastName, PhoneNumber, Email,ID, Gender)
VALUES
    ('Ahmed', 'Alkhalidi', 0500563966, 'Hmmmgs5@gmail.com',1125835863, 'male'),
    ('Mona', 'Alzubaidi', 0500602474, 'Mm5638@gmail.com',1127579530, 'female'),
    ( 'Mohammed', 'Alshehri', 0500367363, 'Mohh326@gmail.com',1142563904,
'male'),
    ( 'Seba', 'Alqahtani', 0573673738, 'See3145@gmail.com',1143749947, 'female'),
    ( 'Zenah', 'Alrashdi', 0568300771, 'Zenah490@gmail.com',1152783084, 'female'),
    ( 'Abdullah', 'Alotaibi', 0584640094, 'Abdull3@gmail.com',1153673940, 'male'),
    ('Shiban', 'Alharbi', 0573673473, 'Seeba4@gmail.com',1165384902, 'male'),
    ( 'Yasin', 'Alrashdi', 0500746376, 'Yass471@gmail.com',1173673807, 'male'),
    ( 'Afnan', 'Alrashdi', 0557836737, 'Afnnn4@gmail.com',1183673883, 'female'),
    ( 'Tala', 'Alharbi', 0545373773, 'Tall11@gmail.com',1184784799, 'female');
```

```
SELECT * FROM EMPLOYEE;
```

```
CREATE TABLE Servicesreservation(
    ServicesName TEXT,
    Time varchar(100),
    RoomNumber INTEGER,
    NumOfDays INTEGER,
```

```

TotalPrice TEXT,
CONSTRAINT Servicesreservation_FK FOREIGN KEY(RoomNumber) REFERENCES
Room(RoomNumber)
);

INSERT INTO
Servicesreservation(ServicesName,Time,RoomNumber,NumOfDays,TotalPrice)
VALUES
('Washing clothes', '3:30 AM' , 100 , 2 , '$20' ),
('Food delivery' , '4:39 PM' , 101 , 4 , '$20' ),
('Cleaning' , '3:38 PM' , 102 , 5 , '$0' ),
('Ironing clothes', '3:37 AM' , 103 , 4 , '$40' ),
('wi-Fi' , '3:36 PM' , 104 , 6 , '$0' ),
('wi-Fi' , '3:35 AM' , 105 , 7 , '$0' ),
('cleaning' , '7:34 PM' , 106 , 3 , '$0' ),
('Washing clothes', '5:33 AM' , 107 , 1 , '$10' ),
('wi-Fi' , '2:32 PM' , 108 , 5 , '$0' ),
('Food delivery' , '9:31 AM' , 109 , 1 , '$5' );
SELECT * FROM Servicesreservation;

```

```

CREATE TABLE RestaurantReservation(
NameOfMeal TEXT,
RoomNumber INTEGER,
Day TEXT,
Date TEXT,
TotalPrice TEXT,
CONSTRAINT RestaurantReservation_FK FOREIGN KEY(RoomNumber) REFERENCES
Room(RoomNumber)
);

```

```

INSERT INTO
RestaurantReservation(NameOfMeal,RoomNumber,Day,DATE,TotalPrice)
VALUES
('Classic margherita Pizza' ,100,'Thurs','01-02-2024','$45 '),
('Cheeseburger Sandwish' ,101,'Thurs','01-02-2024','$30'),
('Crispi chicken',102,'Thurs','01-02-2024','$35 '),
('HotDog Sandwish' ,103,'Thurs','01-02-2024','$50'),

```

```
('club Sandwich' ,104,'Fri' , '02-02-2024','$40'),  
( 'Classic margherita Pizza' ,105,'Fri' , '02-02-2024','$45'),  
( 'Cheeseburger Sandwich' ,106,'Sat' , '03-02-2024','$30'),  
( 'Crispi chicken' ,107,'Sun' , '04-02-2024','$35'),  
( 'HotDog Sandwich' ,108,'Mon' , '05-02-2024','$50'),  
( 'club Sandwich' ,109,'Mon' , '05-02-2024','$40');
```

```
SELECT * FROM RestaurantReservation;
```

```
SELECT  
RoomReservation.FirstName,Servicesreservation.ServicesName,RestaurantReservat  
ion.NameOfMeal  
FROM ((RoomReservation  
INNER JOIN Servicesreservation  
ON RoomReservation.RoomNumber=Servicesreservation.RoomNumber)  
INNER JOIN RestaurantReservation  
ON RoomReservation.RoomNumber=RestaurantReservation.RoomNumber);
```

Output:

```
+
| RoomType | NumberOfGuest
| RoomNumber | Floor | PricePerNight |
+-----+-----+-----+
| Double room | Two adults
| 100 | 2 | 50$ |
| Double room | Two adults
| 101 | 2 | 50$ |
| Double room with full sea view | Two adults
| 102 | 3 | 90$ |
| Double room with partial sea view | Two adults
| 103 | 3 | 65$ |
| One-Bedroom Suite | (One adults) OR (Two adults)
OR (Two adults and one child) | 104 | 4 | 90$ |
| One-Bedroom Suite | (One adults) OR (Two adults)
OR (Two adults and one child) | 105 | 4 | 90$ |
| One-Bedroom Suite with full sea view | (One adults) OR (Two adults)
OR (Two adults and one child) | 106 | 5 | 130$ |
| One-Bedroom Suite with partial sea view | (One adults) OR (Two adults)
OR (Two adults and one child) | 107 | 5 | 105$ |
| Two-Bedroom Suite | (One adults) OR (Two adults)
OR (Two adults and one child) | 108 | 4 | 180$ |
| Two-Bedroom Suite with full sea view | (One adults) OR (Two adults)
OR (Two adults and one child) | 109 | 4 | 180$ |

-----+-----+-----+
+-----+-----+
| PricePerNight | RoomNumber |
+-----+-----+
| 50$ | 100 |
| 50$ | 101 |
| 90$ | 102 |
| 65$ | 103 |
| 90$ | 104 |
| 90$ | 105 |
| 130$ | 106 |
| 105$ | 107 |
| 180$ | 108 |
| 180$ | 109 |
+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+
| FirstName | LastName | RoomNumber | Email | BookingDate |
ExitDate | ID |
+-----+-----+-----+-----+-----+
+-----+-----+
```



Mona	Alrashdi		100	monaaajuh@gmail.com	2024-02-01	
2024-02-13	1122364291					
Shatha	Alrashdi		101	Shatha653@gmail.com	2024-02-01	
2024-04-14	1123584992					
Mohammed	Alqahtani		102	Sell11331@gmail.com	2023-02-03	
2024-02-14	1126597316					
Saleh	Alshehri		103	moohad@gmail.com	2024-02-04	
2024-02-17	1173311973					
Amani	Alzubaidi		104	Amaniii11@gmail.com	2024-03-04	
2024-03-17	1184674784					
Salman	Alkhalidi		105	Salman3@gmail.com	2024-03-05	
2024-03-20	1187319031					
Awad	Alrashdi		106	Awad22a@gmail.com	2024-09-11	
2024-09-29	1187467473					
Aryam	Alabdali		107	Arrm7@gmail.com	2024-09-11	
2024-09-24	1197477466					
Mona	Alshehri		108	Waddsh2@gmail.com	2024-09-18	
2024-09-29	1197584774					
Ahmed	Alotaibi		109	Ahmm7@gmail.com	2024-10-02	
2024-10-10	1198478488					
+-----+-----+-----+-----+-----+-----+						
-----+-----+						
+-----+						
FirstName						
+-----+						
Shatha						
Salman						
Saleh						
Mona						
Mona						
Mohammed						
Awad						
Aryam						
Amani						
Ahmed						
+-----+						
+-----+-----+-----+-----+-----+-----+						

FirstName	LastName	PhoneNumber	Email	ID	Gender
Ahmed	Alkhalidi	500563966	Hmmmgs5@gmail.com	1125835863	male
Mona	Alzubaidi	500602474	Mm5638@gmail.com	1127579530	female
Mohammed	Alshehri	500367363	Mohh326@gmail.com	1142563904	male
Seba	Alqahtani	573673738	See3145@gmail.com	1143749947	female
Zenah	Alrashdi	568300771	Zenah490@gmail.com	1152783084	female
Abdullah	Alotaibi	584640094	Abdull13@gmail.com	1153673940	male
Shiban	Alharbi	573673473	Seeba4@gmail.com	1165384902	male
Yasin	Alrashdi	500746376	Yass471@gmail.com	1173673807	male
Afnan	Alrashdi	557836737	Afnnn4@gmail.com	1183673883	female
Tala	Alharbi	545373773	Tall111@gmail.com	1184784799	female

ServicesName	Time	RoomNumber	NumOfDays	TotalPrice
Washing clothes	3:30 AM	100	2	\$20
Food delivery	4:39 PM	101	4	\$20
Cleaning	3:38 PM	102	5	\$0
lroning clothes	3:37 AM	103	4	\$40
wi-Fi	3:36 PM	104	6	\$0
wi-Fi	3:35 AM	105	7	\$0
cleaning	7:34 PM	106	3	\$0
Washing clothes	5:33 AM	107	1	\$10
wi-Fi	2:32 PM	108	5	\$0
Food delivery	9:31 AM	109	1	\$5

NameOfMeal	RoomNumber	Day	Date	TotalPrice
Classic margherita Pizza	100	Thurs	01-02-2024	\$45
Cheeseburger Sandwish	101	Thurs	01-02-2024	\$30
Crispi chicken	102	Thurs	01-02-2024	\$35
HotDog Sandwish	103	Thurs	01-02-2024	\$50
club Sandwish	104	Fri	02-02-2024	\$40
Classic margherita Pizza	105	Fri	02-02-2024	\$45
Cheeseburger Sandwish	106	Sat	03-02-2024	\$30
Crispi chicken	107	Sun	04-02-2024	\$35
HotDog Sandwish	108	Mon	05-02-2024	\$50
club Sandwish	109	Mon	05-02-2024	\$40

FirstName	ServicesName	NameOfMeal
Mona	Washing clothes	Classic margherita Pizza
Shatha	Food delivery	Cheeseburger Sandwish
Mohammed	Cleaning	Crispi chicken
Saleh	Ironing clothes	HotDog Sandwish
Amani	wi-Fi	club Sandwish
Salman	wi-Fi	Classic margherita Pizza
Awad	cleaning	Cheeseburger Sandwish
Aryam	Washing clothes	Crispi chicken
Mona	wi-Fi	HotDog Sandwish
Ahmed	Food delivery	club Sandwish

```

1 CREATE TABLE Room(
2     RoomType TEXT,
3     NumberOfGuest TEXT,
4     RoomNumber INTEGER,
5     Floor INTEGER,
6     PricePerNight varchar(100),
7     CONSTRAINT Room_PK PRIMARY KEY (RoomNumber)
8 );
9
10 INSERT INTO Room (RoomType, NumberOfGuest,RoomNumber, Floor, PricePerNight)
11 VALUES
12     ('Double room', 'Two adults',100, 2, '50$'),
13     ('Double room', 'Two adults',101, 2, '50$'),
14     ('Double room with full sea view', 'Two adults',102, 3, '90$'),
15     ('Double room with partial sea view', 'Two adults',103, 3, '65$'),
16     ('One-Bedroom Suite ', '(One adults) OR (Two adults) OR (Two adults and one child)',104, 3, '120$'),
17     ('One-Bedroom Suite ', '(One adults) OR (Two adults) OR (Two adults and one child)',105, 3, '120$'),
18     ('One-Bedroom Suite with full sea view', '(One adults) OR (Two adults) OR (Two adults and one child)',106, 3, '150$'),
19     ('One-Bedroom Suite with partial sea view ', '(One adults) OR (Two adults) OR (Two adults and one child)',107, 3, '150$'),
20     ('Two-Bedroom Suite ', '(One adults) OR (Two adults) OR (Two adults and one child)',108, 3, '180$'),
21     ('Two-Bedroom Suite with full sea view', '(One adults) OR (Two adults) OR (Two adults and one child)',109, 3, '180$'),
22 SELECT*FROM Room;
23
24 SELECT (PricePerNight),RoomNumber
25 FROM Room
26 GROUP BY RoomNumber;
27
28 CREATE TABLE RoomReservation (
29     FirstName TEXT,
30     LastName TEXT,
31     RoomNumber INTEGER,
32     Email TEXT,
33     BookingDate DATE,
34     ExitDate DATE,
35     ID INTEGER ,
36     CONSTRAINT RoomReservation_PK PRIMARY KEY (ID),
37     CONSTRAINT RoomReservation_FK FOREIGN KEY (RoomNumber) REFERENCES Room(RoomNumber)
38 );
39 INSERT INTO RoomReservation (FirstName, LastName, RoomNumber, Email, BookingDate, ExitDate, ID)
40 VALUES

```

```

40 VALUES
41     ('Mona', 'Alrashdi', 100, 'monaajuh@gmail.com', '2024-02-01', '2024-02-13', 11223),
42     ('Shatha', 'Alrashdi', 101, 'Shatha653@gmail.com', '2024-02-01', '2024-04-14', 11223),
43     ('Mohammed', 'Alqahtani', 102, 'Selll331@gmail.com', '2023-02-03', '2024-02-14', 11223),
44     ('Saleh', 'Alshehri', 103, 'moohad@gmail.com', '2024-02-04', '2024-02-17', 117331),
45     ('Amani', 'Alzubaidi', 104, 'Amaniii11@gmail.com', '2024-03-04', '2024-03-17', 117331),
46     ('Salman', 'Alkhalidi', 105, 'Salman3@gmail.com', '2024-03-05', '2024-03-20', 11874),
47     ('Awad', 'Alrashdi', 106, 'Awad22a@gmail.com', '2024-09-11', '2024-09-29', 11874),
48     ('Aryam', 'Alabdali', 107, 'Arrm7@gmail.com', '2024-09-11', '2024-09-24', 119747),
49     ('Mona', 'Alshehri', 108, 'Waddsh2@gmail.com', '2024-09-18', '2024-09-29', 119758),
50     ('Ahmed', 'Alotaibi', 109, 'Ahmm7@gmail.com', '2024-10-02', '2024-10-10', 119847);
51 SELECT * FROM RoomReservation;
52
53 SELECT FirstName
54 FROM RoomReservation
55 ORDER BY FirstName DESC;
56
57 CREATE TABLE EMPLOYEE (
58     FirstName TEXT,
59     LastName TEXT,
60     PhoneNumber INTEGER,
61     Email TEXT,
62     ID INTEGER,
63     Gender TEXT,
64     CONSTRAINT EMPLOYEE_PK PRIMARY KEY (ID)
65 );
66
67 INSERT INTO EMPLOYEE ( FirstName, LastName, PhoneNumber, Email, ID, Gender)
68 VALUES
69     ('Ahmed', 'Alkhalidi', 0500563966, 'Hmmmgs5@gmail.com', 1125835863, 'male'),
70     ('Mona', 'Alzubaidi', 0500602474, 'Mm5638@gmail.com', 1127579530, 'female'),
71     ('Mohammed', 'Alshehri', 0500367363, 'Mohh326@gmail.com', 1142563904, 'male'),
72     ('Seba', 'Alqahtani', 0573673738, 'See3145@gmail.com', 1143749947, 'female'),
73     ('Zenah', 'Alrashdi', 0568300771, 'Zenah490@gmail.com', 1152783084, 'female'),
74     ('Abdullah', 'Alotaibi', 0584640094, 'Abdull3@gmail.com', 1153673940, 'male'),
75     ('Shiban', 'Alharbi', 0573673473, 'Seeba4@gmail.com', 1165384902, 'male'),
76     ('Yasin', 'Alrashdi', 0500746376, 'Yass471@gmail.com', 1173673807, 'male'),
77     ('Afnan', 'Alrashdi', 0557836737, 'Afnnn4@gmail.com', 1183673883, 'female'),
78     ('Tala', 'Alharbi', 0545373773, 'Tall11@gmail.com', 1184784799, 'female');
79

```

```

82 CREATE TABLE Servicesreservation(
83 ServicesName TEXT,
84 Time varchar(100),
85 RoomNumber INTEGER,
86 NumOfDays INTEGER,
87 TotalPrice TEXT,
88 CONSTRAINT Servicesreservation_FK FOREIGN KEY(RoomNumber) REFERENCES Room(RoomNum
89 );
90 INSERT INTO Servicesreservation(ServicesName,Time,RoomNumber,NumOfDays,TotalPrice)
91 VALUES
92 ('Washing clothes', '3:30 AM' , 100 , 2 , '$20' ),
93 ('Food delivery' , '4:39 PM' , 101 , 4 , '$20' ),
94 ('Cleaning' , '3:38 PM' , 102 , 5 , '$0' ),
95 ('Ironing clothes', '3:37 AM' , 103 , 4 , '$40' ),
96 ('wi-Fi' , '3:36 PM' , 104 , 6 , '$0' ),
97 ('wi-Fi' , '3:35 AM' , 105 , 7 , '$0' ),
98 ('cleaning' , '7:34 PM' , 106 , 3 , '$0' ),
99 ('Washing clothes', '5:33 AM' , 107 , 1 , '$10' ),
100 ('wi-Fi' , '2:32 PM' , 108 , 5 , '$0' ),
101 ('Food delivery' , '9:31 AM' , 109 , 1 , '$5' );
102 SELECT * FROM Servicesreservation;
103
104 CREATE TABLE RestaurantReservation(
105 NameOfMeal TEXT,
106 RoomNumber INTEGER,
107 Day TEXT,
108 Date TEXT,
109 TotalPrice TEXT,
110 CONSTRAINT RestaurantReservation_FK FOREIGN KEY(RoomNumber) REFERENCES Room(RoomNu
111 );
112
113 INSERT INTO RestaurantReservation(NameOfMeal,RoomNumber,Day,DATE,TotalPrice)
114 VALUES
115 ('Classic margherita Pizza' ,100,'Thurs','01-02-2024','$45' ),
116 ('Cheeseburger Sandwich' ,101,'Thurs','01-02-2024','$30'),
117 ('Crispi chicken',102,'Thurs','01-02-2024','$35' ),
118 ('HotDog Sandwich' ,103,'Thurs','01-02-2024','$50'),
119 ('club Sandwich' ,104,'Fri' , '02-02-2024','$40'),
120 ('Classic margherita Pizza' ,105,'Fri' , '02-02-2024','$45'),
121

```

```

113 INSERT INTO RestaurantReservation(NameOfMeal,RoomNumber,Day,DATE,TotalPrice)
114 VALUES
115 ('Classic margherita Pizza' ,100,'Thurs','01-02-2024','$45 '),
116 ('Cheeseburger Sandwish' ,101,'Thurs','01-02-2024','$30'),
117 ('Crispi chicken',102,'Thurs','01-02-2024','$35 '),
118 ('HotDog Sandwish' ,103,'Thurs','01-02-2024','$50'),
119 ('club Sandwish' ,104,'Fri' , '02-02-2024','$40'),
120 ('Classic margherita Pizza' ,105,'Fri' , '02-02-2024','$45'),
121 ('Cheeseburger Sandwish' ,106,'Sat' , '03-02-2024','$30'),
122 ('Crispi chicken' ,107,'Sun' , '04-02-2024','$35'),
123 ('HotDog Sandwish' ,108,'Mon' , '05-02-2024','$50'),
124 ('club Sandwish' ,109,'Mon' , '05-02-2024','$40');
125
126 SELECT * FROM RestaurantReservation;
127
128 SELECT RoomReservation.FirstName,Servicesreservation.ServicesName,RestaurantReserv
129 FROM ((RoomReservation
130 INNER JOIN Servicesreservation
131 ON RoomReservation.RoomNumber=Servicesreservation.RoomNumber)
132 INNER JOIN RestaurantReservation
133 ON RoomReservation.RoomNumber=RestaurantReservation.RoomNumber):

```

Output:

RoomType	NumberOfGuest		RoomNumber	Floor	PricePerNight
Double room	Two adults		100	2	50\$
Double room	Two adults		101	2	50\$
Double room	Two adults		102	3	90\$
Double room with full sea view	Two adults		103	3	65\$
Double room with partial sea view	Two adults	OR (Two adults) OR (Two adults and one child)	104	4	90\$
One-Bedroom Suite	(One adults) OR (	OR (Two adults) OR (Two adults and one child)	105	4	90\$
One-Bedroom Suite	(One adults) OR (	OR (Two adults) OR (Two adults and one child)	106	5	130\$
One-Bedroom Suite with full sea view	(One adults) OR (	OR (Two adults) OR (Two adults and one child)	107	5	105\$
One-Bedroom Suite with partial sea view	(One adults) OR (	OR (Two adults) OR (Two adults and one child)	108	4	180\$
Two-Bedroom Suite	(One adults) OR (	OR (Two adults) OR (Two adults and one child)	109	4	180\$
Two-Bedroom Suite with full sea view	(One adults) OR (				

PricePerNight	RoomNumber
50\$	100
50\$	101
90\$	102
65\$	103
90\$	104
90\$	105
130\$	106
105\$	107
180\$	108
180\$	109

FirstName	LastName	RoomNumber	Email	BookingDate	ExitDate	ID
Mona	Alrashdi	100	monaajuh@gmail.com	2024-02-01	2024-02-13	1122364291
Shatha	Alrashdi	101	Shatha653@gmail.com	2024-02-01	2024-04-14	1123584992
Mohammed	Alqahtani	102	Selll331@gmail.com	2023-02-03	2024-02-14	1126597316
Saleh	Alshehri	103	moohad@gmail.com	2024-02-04	2024-02-17	1173311973
Amani	Alzubaidi	104	Amaniiii1@gmail.com	2024-03-04	2024-03-17	1184674784
Salman	Alkhalidi	105	Salman3@gmail.com	2024-03-05	2024-03-20	1187319031
Awad	Alrashdi	106	Awad22a@gmail.com	2024-09-11	2024-09-29	1187467473
Aryam	Alabdali	107	Arrm7@gmail.com	2024-09-11	2024-09-24	1197477466
Mona	Alshehri	108	Waddsh2@gmail.com	2024-09-18	2024-09-29	1197584774
Ahmed	Alotaibi	109	Ahmm7@gmail.com	2024-10-02	2024-10-10	1198478488

FirstName
Shatha
Salman
Saleh
Mona
Mona
Mohammed
Awad
Aryam
Amani
Ahmed

FirstName	LastName	PhoneNumber	Email	ID	Gender
Ahmed	Alkhalidi	500563966	Hmmmgs5@gmail.com	1125835863	male
Mona	Alzubaidi	500602474	Mm5638@gmail.com	1127579530	female
Mohammed	Alshehri	500367363	Mohh326@gmail.com	1142563904	male
Seba	Alqahtani	573673738	See3145@gmail.com	1143749947	female
Zenah	Alrashdi	568300771	Zenah490@gmail.com	1152783084	female
Abdullah	Alotaibi	584640094	Abdull3@gmail.com	1153673940	male
Shiban	Alharbi	573673473	Seeba4@gmail.com	1165384902	male
Yasin	Alrashdi	500746376	Yass471@gmail.com	1173673807	male
Afnan	Alrashdi	557836737	Afnnn4@gmail.com	1183673883	female
Tala	Alharbi	545373773	Tall11@gmail.com	1184784799	female

ServicesName	Time	RoomNumber	NumOfDays	TotalPrice
Washing clothes	3:30 AM	100	2	\$20
Food delivery	4:39 PM	101	4	\$20
Cleaning	3:38 PM	102	5	\$0
Ironing clothes	3:37 AM	103	4	\$40
wi-Fi	3:36 PM	104	6	\$0
wi-Fi	3:35 AM	105	7	\$0
cleaning	7:34 PM	106	3	\$0
Washing clothes	5:33 AM	107	1	\$10
wi-Fi	2:32 PM	108	5	\$0
Food delivery	9:31 AM	109	1	\$5

NameOfMeal	RoomNumber	Day	Date
Classic margherita Pizza	100	Thurs	01-02-2024
Cheeseburger Sandwich	101	Thurs	01-02-2024
Crispi chicken	102	Thurs	01-02-2024
HotDog Sandwich	103	Thurs	01-02-2024
club Sandwich	104	Fri	02-02-2024
Classic margherita Pizza	105	Fri	02-02-2024
Cheeseburger Sandwich	106	Sat	03-02-2024
Crispi chicken	107	Sun	04-02-2024
HotDog Sandwich	108	Mon	05-02-2024
club Sandwich	109	Mon	05-02-2024

FirstName	ServicesName	NameOfMeal
Mona	Washing clothes	Classic margherita Pizza
Shatha	Food delivery	Cheeseburger Sandwich
Mohammed	Cleaning	Crispi chicken
Saleh	Ironing clothes	HotDog Sandwich
Amani	wi-Fi	club Sandwich
Salman	wi-Fi	Classic margherita Pizza
Awad	cleaning	Cheeseburger Sandwich
Aryam	Washing clothes	Crispi chicken
Mona	wi-Fi	HotDog Sandwich
Ahmed	Food delivery	club Sandwich