

Hotel Databases .Group : 5

الرقم الجامعي :	الطالبات :
439009739	ثراء عامر الشريف
439008073	رهام محمد باخشوين
439006592	ريم هاشم الشريف
439016214	سالمه سالم الهذلي

Tasks of Phase 1 :	سالمه سالم الهذلي	ريم هاشم الشريف	رهام محمد باخشوين	ثراء عامر الشريف
Description :	*	*	*	*
Chen's Notation → Entites and attributes :		*		
Chen's Notation → Relationship :			*	
UML Notation → Entites and attributes :				*
UML Notation → Relationship :	*			

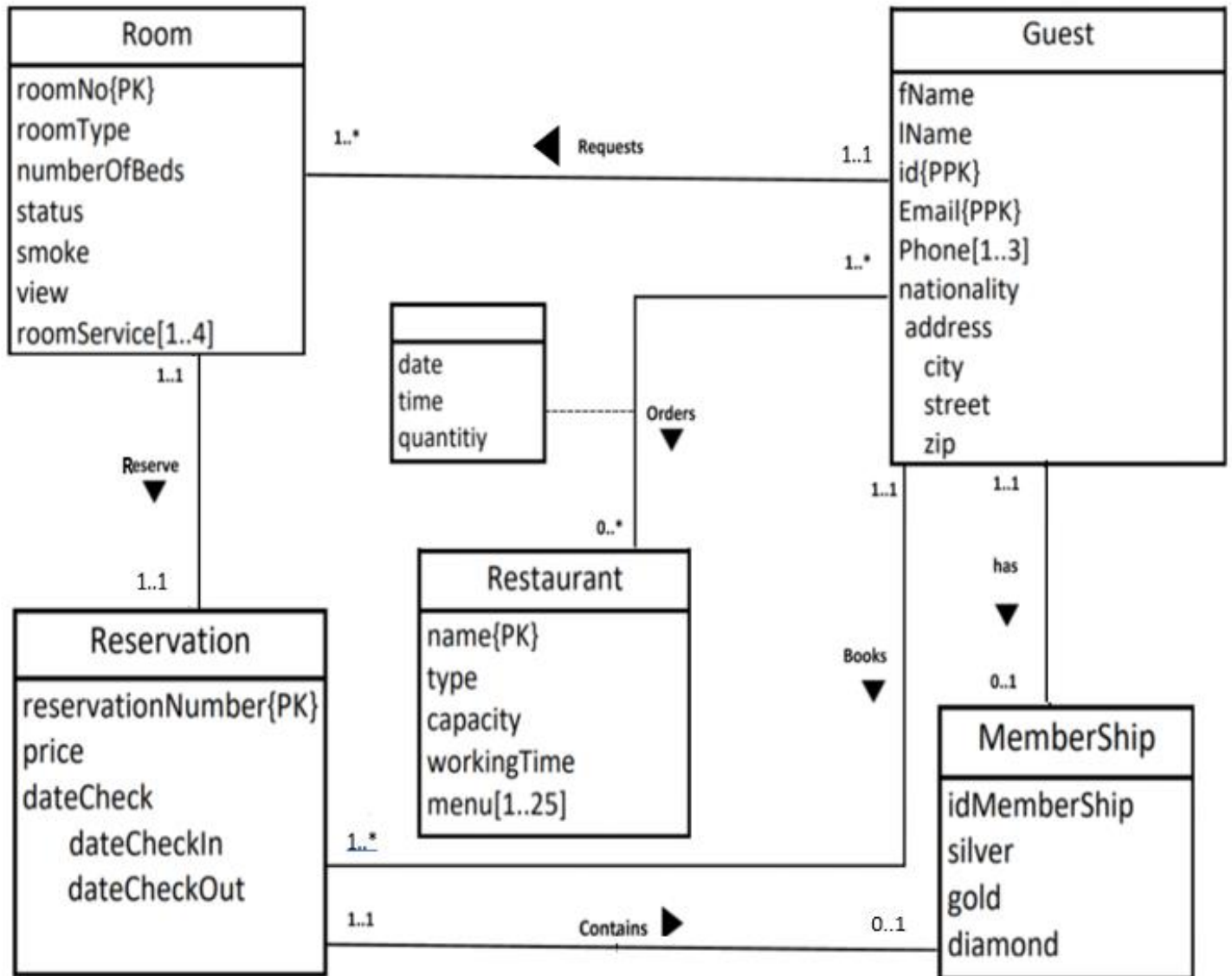
Phase 1 :

Description of Hotel Databases :

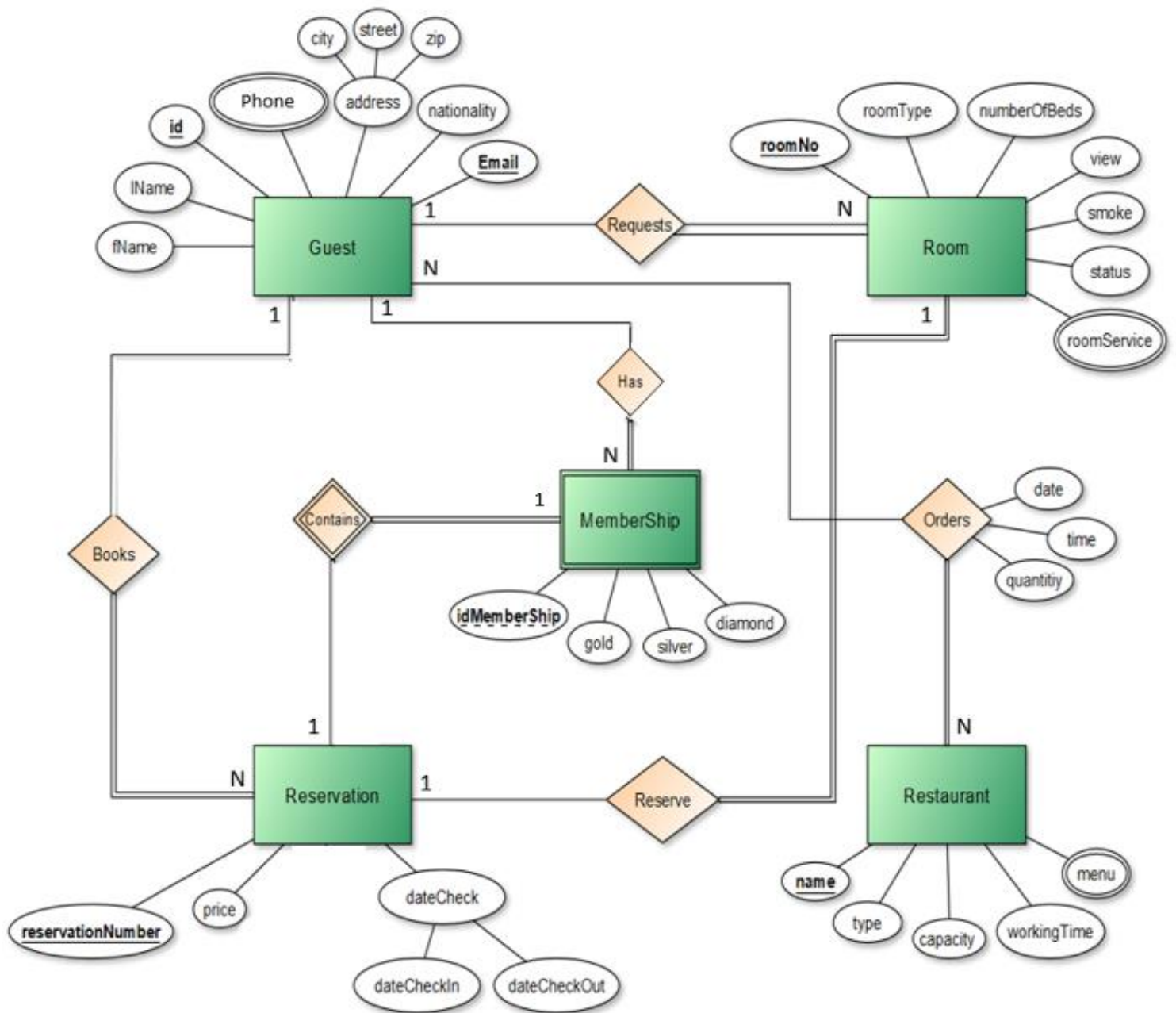
The hotel plans to create a database system, to keep track of the information about its guests and the other services.

- The identifier for a Guest is fName , lName , id , 1-3 Phone , address (that contains city , street , zip) , Nationality , and Email .
- The main service that the hotel offers its supplies rooms to the guests .
- The identifier for a room is a roomNo , room type , number of Beds , 1-4 room service , status , view , and smoke .
- Each guest can Request for one or more room , and the room may be Requested by one guest , and the hotel must track the current state of each room if it is empty or not .
- Each Reservations has a reservation number , date check (contains date check in , date check out) , and price .
- Each Reservations may Reserve for one and only one Room or may not , each room has reserved must belong to one and only one Reservation .
- Reservations can Contain Membership .
- Each Reservation may contain 1 or 0 Memberships, and each Membership must contain only one Reservation.
- Each membership has an id membership , silver , gold , and diamond .
- Each Guest can have a Memberships , The Membership must belong to exactly one Guest , and the Guest may have a Membership , and may be not.
- Guest may Book one or more of a Reservations , each Reservations must belong to exactly one guest .
- The identifier for a restaurant is a name , type , capacity (of restaurant) , working time , and 1-25 menu .
- Each Guest may Order one or more orders from the Restaurant , or may not order anything .
- Each order in the Restaurant must belong to one or more Guest.
- An attributes associated with each Guest and Restaurant are date , time , and quantity.

UML Notation Diagram :



Chen's Notation Diagram :



Phase 2 :

Tasks of Phase 2 :	سالمه سالم الهذلي	ريم هاشم الشريف	رهام محمد باخشوين	ثراء عامر الشريف
STEP 1: Mapping of Regular Entity Types	*	*	*	*
STEP 2: Mapping of Weak Entity Types	*	*	*	*
STEP 3: Mapping of Binary 1:1 Relationship Types	*	*	*	*
STEP 4: Mapping of Binary 1:M Relationship Types	*	*	*	*
STEP 5: Mapping of Binary M:N Relationship Types	*	*	*	*
Step 6: Mapping of Multivalued Attributes	*	*	*	*
Step 7: Mapping of N-ary Relationship Types	*	*	*	*
Normalization : 1NF	*	*	*	*
Normalization : 2NF	*	*	*	*
Normalization : 3NF	*	*	*	*

Relational Schema :

STEP 1: Mapping of Regular Entity Types

Guest

fName	lName	<u>id</u>	city	street	zip	nationality	<u>Email</u>
-------	-------	-----------	------	--------	-----	-------------	--------------

Room

<u>roomNo</u>	roomType	numberOfBeds	view	smoke	status
---------------	----------	--------------	------	-------	--------

Reservation

<u>reservationNumber</u>	price	dateCheckIn	dateCheckOut
--------------------------	-------	-------------	--------------

Restaurant

<u>Name</u>	type	capacity	workingTime
-------------	------	----------	-------------

STEP 2: Mapping of Weak Entity Types

MemberShip

<u>reservationNumber</u>	<u>guestID</u>	<u>guestEmail</u>	<u>idMemberShip</u>	gold	silver	diamond
--------------------------	----------------	-------------------	---------------------	------	--------	---------

STEP 3: Mapping of Binary 1:1 Relationship Types

- Reserve (Room , Reservation) :

Reservation

<u>reservationNumber</u>	price	idMemberShip	dateCheckIn	dateCheckOut	roomNo
--------------------------	-------	--------------	-------------	--------------	--------

- Contains (Reservation , MemberShip) : Done in Step 2 .

MemberShip

<u>reservationNumber</u>	<u>guestID</u>	<u>guestEmail</u>	<u>idMemberShip</u>	gold	silver	diamond
--------------------------	----------------	-------------------	---------------------	------	--------	---------

STEP 4: Mapping of Binary 1:M Relationship Types

- Requests (Guest , Room) :

Room

<u>roomNo</u>	roomType	numberOfBeds	view	smoke	status	guestID	guestEmail
---------------	----------	--------------	------	-------	--------	---------	------------

- Books (Guest , Reservation) :

Reservation

<u>reservationNumber</u>	price	dateCheckIn	dateCheckOut	roomNo	guestID	guestEmail
--------------------------	-------	-------------	--------------	--------	---------	------------

- Has (Guest , MemberShip) : Done in Step 2 .

MemberShip

<u>reservationNumber</u>	<u>guestID</u>	<u>guestEmail</u>	<u>idMemberShip</u>	gold	silver	diamond
--------------------------	----------------	-------------------	---------------------	------	--------	---------

STEP 5: Mapping of Binary M:N Relationship Types

- Orders (Guest , Restaurant) :

GuestOrder

<u>guestID</u>	<u>guestEmail</u>	<u>restaurantName</u>	date	time	quantity
----------------	-------------------	-----------------------	------	------	----------

Step 6: Mapping of Multivalued Attributes

GuestPhone

<u>guestID</u>	<u>guestEmail</u>	<u>phone</u>
----------------	-------------------	--------------

RoomService

<u>roomNo</u>	<u>roomService</u>
---------------	--------------------

RestaurantMenu

<u>restaurantName</u>	<u>menu</u>
-----------------------	-------------

Step 7: Mapping of N-ary Relationship Types

None

FINAL MAPPING :

Guest

fName	lName	<u>id</u>	city	street	zip	nationality	<u>Email</u>
-------	-------	-----------	------	--------	-----	-------------	--------------

GuestPhone

<u>guestID</u>	<u>guestEmail</u>	<u>phone</u>
----------------	-------------------	--------------

GuestOrder

<u>guestID</u>	<u>guestEmail</u>	<u>restaurantName</u>	date	time	quantity
----------------	-------------------	-----------------------	------	------	----------

Room

<u>roomNo</u>	roomType	numberOfBeds	view	smoke	status	<u>guestID</u>	<u>guestEmail</u>
---------------	----------	--------------	------	-------	--------	----------------	-------------------

RoomService

<u>roomNo</u>	<u>roomService</u>
---------------	--------------------

Reservation

<u>reservationNumber</u>	price	dateCheckIn	dateCheckOut	<u>roomNo</u>	<u>guestID</u>	<u>guestEmail</u>
--------------------------	-------	-------------	--------------	---------------	----------------	-------------------

Restaurant

<u>name</u>	type	capacity	workingTime
-------------	------	----------	-------------

RestaurantMenu

<u>restaurantName</u>	<u>menu</u>
-----------------------	-------------

MemberShip

<u>reservationNumber</u>	<u>guestID</u>	<u>guestEmail</u>	<u>idMemberShip</u>	gold	silver	diamond
--------------------------	----------------	-------------------	---------------------	------	--------	---------

Normalization :

Guest (fName , lName , id, city , street , zip , nationality , Email)

1NF (No Multivalued Attributes)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

Guest (id , Email , fName , lName , nationality , city)

GuestAddress (city , street , zip)

GuestPhone (guestID , guestEmail , phone)

1NF (No Multivalued Attributes)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

GuestOrder (guestID , guestEmail , restaurantName , date , time , quantity)

1NF (No Multivalued Attributes)

GuestOrder (guestID , guestEmail , restaurantName , quantity)

GuestOrderDate (guestID , guestEmail , restaurantName , date , time)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

Room (roomNo , roomType , numberOfBeds , view , smoke , status , guestID , guestEmail)

1NF (No Multivalued Attributes)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

Room (roomNo , roomType , status)

RoomType (roomType , numberOfBeds , view , smoke)

RoomStatus (status , guestID , guestEmail)

RoomService (roomNo , roomService)

1NF (No Multivalued Attributes)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

Reservation(reservationNumber ,price ,dateCheckIn , dateCheckOut , roomNo , guestID , guestEmail)

1NF (No Multivalued Attributes)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

Reservation (reservationNumber , roomNo , guestID , guestEmail)

DateCheck (guestID , guestEmail , dateCheckIn , dateCheckOut)

RoomPrice (roomNo , price)

Restaurant (Name , type , capacity , workingTime)

1NF (No Multivalued Attributes)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

Restaurant (Name , type)

RestaurantType (type , capacity , workingTime)

RestaurantMenu (restaurantName , menu)

1NF (No Multivalued Attributes)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

MemberShip (reservationNumber , guestID , guestEmail , idMemberShip , gold , silver , diamond)

1NF (No Multivalued Attributes)

2NF (No Partial Dependency)

3NF (No Transitive Dependency)

Phase 3 :

Tasks of Phase 3 :	سالمه سالم الهذلي	ريم هاشم الشريف	رهام محمد باخشوين	ثراء عامر الشريف
CREATE SCHEMA,CREATE TABLE	*	*	*	*
INSERT command	*	*	*	*
UPDATE command	*	*	*	*
DELETE command	*	*	*	*
WHERE command	*	*	*	*
GROUP BY command	*	*	*	*
HAVING command	*	*	*	*
ORDER BY command	*	*	*	*
Subqueries command	*	*	*	*
join operations command	*	*	*	*

1 • CREATE SCHEMA Hotel ;

Guest :

```
3 • CREATE TABLE Guest(  
4     ID          VARCHAR(20) NOT NULL,  
5     Email       VARCHAR(20) NOT NULL,  
6     FName      VARCHAR(45)  NULL,  
7     LName      VARCHAR(45)  NULL,  
8     Nationality VARCHAR(20)  NULL,  
9     City       VARCHAR(15)  NULL,  
10    CONSTRAINT Guest_PK PRIMARY KEY (ID,Email),  
11    CONSTRAINT Guest_FK FOREIGN KEY (City) REFERENCES GuestAddress(City)ON DELETE CASCADE  
12 );  
13  
14
```

```
18  
19 • INSERT INTO guest (ID, Email, FName, LName, Nationality, City)  
20 VALUES ('1939756833', 'moh@ hotmail.com', 'mohammed', 'ahmed', 'egyption', 'cairo');  
21 • INSERT INTO guest (ID, Email, FName, LName, Nationality, City)  
22 VALUES ('6757868111', 'sara@gmail.com', 'sara', 'ali', 'emirates', 'dubai');  
23 • INSERT INTO guest (ID, Email, FName, LName, Nationality, City)  
24 VALUES ('1257768745', 'fahd@gmail.com', 'fahd', 'yasir', 'saudi', 'makkah');  
25 • INSERT INTO guest (ID, Email, FName, LName, Nationality, City)  
26 VALUES ('1246465641', 'omar@hotmail.com', 'omar', 'faisal', 'saudi', 'jeddah');  
27 • INSERT INTO guest (ID, Email, FName, LName, Nationality, City)  
28 VALUES ('1276833444', 'mona@gmail.com', 'mona', 'hamza', 'saudi', 'riyadh');  
29  
30  
31 • SELECT *  
32 FROM guest;
```

Result Grid						
Filter Rows:						
Edit:						
Export/Import:						
Wrap Cell Content:						
ID	Email	FName	LName	Nationality	City	
1246465641	omar@hotmail.com	omar	faisal	saudi	jeddah	
1257768745	fahd@gmail.com	fahd	yasir	saudi	makkah	
1276833444	mona@gmail.com	mona	hamza	saudi	riyadh	
1939756833	moh@ hotmail.com	mohammed	ahmed	egyption	cairo	
6757868111	sara@gmail.com	sara	ali	emirates	dubai	
NULL	NULL	NULL	NULL	NULL	NULL	


```

35 • SELECT COUNT(ID) AS 'Number Of Guest', Nationality
36 FROM guest
37 GROUP BY Nationality;

```

Result Grid		
	Number Of Guest	Nationality
▶	3	saudi
	1	egyption
	1	emirates

```

39
40 • SELECT g.ID,FName,restaurantName,quantity
41 FROM guest g, guestorder c
42 WHERE g.ID=c.guestID
43 ORDER BY FName DESC;

```

Result Grid				
	ID	FName	restaurantName	quantity
▶	6757868111	sara	Crown Room Brunch	2meals
	1246465641	omar	Sheerwater Breakfast	1meal
	1276833444	mona	ENO Market & Pizzeria	2meals
	1939756833	mohammed	Serëa	1meal
	1257768745	fahd	Sun Deck	3meals

```

45
46 • select FName
47 from Guest
48 order by FName desc;

```

Result Grid	
	FName
▶	sara
	omar
	mona
	mohammed
	fahd

```

400 • SELECT FName, LName
401 FROM guest
402 WHERE ID=(SELECT guestID
403           FROM guestorderdate
404           WHERE guestID='1939756833' AND restaurantName='Sun Deck');
405
406

```

Result Grid		
	FName	LName
	mohammed	ahmed

```

3 • DELETE FROM guest
4 WHERE ID='6757868111';
5
6

```

Result Grid

ID	Email	FName	LName	Nationality	City
1246465641	omar@hotmail.com	omar	faisal	saudi	jeddah
1257768745	fahd@gmail.com	fahd	yasir	saudi	makkah
1276833444	mona@gmail.com	mona	hamza	saudi	riyadh
1939756833	moh@hotmail.com	mohammed	ahmed	egyption	cairo
NULL	NULL	NULL	NULL	NULL	NULL

guest 3 guest 4 ✕

Output

Action Output

#	Time	Action
94	21:29:27	DELETE FROM guest WHERE ID='6757868111'
95	21:29:27	SELECT * FROM db1_project.guest LIMIT 0, 1000

GuestAddress :

```




59 • CREATE TABLE GuestAddress(
60     City          VARCHAR(15) NOT NULL,
61     Street        VARCHAR(20) NULL,
62     Zip           INT(7) NULL,
63     CONSTRAINT GuestAddress_PK PRIMARY KEY (City));
64

```

```

64
65 • INSERT INTO guestaddress (City, Street, Zip)
66     VALUES ('cairo', 'Al-azhar', '78912');
67 • INSERT INTO guestaddress (City, Street, Zip)
68     VALUES ('dubai', 'El-shikh zayed', '33445');
69 • INSERT INTO guestaddress (City, Street, Zip)
70     VALUES ('makkah', 'Al-marg', '6432');
71 • INSERT INTO guestaddress (City, Street, Zip)
72     VALUES ('jeddah', 'hira', '7371');
73 • INSERT INTO guestaddress (City, Street, Zip)
74     VALUES ('riyadh', 'alia', '4118');
75
76
77 • SELECT *
78     FROM guestaddress;

```

Result Grid			
Filter Rows: <input type="text"/>			
Edit:    Exp			
	City	Street	Zip
▶	cairo	Al-azhar	78912
	dubai	El-shikh zayed	33445
	jeddah	hira	7371
	makkah	Al-marg	6432
	riyadh	alia	4118
*	NULL	NULL	NULL

GuestPhone :

```
82
83 • CREATE TABLE guestphone (
84     guestID      VARCHAR(20) NOT NULL,
85     guestEmail    VARCHAR(20) NOT NULL,
86     phone        VARCHAR(15) NOT NULL,
87     CONSTRAINT guestphone_PK PRIMARY KEY (guestID, guestEmail, phone),
88     CONSTRAINT guestphone_FK1 FOREIGN KEY (guestID) REFERENCES Guest (ID) ,
89     CONSTRAINT guestphone_FK2 FOREIGN KEY (guestEmail) REFERENCES Guest (Email));
90





90
91 • INSERT INTO guestphone (guestID, guestEmail, phone)
92     VALUES ('1939756833', 'moh@ hotmail.com', '+966 554437959');
93 • INSERT INTO guestphone (guestID, guestEmail, phone)
94     VALUES ('6757868111', 'sara@gmail.com', '+966 509948664');
95 • INSERT INTO guestphone (guestID, guestEmail, phone)
96     VALUES ('1257768745', 'fahd@gmail.com', '+966 566788345');
97 • INSERT INTO guestphone (guestID, guestEmail, phone)
98     VALUES ('1246465641', 'omar@hotmail.com', '+966 509988811');
99 • INSERT INTO guestphone (guestID, guestEmail, phone)
100    VALUES ('1276833444', 'mona@gmail.com', '+966 577099666');
101
102
103 • SELECT *
104     FROM guestphone;
```

105

Result Grid			Filter Rows:	Edit:	Export/Import:
guestID	guestEmail	phone			
1257768745	fahd@gmail.com	+966 566788345			
1939756833	moh@ hotmail.com	+966 554437959			
1276833444	mona@gmail.com	+966 577099666			
1246465641	omar@hotmail.com	+966 509988811			
6757868111	sara@gmail.com	+966 509948664			
NULL	NULL	NULL			

```
111 • UPDATE guestphone
112     SET phone='+966 450743011'
113     WHERE guestID='1276833444';
114
115 • SELECT *
116     FROM guestphone;
```

<

Result Grid   Filter Rows: Edit:  

	guestID	guestEmail	phone
	1257768745	fahd@gmail.com	+966 566788345
	1939756833	moh@hotmail.com	+966 554437959
	1276833444	mona@gmail.com	+966 450743011
	1246465641	omar@hotmail.com	+966 509988811
▶	6757868111	sara@gmail.com	+966 509948664
*	NULL	NULL	NULL

guestphone 103

GuestOrder :

```
113
114 • CREATE TABLE GuestOrder (
115     guestID VARCHAR(20) NOT NULL,
116     guestEmail VARCHAR(20) NOT NULL,
117     restaurantName VARCHAR(45) NOT NULL,
118     quantitiy VARCHAR(15) NULL,
119     CONSTRAINT GuestOrder_PK PRIMARY KEY (guestID,guestEmail,restaurantName),
120     CONSTRAINT guestID FOREIGN KEY (guestID) REFERENCES Guest (ID) ,
121     CONSTRAINT guestEmail FOREIGN KEY (guestEmail) REFERENCES Guest (Email),
122     CONSTRAINT restaurantName FOREIGN KEY (restaurantName) REFERENCES restaurant (name)
123 );
124
126 • INSERT INTO guestorder (guestID, guestEmail, restaurantName, quantitiy)
127 VALUES ('1939756833', 'moh@ hotmail.com', 'Serĕa', '1meal');
128 • INSERT INTO guestorder (guestID, guestEmail, restaurantName, quantitiy)
129 VALUES ('6757868111', 'sara@gmail.com', 'Crown Room Brunch', '2meals');
130 • INSERT INTO guestorder (guestID, guestEmail, restaurantName, quantitiy)
131 VALUES ('1257768745', 'fahd@gmail.com', 'Sun Deck', '3meals');
132 • INSERT INTO guestorder (guestID, guestEmail, restaurantName, quantitiy)
133 VALUES ('1246465641', 'omar@hotmail.com', 'Sheerwater Breakfast', '1meal');
134 • INSERT INTO guestorder (guestID, guestEmail, restaurantName, quantitiy)
135 VALUES ('1276833444', 'mona@gmail.com', 'ENO Market & Pizzeria', '2meals');
136
137 • SELECT *
138 FROM guestorder ;
139
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Con
guestID	guestEmail	restaurantName	quantitiy	
1246465641	omar@hotmail.com	Sheerwater Breakfast	1meal	
1257768745	fahd@gmail.com	Sun Deck	3meals	
1276833444	mona@gmail.com	ENO Market & Pizzeria	2meals	
1939756833	moh@ hotmail.com	Serĕa	1meal	
6757868111	sara@gmail.com	Crown Room Brunch	2meals	
NULL	NULL	NULL	NULL	

143

144 • **UPDATE** guestorder

145 **SET** quantity='3meal'




146 **WHERE** guestID='1246465641';

147

148 • **SELECT** *

149 **FROM** guestorder ;







150

Result Grid				
Filter Rows: <input type="text"/>				
Edit:    Export/Import				
	guestID	guestEmail	restaurantName	quantity
▶	1246465641	omar@hotmail.com	Sheerwater Breakfast	3meal
	1257768745	fahd@gmail.com	Sun Deck	3meals
	1276833444	mona@gmail.com	ENO Market & Pizzeria	2meals
	1939756833	moh@hotmail.com	Serëa	1meal
	6757868111	sara@gmail.com	Crown Room Brunch	2meals
*	NULL	NULL	NULL	NULL

Guestorderdate

```
146
147 • CREATE TABLE guestorderdate (
148     guestID          varchar(20) NOT NULL,
149     guestEmail        varchar(20) NOT NULL,
150     restaurantName    varchar(45) NOT NULL,
151     date              varchar(20) NOT NULL,
152     time              varchar(20) DEFAULT NULL,
153     PRIMARY KEY (guestID,guestEmail,restaurantName,date),
154     CONSTRAINT guestorderdate_FK1 FOREIGN KEY (guestID) REFERENCES Guest (ID) ,
155     CONSTRAINT guestorderdate_FK2 FOREIGN KEY (guestEmail) REFERENCES Guest (Email),
156     CONSTRAINT guestorderdate_FK3 FOREIGN KEY (restaurantName) REFERENCES restaurant (name));
157

154 • INSERT INTO guestorderdate
155     VALUES ('1939756833', 'moh@ hotmail.com', 'Sun Deck', '11-11-2020', '4:00 PM');
156 • INSERT INTO guestorderdate
157     VALUES ('6757868111', 'sara@gmail.com', 'ENO Market & Pizzeria', '5-4-2020', '3:15 PM');
158 • INSERT INTO guestorderdate
159     VALUES ('1257768745', 'fahd@gmail.com', 'Sheerwater Breakfast', '7-9-2020', '9:10 AM');
160 • INSERT INTO guestorderdate
161     VALUES ('1246465641', 'omar@hotmail.com', 'Serëa', '13-11-2020', '11:00 AM');
162 • INSERT INTO guestorderdate
163     VALUES ('1276833444', 'mona@gmail.com', 'Crown Room Brunch', '11-11-20202', '10:30 AM');
164
165 • SELECT *
166     FROM guestorderdate ;
167
```

Result Grid					
Filter Rows: <input type="text"/>					
Edit:   					
Export/Import:  					
Wrap Cell Content: 					
	guestID	guestEmail	restaurantName	date	time
▶	1246465641	omar@hotmail.com	Serëa	13-11-2020	11:00 AM
	1257768745	fahd@gmail.com	Sheerwater Breakfast	7-9-2020	9:10 AM
	1276833444	mona@gmail.com	Crown Room Brunch	11-11-20202	10:30 AM
	1939756833	moh@ hotmail.com	Sun Deck	11-11-2020	4:00 PM
	6757868111	sara@gmail.com	ENO Market & Pizzeria	5-4-2020	3:15 PM
*	NULL	NULL	NULL	NULL	NULL






168

169 • **SELECT ***

170 **FROM** guestorderdate

171 **HAVING** date = '11-11-2020';

172

<					
Result Grid					
Filter Rows: <input type="text"/>					
Edit:   					
Export/Import:  					
Wrap C					
	guestID	guestEmail	restaurantName	date	time
▶	1939756833	moh@hotmail.com	Sun Deck	11-11-2020	4:00 PM
*	NULL	NULL	NULL	NULL	NULL

182






183 • **DELETE from** guestorderdate

184 **WHERE** time = '9:10 AM';

185

186 • **SELECT ***






187 **FROM** guestorderdate ;

<					
Result Grid					
Filter Rows: <input type="text"/>					
Edit:   					
Export/Import:  					
Wra					
	guestID	guestEmail	restaurantName	date	time
▶	1246465641	omar@hotmail.com	Serëa	13-11-2020	11:00 AM
	1276833444	mona@gmail.com	Crown Room Brunch	11-11-20202	10:30 AM
	1939756833	moh@hotmail.com	Sun Deck	11-11-2020	4:00 PM
	6757868111	sara@gmail.com	ENO Market & Pizzeria	5-4-2020	3:15 PM
*	NULL	NULL	NULL	NULL	NULL

Room :

```
185 • CREATE TABLE room (  
186     roomNo INT NOT NULL,  
187     roomType VARCHAR(45) DEFAULT NULL,  
188     status VARCHAR(45) DEFAULT NULL,  
189     PRIMARY KEY (roomNo),  
190     KEY status_idx (roomType , status),  
191     KEY status_idx1 (status),  
192     CONSTRAINT roomType FOREIGN KEY (roomType)REFERENCES roomtype (roomType)ON DELETE CASCADE ,  
193     CONSTRAINT status FOREIGN KEY (status)REFERENCES roomstatus (status)ON DELETE CASCADE  
194 );  
195
```

```
180 |  
181 • INSERT INTO room  
182     VALUES ('105', 'Triple', 'CO - Check-Out');  
183 • INSERT INTO room  
184     VALUES ('106', 'Double', 'LC - Late Check out');  
185 • INSERT INTO room  
186     VALUES ('206', 'Suite', 'VC - Vacant and Clean');  
187 • INSERT INTO room  
188     VALUES ('103', 'Single', 'VR - Vacant and Ready ');  
189 • INSERT INTO room  
190     VALUES ('102', 'Quad', 'OCC - Occupied');  
191  
192 • SELECT *  
193     FROM room ;  
194
```

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

	roomNo	roomType	status
▶	106	Double	LC - Late Check out
	102	Quad	OCC - Occupied
	103	Single	VR - Vacant and Ready
	206	Suite	VC - Vacant and Clean
	105	Triple	CO - Check-Out
*	NULL	NULL	NULL

```

207
208 • SELECT *
209 FROM room
210 WHERE roomType IN (SELECT roomType
211                     FROM roomtype
212                     WHERE view = 'park');
213

```

Result Grid			
Filter Rows:			
Edit:			
roomNo	roomType	status	
102	Quad	OCC - Occupied	
103	Single	VR - Vacant and Ready	
NULL	NULL	NULL	

```

204 • SELECT roomNo, roomType, status
205 FROM room
206 ORDER BY roomNo DESC;
207

```

Result Grid			
Filter Rows:			
Edit:			
roomNo	roomType	status	
206	Suite	VC - Vacant and Clean	
106	Double	LC - Late Check out	
105	Triple	CO - Check-Out	
103	Single	VR - Vacant and Ready	
102	Quad	OCC - Occupied	
NULL	NULL	NULL	

```

221
222 • SELECT FName,LName,ID,Email
223 FROM guest
224 WHERE ID =(SELECT guestID
225             FROM roomstatus
226             WHERE status IN(SELECT status
227                             FROM room
228                             WHERE status='VR - Vacant and Ready ' ));
229

```

Result Grid				
Filter Rows:				
Edit:				
FName	LName	ID	Email	
mona	hamza	1276833444	mona@gmail.com	
NULL	NULL	NULL	NULL	

231

232 • **SELECT** g.FName,g.LName,g.ID,g.Email,r.roomNo,r.roomType,r.status

233 **FROM** guest g,room r,roomstatus s

234 **WHERE** g.ID=s.guestID **AND** r.status=s.status

235 **ORDER BY** g.FName ;

236

	FName	LName	ID	Email	roomNo	roomType	status
▶	fahd	yasir	1257768745	fahd@gmail.com	105	Triple	CO - Check-Out
	mohammed	ahmed	1939756833	moh@hotmail.com	102	Quad	OCC - Occupied
	mona	hamza	1276833444	mona@gmail.com	103	Single	VR - Vacant and Ready
	omar	faisal	1246465641	omar@hotmail.com	206	Suite	VC - Vacant and Clean
	sara	ali	6757868111	sara@gmail.com	106	Double	LC - Late Check out

203

204 • **UPDATE** room

205 **SET** status = 'OCC - Occupied'

206 **WHERE** status = 'VR - Vacant and Ready';

207

208 • **SELECT** *

209 **FROM** room ;

	roomNo	roomType	status
▶	106	Double	LC - Late Check out
	102	Quad	OCC - Occupied
	103	Single	VR - Vacant and Ready
	206	Suite	VC - Vacant and Clean
	105	Triple	CO - Check-Out
*	NULL	NULL	NULL




room 103 ×

Roomtype :

```
196 • CREATE TABLE roomtype (  
197     roomType          varchar(45) NOT NULL,  
198     numberOfBeds      int DEFAULT NULL,  
199     view               varchar(45) DEFAULT NULL,  
200     smoke              varchar(45) DEFAULT NULL,  
201     PRIMARY KEY (roomType)  
202 );
```

```
204 • INSERT INTO roomtype  
205 VALUES ('Single', '1', 'park', 'allowed');  
206 • INSERT INTO roomtype  
207 VALUES ('Double', '1', 'pool', 'allowed');  
208 • INSERT INTO roomtype  
209 VALUES ('Triple', '2', 'sea', 'not allowed');  
210 • INSERT INTO roomtype  
211 VALUES ('Quad', '3', 'park', 'not allowed');  
212 • INSERT INTO roomtype  
213 VALUES ('Suite', '4', 'sea', 'not allowed');  
214  
215 • SELECT *  
216 FROM roomtype ;
```

217

Result Grid				
Filter Rows: <input type="text"/>				
Edit:    Export/Import				
	roomType	numberOfBeds	view	smoke
▶	Double	1	pool	allowed
	Quad	3	park	not allowed
	Single	1	park	allowed
	Suite	4	sea	not allowed
	Triple	2	sea	not allowed
*	NULL	NULL	NULL	NULL

```

262 • SELECT r.roomNo,s.status,t.roomType,t.smoke
263 FROM room r,roomstatus s,roomtype t
264 WHERE s.status=r.status AND t.roomType=r.roomType AND t.smoke='allowed'
265 ORDER BY r.roomNo ;
266
267

```

Result Grid				
Filter Rows: <input type="text"/>				
Export:				
Wrap Cell Content:				
	roomNo	status	roomType	smoke
▶	103	VR - Vacant and Ready	Single	allowed
	106	LC - Late Check out	Double	allowed

```

3 • DELETE FROM roomtype
4 WHERE roomType='Suite';
5

```






Result Grid				
Filter Rows: <input type="text"/>				
Edit:				
Export/Import:				
Wrap				
	roomType	numberOfBeds	view	smoke
▶	Double	1	pool	allowed
	Quad	3	park	not allowed
	Single	1	park	allowed
	Triple	2	sea	not allowed
✱	NULL	NULL	NULL	NULL

roomtype 4			roomtype 5	×
Output				
Action Output				
#	Time	Action		
✓ 71	21:07:49	DELETE FROM roomtype WHERE roomType='Suite'		
✓ 72	21:07:49	SELECT * FROM db1_project.roomtype LIMIT 0, 1000		

Roomstatus :

```
CREATE TABLE roomstatus (  
    status          varchar(45) NOT NULL,  
    guestID         varchar(20) DEFAULT NULL,  
    guestEmail      varchar(20) DEFAULT NULL,  
    PRIMARY KEY (status),  
    CONSTRAINT roomstatus_FK1 FOREIGN KEY (guestID) REFERENCES Guest (ID) ,  
    CONSTRAINT roomstatus_FK2 FOREIGN KEY (guestEmail) REFERENCES Guest (Email)  
);
```

```
290 • INSERT INTO roomstatus  
291 VALUES ('OCC - Occupied', '1939756833', 'moh@ hotmail.com');  
292 • INSERT INTO roomstatus  
293 VALUES ('LC - Late Check out', '6757868111', 'sara@gmail.com');  
294 • INSERT INTO roomstatus  
295 VALUES ('CO - Check-Out', '1257768745', 'fahd@gmail.com');  
296 • INSERT INTO roomstatus  
297 VALUES ('VC - Vacant and Clean', '1246465641', 'omar@hotmail.com');  
298 • INSERT INTO roomstatus  
299 VALUES ('VR - Vacant and Ready ', '1276833444', 'mona@gmail.com');  
300  
301  
302 • SELECT *  
303 FROM roomstatus ;
```

Result Grid			
Filter Rows: <input type="text"/>			
Edit:   			
Export/Import:  			
Wrap			
	status	guestID	guestEmail
▶	CO - Check-Out	1257768745	fahd@gmail.com
	LC - Late Check out	6757868111	sara@gmail.com
	OCC - Occupied	1939756833	moh@ hotmail.com
	VC - Vacant and Clean	1246465641	omar@hotmail.com
	VR - Vacant and Ready	1276833444	mona@gmail.com
•	NULL	NULL	NULL

Roomservice :

```
252 • CREATE TABLE roomservice (  
253     roomNo          int NOT NULL,  
254     roomService     varchar(45) NOT NULL,  
255     CONSTRAINT roomservice_PK PRIMARY KEY (roomService,roomNo),  
256     CONSTRAINT roomservice_FK FOREIGN KEY (roomNo) REFERENCES room(roomNo));  
257  
258 • INSERT INTO roomservice (roomNo, roomService)  
259     VALUES (105, 's12');  
260 • INSERT INTO roomservice (roomNo, roomService)  
261     VALUES (106, 's13');  
262 • INSERT INTO roomservice (roomNo, roomService)  
263     VALUES (206, 's14');  
264 • INSERT INTO roomservice (roomNo, roomService)  
265     VALUES (103, 's15');  
266 • INSERT INTO roomservice (roomNo, roomService)  
267     VALUES (102, 's16');  
268  
269 • SELECT *  
270     FROM roomservice ;
```

Result Grid		Filter Rows:	Edit:	Export/Import:	Wrap Cell C
roomNo	roomService				
102	s16				
103	s15				
105	s12				
106	s13				
206	s14				






315

```
316 • SELECT g.FName,g.LName,g.ID,r.roomNo,s.roomService
317 FROM guest g,room r,roomservice s,roomstatus t
318 WHERE g.ID=t.guestID AND t.status=r.status AND s.roomNo=r.roomNo
319 ORDER BY g.FName ;
```

<					
Result Grid					
Filter Rows:					
Export:					
Wrap Cell Content:					
	FName	LName	ID	roomNo	roomService
▶	fahd	yasir	1257768745	105	s12
	mohammed	ahmed	1939756833	102	s16
	mona	hamza	1276833444	103	s15
	omar	faisal	1246465641	206	s14
	sara	ali	6757868111	106	s13






Reservation :

```
271
272 • CREATE TABLE reservation (
273     reservationNumber    int NOT NULL,
274     roomNo                int DEFAULT NULL,
275     guestID               varchar(20) DEFAULT NULL,
276     guestEmail            varchar(20) DEFAULT NULL,
277     CONSTRAINT reservation_PK PRIMARY KEY (reservationNumber),
278     CONSTRAINT reservation_FK1 FOREIGN KEY (roomNo) REFERENCES room(roomNo),
279     CONSTRAINT reservation_FK2 FOREIGN KEY (guestID) REFERENCES Guest (ID),
280     CONSTRAINT reservation_FK3 FOREIGN KEY (guestEmail) REFERENCES Guest (Email)
281 );
282
283
284 • INSERT INTO reservation (reservationNumber, roomNo, guestID, guestEmail)
285 VALUES (123, 105, 1257768745 , 'fahd@gmail.com');
286 • INSERT INTO reservation (reservationNumber, roomNo, guestID, guestEmail)
287 VALUES (124, 106, 6757868111, 'sara@gmail.com');
288 • INSERT INTO reservation (reservationNumber, roomNo, guestID, guestEmail)
289 VALUES (125, 206, 1246465641, 'omar@hotmail.com');
290 • INSERT INTO reservation (reservationNumber, roomNo, guestID, guestEmail)
291 VALUES (126, 103, 1276833444, 'mona@gmail.com');
292 • INSERT INTO reservation (reservationNumber, roomNo, guestID, guestEmail)
293 VALUES (127, 102, 1939756833, 'moh@ hotmail.com');
294
295 • SELECT *
296 FROM reservation ;
297
```

Result Grid				
Filter Rows: <input type="text"/>				
Edit:   				
Export/Import:  				
Wrap Cell Cont				
	reservationNumber	roomNo	guestID	guestEmail
▶	123	105	1257768745	fahd@gmail.com
	124	106	6757868111	sara@gmail.com
	125	206	1246465641	omar@hotmail.com
	126	103	1276833444	mona@gmail.com
	127	102	1939756833	moh@ hotmail.com
•	NULL	NULL	NULL	NULL

Datecheck :

```
299 • CREATE TABLE datecheck (  
300     guestID          varchar(20) NOT NULL,  
301     guestEmail       varchar(20) NOT NULL,  
302     dateCheckIn      varchar(45) DEFAULT NULL,  
303     dateCheckOut     varchar(45) DEFAULT NULL,  
304     CONSTRAINT datecheck_PK PRIMARY KEY (guestID,guestEmail),  
305     CONSTRAINT datecheck_FK1 FOREIGN KEY (guestID) REFERENCES Guest (ID),  
306     CONSTRAINT datecheck_FK2 FOREIGN KEY (guestEmail) REFERENCES Guest (Email)  
307 );  
---  
309  
310 • INSERT INTO datecheck(guestID, guestEmail, dateCheckIn, dateCheckOut)  
311     VALUES (1939756833, 'moh@ hotmail.com', '10/11/2020', '15/11/2020');  
312 • INSERT INTO datecheck(guestID, guestEmail, dateCheckIn, dateCheckOut)  
313     VALUES (6757868111, 'sara@gmail.com', '5/4/2020', '8/4/2020');  
314 • INSERT INTO datecheck(guestID, guestEmail, dateCheckIn, dateCheckOut)  
315     VALUES (1257768745, 'fahd@gmail.com', '8/9/2020', '10/9/2020');  
316 • INSERT INTO datecheck(guestID, guestEmail, dateCheckIn, dateCheckOut)  
317     VALUES (1246465641, 'omar@hotmail.com', '12/11/2020', '16/11/2020');  
318 • INSERT INTO datecheck(guestID, guestEmail, dateCheckIn, dateCheckOut)  
319     VALUES (1276833444, 'mona@gmail.com', '11/11/2020', '13/11/2020');  
320  
321  
322 • SELECT *  
323     FROM datecheck ;
```




Result Grid				
Filter Rows: <input type="text"/>				
Edit:   				
Export/Import:  				
Wrap C				
guestID	guestEmail	dateCheckIn	dateCheckOut	
1246465641	omar@hotmail.com	12/11/2020	16/11/2020	
1257768745	fahd@gmail.com	8/9/2020	10/9/2020	
1276833444	mona@gmail.com	11/11/2020	13/11/2020	
1939756833	moh@ hotmail.com	10/11/2020	15/11/2020	
6757868111	sara@gmail.com	5/4/2020	8/4/2020	
NULL	NULL	NULL	NULL	

325

```
326 • SELECT guestID,guestEmail,dateCheckIn
327 FROM datecheck
328 WHERE dateCheckIn BETWEEN '10/11/2020' AND '12/11/2020';
```

329

330

<			
Result Grid			
Filter Rows: <input type="text"/>			
Edit:    Export/Import:			
	guestID	guestEmail	dateCheckIn
▶	1246465641	omar@hotmail.com	12/11/2020
	1276833444	mona@gmail.com	11/11/2020
	1939756833	moh@hotmail.com	10/11/2020
•	NULL	NULL	NULL

330

```
337 • SELECT dateCheckIn,dateCheckOut
338 FROM datecheck
339 WHERE guestID=(SELECT guestID
340                 FROM roomstatus
341                 WHERE status IN(SELECT status
342                                 FROM room
343                                 WHERE roomNo = '105'));
```

330

<			
Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	dateCheckIn	dateCheckOut	
▶	8/9/2020	10/9/2020	

Roomprice :

```
332
333 • CREATE TABLE roomprice (
334     roomNo          int NOT NULL,
335     price            double DEFAULT NULL,
336     CONSTRAINT roomprice_PK PRIMARY KEY (roomNo),
337     CONSTRAINT roomprice_FK FOREIGN KEY (roomNo) REFERENCES room(roomNo));
338
339 • INSERT INTO roomprice (roomNo, price)
340     VALUES (105, 350);
341 • INSERT INTO roomprice (roomNo, price)
342     VALUES (106, 400);
343 • INSERT INTO roomprice (roomNo, price)
344     VALUES (206, 200);
345 • INSERT INTO roomprice (roomNo, price)
346     VALUES (103, 350);
347 • INSERT INTO roomprice (roomNo, price)
348     VALUES (102, 350);
349
350 • SELECT *
351     FROM roomprice ;
```

Result Grid | | Filter Rows: | Edit: | Export/Import: | Wrap

	roomNo	price
▶	102	350
	103	350
	105	350
	106	400
	206	200
*	NULL	NULL

```

396 • SELECT r.roomNo,r.roomType,r.status,p.price
397 FROM roomprice p ,room r,roomstatus s
398 WHERE r.status=s.status AND r.roomNo=p.roomNo
399 ORDER BY p.price DESC;
400

```

Result Grid				
Filter Rows: <input type="text"/>				
Export: <input type="button" value="Export"/>				
Wrap Cell Content				
	roomNo	roomType	status	price
▶	106	Double	LC - Late Check out	400
	102	Quad	OCC - Occupied	350
	103	Single	VR - Vacant and Ready	350
	105	Triple	CO - Check-Out	350
	206	Suite	VC - Vacant and Clean	200






Restaurant :

```
428
429 • CREATE TABLE restaurant (
430     name          VARCHAR(45) NOT NULL,
431     type          VARCHAR(45) NULL,
432     CONSTRAINT restaurant_PK PRIMARY KEY (name),
433     CONSTRAINT restaurant_FK FOREIGN KEY (type) REFERENCES restauranttype (type));
434
435 • INSERT INTO restaurant (name, type)
436     VALUES ('Sun Deck', 'Café');
437 • INSERT INTO restaurant (name, type)
438     VALUES ('ENO Market & Pizzeria', 'Italian');
439 • INSERT INTO restaurant (name, type)
440     VALUES ('Serëa', 'sea restaurant');
441 • INSERT INTO restaurant (name, type)
442     VALUES ('Sheerwater Breakfast', 'Coronado Beach restaurant');
443 • INSERT INTO restaurant (name, type)
444     VALUES ('Crown Room Brunch', 'buffet');
445
446 • SELECT *
447     FROM restaurant ;
```

Result Grid		Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
name	type				
Crown Room Brunch	buffet				
Sun Deck	Café				
Sheerwater Breakfast	Coronado Beach res...				
ENO Market & Pizzeria	Italian				
Serëa	sea restaurant				
NULL	NULL				






Restauranttype :

```
376
377 • CREATE TABLE restauranttype (
378     type          VARCHAR(45) NOT NULL,
379     capacity       INT NULL,
380     workingTime    VARCHAR(45) NULL,
381     PRIMARY KEY (type));
382
383 • INSERT INTO restauranttype (type, capacity, workingTime)
384     VALUES ('Café', '100', 'Daily 11:30am - 7pm');
385 • INSERT INTO restauranttype (type, capacity, workingTime)
386     VALUES ('Italian', '400', 'Sun-Thu: 6am - 8pm');
387 • INSERT INTO restauranttype (type, capacity, workingTime)
388     VALUES ('sea restaurant', '600', 'Sat - Sun : 11am - 2:30pm');
389 • INSERT INTO restauranttype (type, capacity, workingTime)
390     VALUES ('Coronado Beach restaurant', '200', 'Fri - Sun 7 - 11am');
391 • INSERT INTO restauranttype (type, capacity, workingTime)
392     VALUES ('Buffet', '1000', 'Sun-Thu: 10:30am - 5pm');
393
394 • SELECT *
395     FROM restauranttype ;
```

Result Grid			
Filter Rows: <input type="text"/>			
Edit:   			
Export/Import:  			
Wr			
	type	capacity	workingTime
▶	Buffet	1000	Sun-Thu: 10:30am - 5pm
	Café	100	Daily 11:30am - 7pm
	Coronado Beach restaurant	200	Fri - Sun 7 - 11am
	Italian	400	Sun-Thu: 6am - 8pm
	sea restaurant	600	Sat - Sun : 11am - 2:30pm
*	NULL	NULL	NULL


```
490
491 • UPDATE restauranttype
492     SET workingTime='Fri - Sun 7 am- 11pm'
493     WHERE type ='Coronado Beach restaurant';
```

<

Result Grid   Filter Rows: Edit:    Ex

	type	capacity	workingTime
▶	Buffet	1000	Sun-Thu: 10:30am - 5pm
	Café	100	Daily 11:30am - 7pm
	Coronado Beach restaurant	200	Fri - Sun 7 am- 11pm
	Italian	400	Sun-Thu: 6am - 8pm
	sea restaurant	600	Sat - Sun : 11am - 2:30pm
•	NULL	NULL	NULL

Restaurantmenu :

```
478 • CREATE TABLE restaurantmenu (  
479     restaurantName    VARCHAR(45) NOT NULL,  
480     menu               VARCHAR(300) NOT NULL,  
481     CONSTRAINT restaurantName_PK PRIMARY KEY (restaurantName, menu),  
482     CONSTRAINT restaurantName_FK FOREIGN KEY (restaurantName) REFERENCES restaurant (name) );  
483  
484 • INSERT INTO restaurantmenu (restaurantName, menu)  
485     VALUES ('Sun Deck', 'coffee & Drinks ,STARTERS,SALADS & BOWLS,HANDHELDS,ENTREES,DESSERT');  
486 • INSERT INTO restaurantmenu (restaurantName, menu)  
487     VALUES ('ENO Market & Pizzeria', 'MARGHERITA,PEPPERONI,MELANZANA,BIANCA,FUNGHI,CARCIOFI,SALSICCIA,QUATTRO FORMAGGI');  
488 • INSERT INTO restaurantmenu (restaurantName, menu)  
489     VALUES ('Serëa', 'SALADS,APPETIZERS,DAILY SELECTION OF OYSTERS,SASHIMI,WOOD GRILLED,FLASH FRIED');  
490 • INSERT INTO restaurantmenu (restaurantName, menu)  
491     VALUES ('Sheerwater Breakfast', 'SEASONAL FRUIT PLATE (V/GF),GREEK YOGURT BOWL (VEG),CLASSIC HEART HEALTHY OATMEAL (V/GF),MORNING BREAKFAST BASKET  
492 • INSERT INTO restaurantmenu (restaurantName, menu)  
493     VALUES ('Crown Room Brunch', 'Eggs Benedict,Egg Soufflé,Rosemary hollandaise,Breakfast Meats,Roasted Potatoes,Pancakes and Waffles,Honeycomb Yogurt  
494  
495 • SELECT *  
496     FROM restaurantmenu ;
```

Result Grid		Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
restaurantName	menu				
▶ Crown Room Brunch	Eggs Benedict,Egg Soufflé,Rosemary hollandaise,Breakfast Meats,Roasted Potatoes,Pancakes and Waffles,Honeycomb Yogurt & Granola,California and Baja Cheeses,Artisan Bread,S...				
ENO Market & Pizzeria	MARGHERITA,PEPPERONI,MELANZANA,BIANCA,FUNGHI,CARCIOFI,SALSICCIA,QUATTRO FORMAGGI				
Serëa	SALADS,APPETIZERS,DAILY SELECTION OF OYSTERS,SASHIMI,WOOD GRILLED,FLASH FRIED				
Sheerwater Breakfast	SEASONAL FRUIT PLATE (V/GF),GREEK YOGURT BOWL (VEG),CLASSIC HEART HEALTHY OATMEAL (V/GF),MORNING BREAKFAST BASKET (VEG),BELGIAN STYLE SUGAR WAFFLES (VEG...				
Sun Deck	coffee & Drinks ,STARTERS,SALADS & BOWLS,HANDHELDS,ENTREES,DESSERT				
* NULL	NULL				

```
267  
268 • SELECT restaurantName,COUNT(menu) AS 'Menu'  
269     FROM restaurantmenu  
270     GROUP BY restaurantName;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Cont
restaurantName	Menu			
▶ Crown Room Brunch	1			
ENO Market & Pizzeria	1			
Serëa	1			
Sheerwater Breakfast	1			
Sun Deck	1			

Membership :








```
505 • CREATE TABLE membership (  
506     reservationNumber    INT NOT NULL,  
507     guestID              VARCHAR(20) NOT NULL,  
508     guestEmail           VARCHAR(20) NOT NULL,  
509     idMemberShip         varchar(20) NOT NULL,  
510     gold                 VARCHAR(1) NULL,CHECK (gold IN ('*')),  
511     silver               VARCHAR(1) NULL,CHECK (silver IN ('*')),  
512     diamond              VARCHAR(1) NULL,CHECK (diamond IN ('*')),  
513     CONSTRAINT membership_PK PRIMARY KEY (reservationNumber,guestID,guestEmail,idMemberShip),  
514     CONSTRAINT membership_FK1 FOREIGN KEY (reservationNumber) REFERENCES reservation (reservationNumber),  
515     CONSTRAINT membership_FK2 FOREIGN KEY (guestID) REFERENCES Guest (ID) ,  
516     CONSTRAINT membership_FK3 FOREIGN KEY (guestEmail) REFERENCES Guest (Email)  
517 );  
518  
433  
434 • INSERT INTO membership (reservationNumber, guestID, guestEmail, idMemberShip, diamond)  
435 VALUES ('123', '1939756833', 'moh@ hotmail.com', '3246957812', '*');  
436 • INSERT INTO membership (reservationNumber, guestID, guestEmail, idMemberShip, silver)  
437 VALUES ('124', '6757868111', 'sara@gmail.com', '3268992455', '*');  
438 • INSERT INTO membership (reservationNumber, guestID, guestEmail, idMemberShip, gold)  
439 VALUES ('125', '1257768745', 'fahd@gmail.com', '4521787231', '*');  
440 • INSERT INTO membership (reservationNumber, guestID, guestEmail, idMemberShip, diamond)  
441 VALUES ('126', '1246465641', 'omar@hotmail.com', '4234742332', '*');  
442 • INSERT INTO membership (reservationNumber, guestID, guestEmail, idMemberShip, gold)  
443 VALUES ('127', '1276833444', 'mona@gmail.com', '3548736245', '*');  
444  
445 • SELECT *  
446 FROM membership ;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

reservationNumber	guestID	guestEmail	idMemberShip	gold	silve	dian
123	1939756833	moh@ hotmail.com	3246957812	NULL	NULL	*
124	6757868111	sara@gmail.com	3268992455	NULL	*	NULL
125	1257768745	fahd@gmail.com	4521787231	*	NULL	NULL
126	1246465641	omar@hotmail.com	4234742332	NULL	NULL	*
127	1276833444	mona@gmail.com	3548736245	*	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap

[illegible]

Result Grid |   Filter Rows: | Edit:    | Export/Import:   | Wrap Cells

[illegible]