

## SHARING CAR DATA MANAGEMENT

### **Project Overview**

#### ***Project purpose***

The purpose of this project is to define a well-organized system using SQL queries and tables, to identify the relationships and ways of data communication among the various entities. It illustrates, due to increased air pollution, how sharing a car can make some difference in reducing this pollution. Several owners can sharing the car cost to travel from city to city with strangers. The objective is to reduce the number of cars.

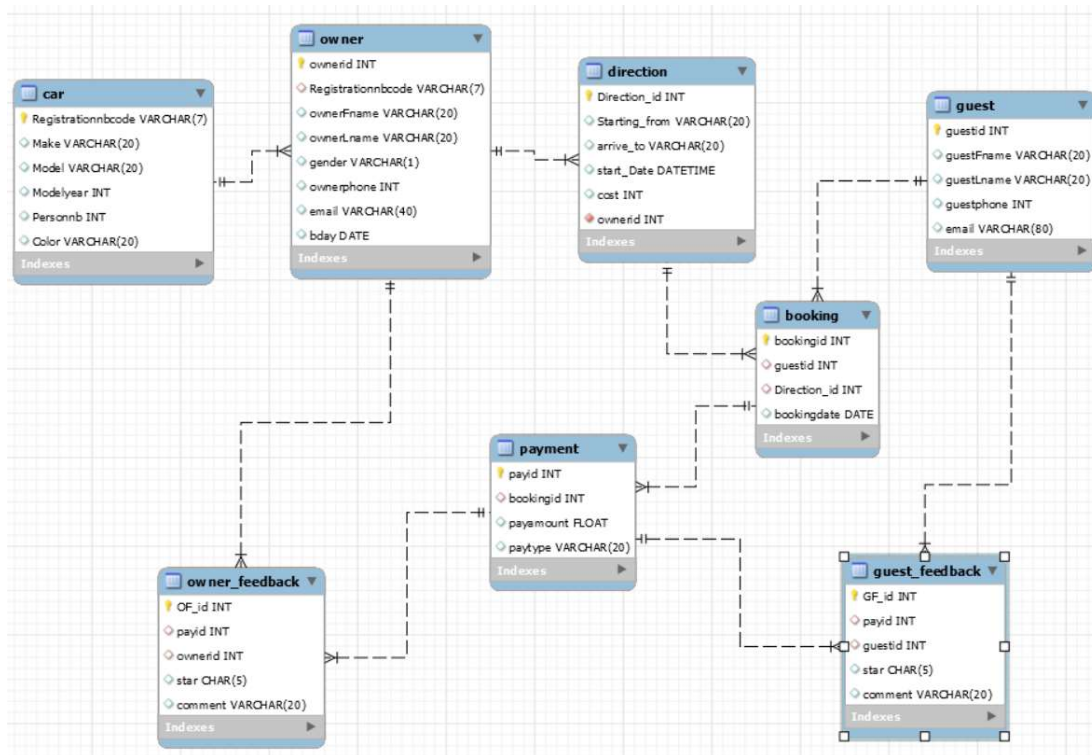
#### ***Project scope***

Car - owner - direction- booking -guest-payment-feedback of trip from the guest and the car owner

#### ***Project Outcome***

The tables and ER diagrams show us how a guest can reserve a car, And show the feedback about the car owner and guest by stars for give each one a rate and can access to all information about this travel .

## Diagram



## Tables

- car(Registrationnbcode ,Make ,Model,Modelyear,Personnb,Color)

Registrationnbcode	Make	Model	Modelyear	Personnb	Color
B582665	VOLKSWAGAN	GOLF	2016	5	Black
K741007	FORD	FOCUS	2014	5	White
L779556	NISSAN	QUEST	2015	7	Blue
M458610	MERCEDEZ BENZ	GLA	2015	5	Blue

- owner (ownerid ,Registrationnbcode,ownerFname,ownerLname,gender,ownerphone,email,bday)

ownerid	Registrationnbcode	ownerFname	ownerLname	gender	ownerphone	email	bday
11831001	B582665	Ha	Mo	M	3078547	hamo@gmail.com	1980-10-17
11831020	K741007	Sh	Ri	M	3004267	shri@gmail.com	1985-11-03
11831033	L779556	Ty	Gh	M	3960377	tygh-8@gmail.com	1985-11-03
11831404	M458610	Li	Ha	F	3478596	Liha@gmail.com	1990-10-10

- foreign key (Registrationnbcode)
- Direction (Direction\_id,Starting\_from,arrive\_to,start\_Date,cost,ownerid)
    - foreign key (ownerid)

Direction_id	Starting_from	arrive_to	start_Date	cost	ownerid
147123	Beirut	Saida	2020-12-07 09:00:00	15	11831001
147213	Beirut	Zahle	2020-12-13 15:30:00	20	11831020
147230	Tripoli	Beirut	2020-12-15 07:00:00	20	11831033
147302	Nabatye	Beirut	2020-12-18 13:00:00	18	11831404

4. guest (guestid,guestFname,guestLname,guestphone,email)

guestid	guestFname	guestLname	guestphone	email
3478930	Re	Md	72563478	rere@gmail.com
3478953	Ta	Fs	81776682	tata@gmail.com
3478966	At	So	76957135	atat@gmail.com
3478987	Rj	Og	80278417	rjrj@gmail.com

5. booking (bookingid,guestid,Direction\_id,bookingdate)

- foreign key (guestid)
- foreign key (Direction\_id)

bookingid	guestid	Direction_id	bookingdate
159147	3478930	147123	2020-12-05
159149	3478953	147213	2020-12-10
159154	3478966	147230	2020-12-11
159157	3478987	147302	2020-12-13
NULL	NULL	NULL	NULL

6. payment (payid,bookingid,payamount,paytype)

- foreign key (bookingid)

payid	bookingid	payamount	paytype
99645001	159147	15	visa
99645009	159149	20	cash
99645014	159154	20	visa
99645017	159157	18	visa

7. guest\_feedback (GF\_id,payid,guestid,star,comment)

- foreign key (guestid)
- foreign key (payid)

GF_id	payid	guestid	star	comment
2211	99645001	3478930	5	good driver
2221	99645009	3478953	4	nice time
2232	99645014	3478966	3	---
2250	99645017	3478987	5	----

8. owner\_feedback (OF\_id,payid,ownerid,star,comment)

- foreign key (ownerid)
- foreign key (**payid**)

OF_id	payid	ownerid	star	comment
5511	99645001	11831001	5	good company
5521	99645009	11831020	5	-----
5532	99645014	11831033	4	kind guest
5550	99645017	11831404	4	----

## Queries

### 1. Report the direction cites and the driver name

Starting_from	arrive_to	ownerFname	ownerLname
Beirut	Saida	Ha	Mo
Beirut	Zahle	Sh	Ri
Tripoli	Beirut	Ty	Gh
Nabatye	Beirut	Li	Ha

### 2. Report the avg stars of star feedback

avg(OFe.star)	avg(GFe.star)
4.5	4.25

### 3. Report the car has (BENZ) in the name and the owner name

Make	Model	ownerFname	ownerLname
MERCEDEZ BENZ	GLA	Li	Ha

### 4. Report the sum of all payments arrive to Beirut

Amount
38

### 5. Report the count of directions starting from Beirut.

count of beirut
2

### 6. Report the name of guest and the car model go starting from Nabatyie

guestFname	Make
Rj	MERCEDEZ BENZ

### 7. Report the sum, count and avg of payment type

sum(pay.payamount)	avg(pay.payamount)	count(pay.paytype)
53	17.666666666666668	3
20	20	1

### 8. Report the guest phone pay by visa and Starting from Beirut

guestid	guestFname	guestphone
3478930	Re	72563478

**9. Give "ta" sale 20%**

payid	bookingid	payamount	paytype
9645009	159149	16	cash

**After →**

**10. Create view summary of all info about ta sharing car**

Registrationnbcode	ownerFname	ownerphone	Starting_from	arrive_to	start_Date	bookingid	payamount	guestid	guestFname
B582665	Ha	3078547	Beirut	Saida	2020-12-07 09:00:00	159147	15	3478930	Re
K741007	Sh	3004267	Beirut	Zahle	2020-12-13 15:30:00	159149	16	3478953	Ta
L779556	Ty	3960377	Tripoli	Beirut	2020-12-15 07:00:00	159154	20	3478966	At
M458610	Li	3478596	Nabatye	Beirut	2020-12-18 13:00:00	159157	18	3478987	Rj