

VACIFY DATABASE

Database Systems Project



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Project Main Idea and Requirements

This database is for a website used to help book an entire trip. When the user logs in, it presents options of picking a flight, hotel, and a car hire in any place in the world.

To use the website as a user, it is needed to have a full name which consists of first and last name (FName and LName), phone number (Number), email address (Email), unique passport details (PassportDetails) which include the passport number and expiration date, and password (Password) for secure authentication. Each user will be given a unique identifier (ID).

A user also needs to add a location, in which one location only can be entered where the booking takes place. Furthermore, a user can book multiple flights, cars, or hotels.

Each user has the option to travel with other people (family or friends). They would be the user's dependants. They only need a Name (FName and LName), and passport details (PassportDetails) as they do not need to login, the user can just add their information.

Vacify's first service is offering flights. Each flight would store all flight information which include, a unique identifier (Reference), time and date of the flight (Time and Date). The user can access these at any time as well as the airline(Airlines). Each Flight has one price in which the website provides the cheapest option to be paid online. The website provides the option to book a one-way or two-way flight for the comfort of the user. A two-way flight is a round trip in which the location the user departs from is the one he returns to. A one-way flight includes a trip to one location without a return. A flight can be booked by one user only for all of the dependants. A flight is related to a location in which it departs from.

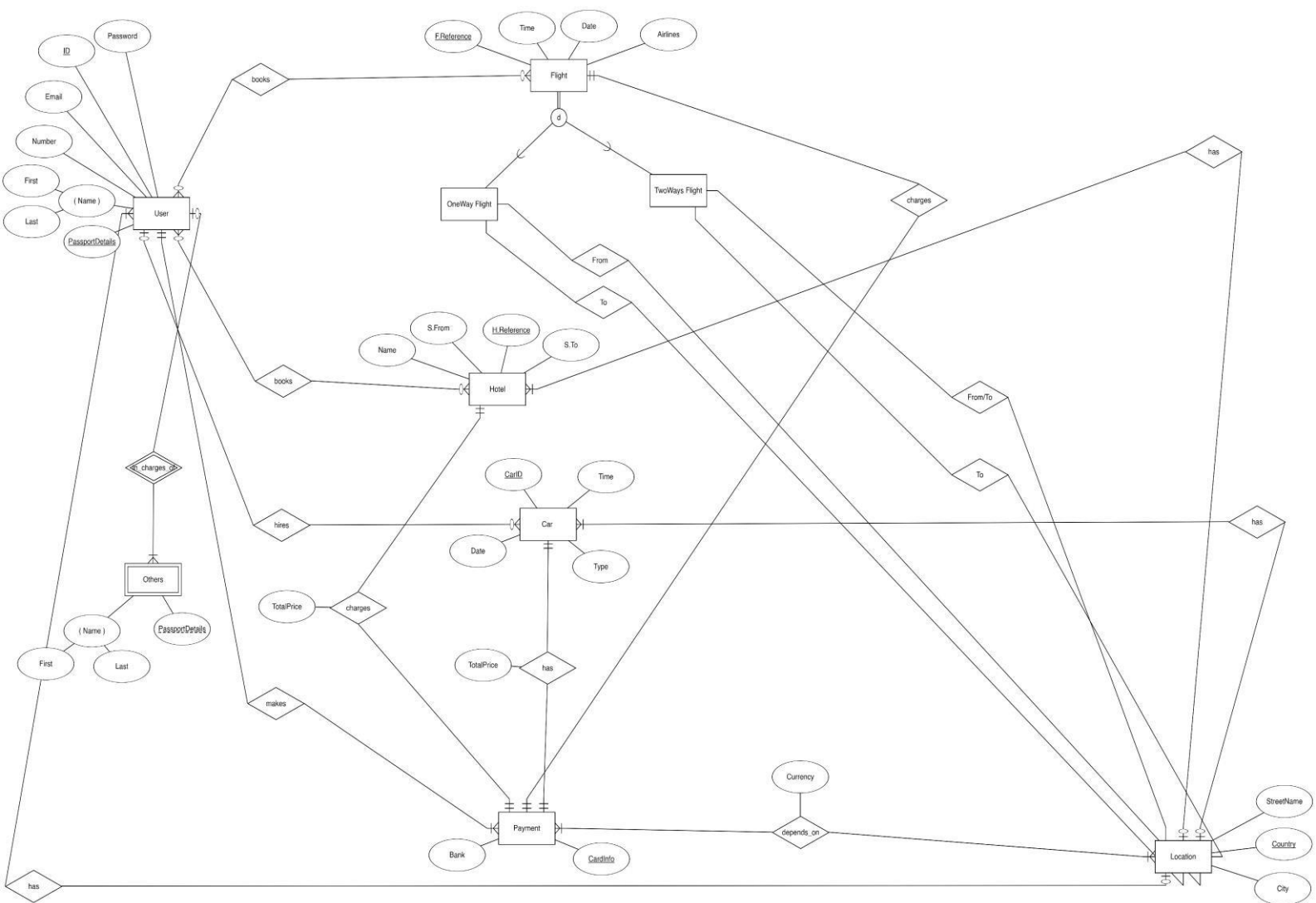
The second service that Vacify provides is hotel booking. The user can pick any hotel in a given location. Each hotel would have a name (Name), and a unique reference number (Reference). A user can book the specific staying time (S.From and S.To) and the number of rooms(Number_Rooms). The user can also add the dependants' information when booking additional rooms, that includes their full names and passport details. Also, a hotel has a specific location and a specific pricing to be paid, as again the website provides one price which is the cheapest. The hotel should be booked under one name only, which is the name of the user.

The third and last service provided is car hiring. To hire a car, you need to pick the car model where you can pick the car type (CarType) for each specific model. It is needed to book the date and time (Date and Time) as well in which the user would like to have the requested car. These include the time of pick-up and return. Each car has a unique tracker Id(CarID). There is also a specific pricing that needs to be paid online. The car booked should be under the name of one user only.

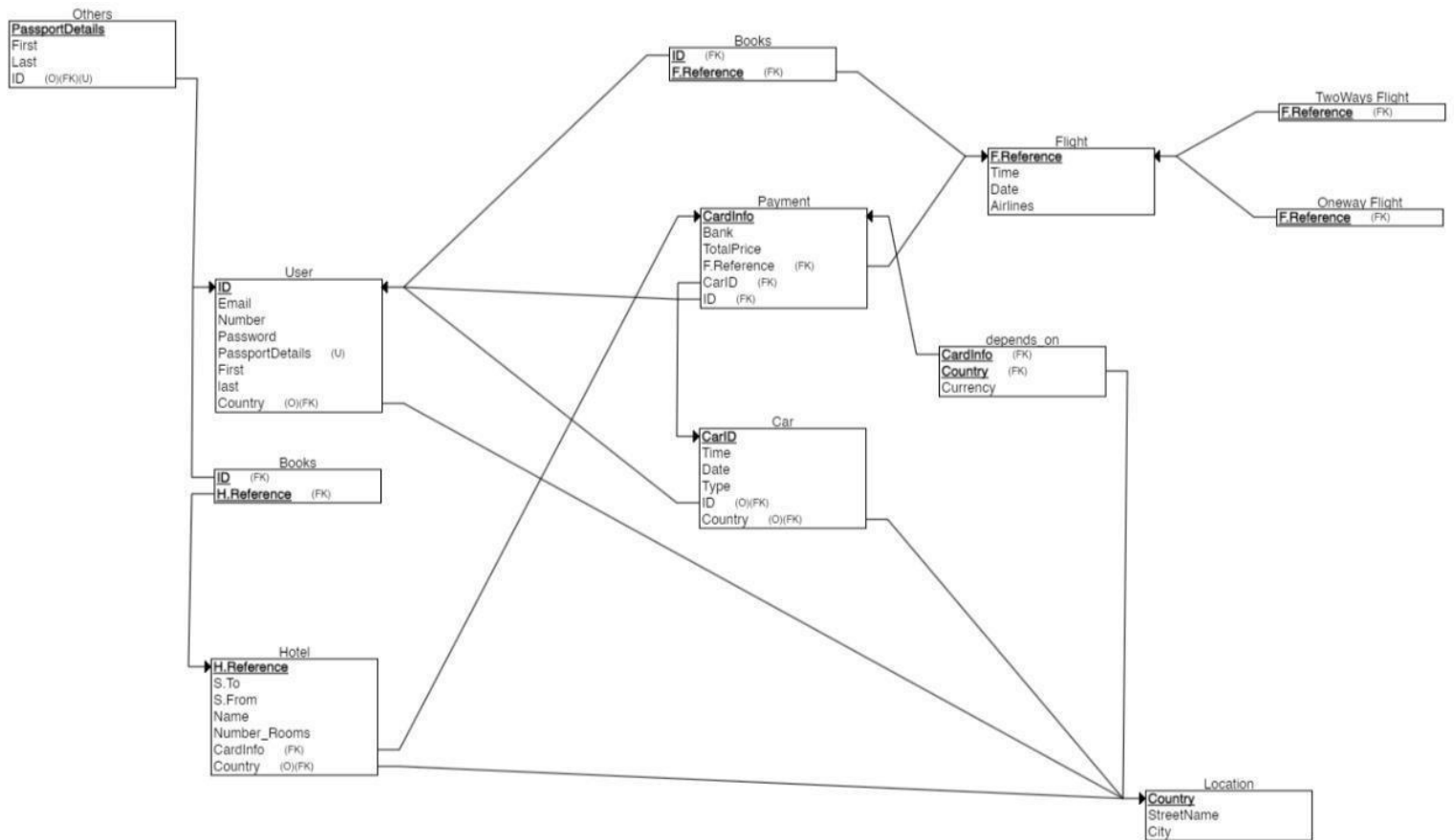
For the payment, it is used for all the provided services and it offers more than one online payment method. For the payment, a user would need Card information(CardInfo) which include the full name, expiration date, and CCV (FName, LName, EXP, and CCV). The website takes into consideration the currency the user is paying with (Curr) which is related to the location that the user originally booked from. Also, the name of the bank (Bank) is required. The payment for any service should include the total pricing to be paid once in case the user would like to book multiple tickets or multiple rooms.

For the location, it includes the city and country names (City and Country) as well as the street name (StreetName). There is one location related to each individual service. The flight has a location, the hotel has a location, and the car hiring as well. The user also can enter one original location in which it is possible to travel from.

EER Diagram



Schema Diagram



SQL Code

```
CREATE TABLE OneWayFlight
(
    FReference VARCHAR2(15)
    ,CONSTRAINT flight_ref_oneway_fk FOREIGN KEY (FReference) REFERENCES Flight(FReference));
```

```
CREATE TABLE TwoWaysFlight
(
    FReference VARCHAR2(15)
    ,CONSTRAINT flight_ref_twoway_fk FOREIGN KEY (FReference) REFERENCES Flight(FReference));
```

```
CREATE TABLE Location
(Country VARCHAR2(75)
CONSTRAINT country_location_pk PRIMARY KEY
,StreetName VARCHAR2(50)
CONSTRAINT streetN_nn NOT NULL,
City VARCHAR2(30)
CONSTRAINT city_nn NOT NULL);
```

```
CREATE TABLE Payment
(
    Bank VARCHAR2(50)
    CONSTRAINT bank_nn NOT NULL,
    CardInfo VARCHAR2(25)
    CONSTRAINT card_info_pk PRIMARY KEY
CONSTRAINT card_info_nn NOT NULL
CONSTRAINT card_info_format
CHECK (REGEXP_LIKE(CardInfo,'^\d{16}:\d{3}:(0[1-12]/2[4-9])$'));
```

TotalPrice NUMBER
 CONSTRAINT total_price_nn NOT NULL,
 CarID NUMBER
 CONSTRAINT carid_payment_nn NOT NULL,
 CONSTRAINT carid_payment_fk FOREIGN KEY (CarID) REFERENCES Car(CarID),
 FReference VARCHAR2(15)
 CONSTRAINT flight_ref_payment_nn NOT NULL,
 CONSTRAINT flight_ref_payment_fk FOREIGN KEY (FReference) REFERENCES Flight(FReference),
 ID VARCHAR2(25)
 CONSTRAINT id_payment_nn NOT NULL ,
 CONSTRAINT id_payment_fk FOREIGN KEY (ID) REFERENCES USERS(ID));

CREATE TABLE Hotel

(
 HReference VARCHAR2(15)
 CONSTRAINT hotel_ref_pk PRIMARY KEY,
 Name VARCHAR2(35)
 CONSTRAINT name_hotel_nn NOT NULL,
 NumberOfRooms NUMBER
 CONSTRAINT num_of_rooms_nn NOT NULL,
 StayFrom DATE
 CONSTRAINT from_date_nn NOT NULL,
 StayTo DATE
 CONSTRAINT to_date_nn NOT NULL,
 Country VARCHAR2(75)
 ,CONSTRAINT country_hotel_fk FOREIGN KEY (Country) REFERENCES Location(Country),
 CardInfo VARCHAR2(25)
 CONSTRAINT card_info_hotel_nn NOT NULL
 ,CONSTRAINT card_info_hotel_fk FOREIGN KEY (CardInfo) REFERENCES Payment(CardInfo));


```

CREATE TABLE HBooks
(
  ID VARCHAR2(25),
  HReference VARCHAR2(15),
  CONSTRAINT hotel_ref_id_pk PRIMARY KEY (ID,HReference),
  CONSTRAINT hotel_ref_books_fk FOREIGN KEY (HReference) REFERENCES Hotel(HReference),
  CONSTRAINT id_hbooks_fk FOREIGN KEY (ID) REFERENCES USERS(ID));

CREATE TABLE depends_on
(
  Currency VARCHAR2(10)
    CONSTRAINT currency_nn NOT NULL,
  Country VARCHAR2(75)
    ,CardInfo VARCHAR2(25),
    CONSTRAINT country_cardinfo_pk PRIMARY KEY (Country,CardInfo),
  CONSTRAINT country_depends_fk FOREIGN KEY (Country) REFERENCES Location(Country),
  CONSTRAINT card_info_depends_fk FOREIGN KEY (CardInfo) REFERENCES Payment(CardInfo)
);

CREATE TABLE Others
(
  Fname VARCHAR2(20)
    CONSTRAINT fname_o_nn NOT NULL
    ,Lname VARCHAR2(25)
    CONSTRAINT lname_o_nn NOT NULL,
  PassportDetails VARCHAR2(15)
    CONSTRAINT passport_details_o_pk PRIMARY KEY ,
  ID VARCHAR2(25)
    CONSTRAINT id_o_unq UNIQUE,CONSTRAINT id_o_fk FOREIGN KEY (ID) REFERENCES USERS(ID)
);

```

```

CREATE TABLE Car
(
    CarID NUMBER
    CONSTRAINT car_id_pk PRIMARY KEY,
    Time VARCHAR2(8)
    CONSTRAINT car_time_nn NOT NULL
    CONSTRAINT time_format_car
CHECK (REGEXP_LIKE(Time, '^([0-9]|1[0-2]):[0-5][0-9] (AM|PM)$')),
    CDate Date
    CONSTRAINT car_date_nn NOT NULL,
    Type VARCHAR2(25)
    CONSTRAINT car_type_nn NOT NULL,
    ID VARCHAR2(25)
,CONSTRAINT car_user_id_fk FOREIGN KEY (ID) REFERENCES USERS(ID),
    Country VARCHAR2(75)
,CONSTRAINT car_location_country_fk FOREIGN KEY (Country) REFERENCES Location(Country));

```

```

CREATE TABLE Flight
( FReference VARCHAR2(15)
CONSTRAINT f_reference_flight_pk PRIMARY KEY,
    Time VARCHAR2(8)
CONSTRAINT time_nn NOT NULL
    CONSTRAINT time_format
CHECK (REGEXP_LIKE(Time, '^([0-9]|1[0-2]):[0-5][0-9] (AM|PM)$')),
    FDate DATE
    CONSTRAINT flight_date_nn NOT NULL,
    AirLines VARCHAR2(20)
CONSTRAINT airlines_nn NOT NULL);

```

```

CREATE TABLE FBooks
    (FReference VARCHAR2(15)
,CONSTRAINT f_reference_books_fk FOREIGN KEY (FReference) REFERENCES Flight(FReference),
ID VARCHAR2(25)
,CONSTRAINT id_books_fk FOREIGN KEY (ID) REFERENCES USERS(ID),
CONSTRAINT id_flightRef_pk PRIMARY KEY (FReference,ID));

```

```

CREATE TABLE USERS
    (ID VARCHAR2(25)
CONSTRAINT id_nn NOT NULL
CONSTRAINT id_user_pk PRIMARY KEY,
EMAIL VARCHAR2(50)
CONSTRAINT email_nn NOT NULL
CONSTRAINT check_email_format
CHECK(REGEXP_LIKE(EMAIL,'^[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,}$')),
PhoneNumber NUMBER
CONSTRAINT phone_number_nn NOT NULL,
Password VARCHAR2(25)
CONSTRAINT password_nn NOT NULL,
PassportDetails VARCHAR2(15)
CONSTRAINT passport_details_nn NOT NULL
CONSTRAINT passport_details_Unq UNIQUE,
FNAME VARCHAR2(20)
CONSTRAINT fname_nn NOT NULL,
LNAME VARCHAR2(25)
CONSTRAINT lname_nn NOT NULL,
COUNTRY VARCHAR2(75),
CONSTRAINT country_user_fk FOREIGN KEY(COUNTRY) REFERENCES Location(Country));

```

//USERS

```
insert into users (ID,EMAIL,PhoneNumber>Password,PassportDetails,FNAME,LNAME,COUNTRY)
values('hamad123','hamad123@gmail.com',556168745,'hamad4563','952019QWE:UAE','hamad','Al Maktoum',
"United Arab Emirates");

insert into users (ID,EMAIL,PhoneNumber>Password,PassportDetails,FNAME,LNAME,COUNTRY)
values('antoine123','antoine123@gmail.com',1632960953,'gomez123','8923146HU:UnitedKingdom','antoine','gomez','France');

insert into users (ID,EMAIL,PhoneNumber>Password,PassportDetails,FNAME,LNAME,COUNTRY)
values('ahmad03','ahmad021@gmail.com',791234567,'ahmad1234','194232GKL:Jordan','Ahmad','Mohammad','Turkey');

insert into users (ID,EMAIL,PhoneNumber>Password,PassportDetails,FNAME,LNAME,COUNTRY)
values('aitana98','bonmati09@gmail.com',884313506,'aitana123','2187903GY:Spain','Aitana','Bonmati','Spain');

insert into users (ID,EMAIL,PhoneNumber>Password,PassportDetails,FNAME,LNAME,COUNTRY)
values('zayed04','fahad123@gmail.com',531279454,'fahad456','8923141QA:QATAR','fahad','zayed','Kingdom Of Saudi Arabia');
```

//HOTEL

```
INSERT INTO HOTEL (HReference,Name,NumberOfRooms,StayFrom,StayTo,Country,CardInfo)
VALUES('IEAM1EN302W5',"Hamad Al Maktoum",2,'26-DEC-23','02-JAN-24',"United Arab
Emirates",'4043149122201153:123:04/27');

INSERT INTO HOTEL (HReference,Name,NumberOfRooms,StayFrom,StayTo,Country,CardInfo)
VALUES('N1ZBPXQ8DLDD',"Fahad Zayed",1,'15-JUL-24','25-JUL-24',"Kingdom Of Saudi Arabia",'4339690857621845:980:05/28');

INSERT INTO HOTEL (HReference,Name,NumberOfRooms,StayFrom,StayTo,Country,CardInfo)
VALUES('2D6H5XHYKUB5',"Ahmad Mohammad",1,'01-JAN-24','07-JAN-24',"Turkey",'1792153590672458:752:12/25');

INSERT INTO HOTEL (HReference,Name,NumberOfRooms,StayFrom,StayTo,Country,CardInfo)
VALUES('GVWQ258SU5JH',"Antoine Gomez",4,'22-FEB-24','28-FEB-24',"France",'2819595125491190:775:10/26');

INSERT INTO HOTEL (HReference,Name,NumberOfRooms,StayFrom,StayTo,Country,CardInfo)
VALUES('0E108R84IHVP',"Aitana Bonmati",3,'12-MAY-24','13-MAY-24',"Spain",'5645469192483792:902:03/29');
```

//CAR

```
INSERT INTO CAR (CARID,CDate,Type,ID,Country,Time)
VALUES(46872870,'04-JAN-24','Mazda','hamad123',"United Arab Emirates",'08:00 PM');

INSERT INTO CAR (CARID,CDate,Type,ID,Country,Time)
```

```
VALUES(5264632,'22-FEB-24','Toyota','zayed04',"Kingdom Of Saudi Arabia",'10:30 AM');

INSERT INTO CAR (CARID,CDate,Type,ID,Country,Time)
VALUES(95387896,'30-DEC-23','FORD','ahmad03',"Turkey",'08:00 AM');

INSERT INTO CAR (CARID,CDate,Type,ID,Country,Time)
VALUES(12577729,'20-JUL-24','Volkswagen','antoine123',"France",'09:30 AM');

INSERT INTO CAR (CARID,CDate,Type,ID,Country,Time)
VALUES(33678404,'12-MAY-24','Nissan','aitana98',"Spain",'12:30 AM');

//PAYMENT

INSERT INTO PAYMENT (Bank,CardInfo,TotalPrice,CarID,FReference,ID)
VALUES ("Arabi Bank",'4043149122201153:123:04/27',550,46872870,'ABC123','hamad123');

//this is the second ahmad flight
//this is just to do the join+ aggregation
INSERT INTO PAYMENT (Bank,CardInfo,TotalPrice,CarID,FReference,ID)
VALUES ("Cairo Amman bank",'5324044282817655:703:04/27',790,95387896,'JOR631','ahmad03');

INSERT INTO PAYMENT (Bank,CardInfo,TotalPrice,CarID,FReference,ID)
VALUES ("United Arab Bank",'4339690857621845:980:05/28',1250,5264632,'KSA721','zayed04');

//first ahmad flight
INSERT INTO PAYMENT (Bank,CardInfo,TotalPrice,CarID,FReference,ID)
VALUES ("Bank al Etihad",'1792153590672458:752:12/25',2539,95387896,'ABD931','ahmad03');

INSERT INTO PAYMENT (Bank,CardInfo,TotalPrice,CarID,FReference,ID)
VALUES ("Lloyds Bank",'2819595125491190:775:10/26',999,12577729,'SPA901','antoine123');

INSERT INTO PAYMENT (Bank,CardInfo,TotalPrice,CarID,FReference,ID)
VALUES ("Santander Bank",'5645469192483792:902:03/29',3500,33678404,'JOR631','antoine123');

//FLIGHT

INSERT INTO FLIGHT (FReference,FDate,Airlines,Time)
VALUES ('ABC123','26-DEC-23',"Turkish Airlines","02:30 PM");

INSERT INTO FLIGHT (FReference,FDate,Airlines,Time)
VALUES ('ABD931','01-JAN-24',"Fly Emirates","02:15 AM");

INSERT INTO FLIGHT (FReference,FDate,Airlines,Time)
VALUES ('SPA901','21-FEB-24',"Etihad Airways","06:15 AM");

INSERT INTO FLIGHT (FReference,FDate,Airlines,Time)
VALUES ('KSA721','15-JUL-24',"Gulf Air","10:00 AM");
```

```
INSERT INTO FLIGHT (FReference,FDate,Airlines,Time)
VALUES ('JOR631','12-MAY-24',"Fly Dubai","11:45 PM");

//FBOOKS
INSERT INTO FBOOKS (FReference,ID)
VALUES('ABC123','hamad123');

INSERT INTO FBOOKS (FReference,ID)
VALUES('ABD931','ahmad03');

INSERT INTO FBOOKS (FReference,ID)
VALUES('JOR631','aitana98');

INSERT INTO FBOOKS (FReference,ID)
VALUES('KSA721','zayed04');

INSERT INTO FBOOKS (FReference,ID)
VALUES('SPA901','antoine123');

//HBOOKS

INSERT INTO HBOOKS (ID,HReference)
VALUES('ahmad03','2D6H5XHYKUB5');

INSERT INTO HBOOKS (ID,HReference)
VALUES('aitana98','0E108R84IHVP');

INSERT INTO HBOOKS (ID,HReference)
VALUES('antoine123','GVWQ258SU5JH');

INSERT INTO HBOOKS (ID,HReference)
VALUES('hamad123','IEAM1EN302W5');

INSERT INTO HBOOKS (ID,HReference)
VALUES('zayed04','N1ZBPXQ8DLDD');

//Depends_on
INSERT INTO DEPENDS_ON (Currency,Country,CardInfo)
VALUES("Jordanian Dinar",'Turkey','1792153590672458:752:12/25');

INSERT INTO DEPENDS_ON (Currency,Country,CardInfo)
VALUES("Euro",'Spain','5645469192483792:902:03/29');

INSERT INTO DEPENDS_ON (Currency,Country,CardInfo)
VALUES("Sterling Pound",'France','2819595125491190:775:10/26');

INSERT INTO DEPENDS_ON (Currency,Country,CardInfo)
VALUES("Saudi Riyal","Kingdom Of Saudi Arabia",'4339690857621845:980:05/28');

INSERT INTO DEPENDS_ON (Currency,Country,CardInfo)
VALUES("Emirati Dirham","United Arab Emirates",'4043149122201153:123:04/27');
```

```
//LOCATION
INSERT INTO LOCATION (Country,StreetName,City)
VALUES ("Turkey", "Istiklal Street","Istanbul");

INSERT INTO LOCATION (Country,StreetName,City)
VALUES ("France", "Avenue Victor Hugo","Paris");

INSERT INTO LOCATION (Country,StreetName,City)
VALUES ("Spain", "La Rambla","Barcelona");

INSERT INTO LOCATION (Country,StreetName,City)
VALUES ("United Arab Emirates", "Al Yalayis Street","Dubai");

INSERT INTO LOCATION (Country,StreetName,City)
VALUES ("Kingdom Of Saudi Arabia", "Tahlia Street","Riyadh");

//ONE WAY FLIGHT

INSERT INTO ONEWAYFLIGHT (FReference)
VALUES ('ABC123');

INSERT INTO ONEWAYFLIGHT (FReference)
VALUES ('ABD931');

INSERT INTO ONEWAYFLIGHT (FReference)
VALUES ('SPA901');

INSERT INTO ONEWAYFLIGHT (FReference)
VALUES ('KSA721');

INSERT INTO ONEWAYFLIGHT (FReference)
VALUES ('JOR631');

//TWO WAYSFLIGHT

INSERT INTO TWOWAYSFLIGHT (FReference)
VALUES ('ABC123');

INSERT INTO TWOWAYSFLIGHT (FReference)
VALUES ('ABD931');

INSERT INTO TWOWAYSFLIGHT (FReference)
VALUES ('SPA901');

INSERT INTO TWOWAYSFLIGHT (FReference)
VALUES ('KSA721');

INSERT INTO TWOWAYSFLIGHT (FReference)
VALUES ('JOR631');
```

```
//OTHERS

INSERT INTO OTHERS (Fname,Lname,PassportDetails,ID)
VALUES ("Abdullah","Al Maktoum","836450QWE:UAE","hamad123");

INSERT INTO OTHERS (Fname,Lname,PassportDetails,ID)
VALUES ("Bahaa","Ahmad","176055GKL:Jordan","ahmad03");

INSERT INTO OTHERS (Fname,Lname,PassportDetails,ID)
VALUES ("Harry","Gomez","3974110HU:UK","antoine123");

INSERT INTO OTHERS (Fname,Lname,PassportDetails,ID)
VALUES ("Ali","Mohammad","6774360QA:QATAR","zayed04");

INSERT INTO OTHERS (Fname,Lname,PassportDetails,ID)
VALUES ("Jorge","Bonmati","1819827GY:Spain","aitana98");
```

```
//MODIFY RECORDS

UPDATE CAR
SET TYPE='Toyota',Time='10:00 PM'
WHERE TYPE='Mazda';
```

```
//DELETE RECORDS

DELETE OTHERS
WHERE FNAME='Abdullah';
```

```
//Join records with aggregation

SELECT USEERS.ID,AVG (TOTALPRICE)
FROM USERS.ID=PAYMENT.ID AND (TOTALPRICE)>100
GROUP BY USERS.ID;
```

```
//Join records

SELECT FNAME,LNAME,USERS.ID,COUNTRY,PREFERENCE
FROM FBOOKS,USERS
WHERE FBOOKS.ID=USERS.ID AND FNAME='Ahmad';
```


SQL Statements and Records (screenshots)

PAYMENT

BANK	CARDINFO	TOTALPRICE	CARID
REFERENCE	ID		
Arabi Bank ABC123	4043149122201153:123:04/27 hamad123	550	46872870
Cairo Amman bank SPA901	5324044282817655:703:04/27 ahmad03	790	95387896
United Arab Bank KSA721	4339690857621845:980:05/28 zayed04	1250	5264632
BANK	CARDINFO	TOTALPRICE	CARID
REFERENCE	ID		
Bank al Etihad ABD931	1792153590672458:752:12/25 ahmad03	2539	95387896
Lloyds Bank SPA901	2819595125491190:775:10/26 antoine123	999	12577729
Santander Bank SPA901	5645469192483792:902:03/29 aitana98	3500	33678404

USER

ID	EMAIL	
PHONENUMBER	PASSWORD	PASSPORTDETAILS
FNAME	LNAME	
COUNTRY		
hamad123	hamad123@gmail.com	
556168745	hamad4563	952019QWE:UAE
hamad	Al Maktoum	
United Arab Emirates		
ID	EMAIL	
PHONENUMBER	PASSWORD	PASSPORTDETAILS
FNAME	LNAME	
COUNTRY		
antoine123	antoine123@gmail.com	
1632960953	gomez123	8923146HU:UnitedKingdom
antoine	gomez	
France		
ID	EMAIL	
PHONENUMBER	PASSWORD	PASSPORTDETAILS
FNAME	LNAME	
COUNTRY		
ahmad03	ahmad021@gmail.com	
791234567	ahmad1234	194232GKL:Jordan
Ahmad	Mohammad	
Turkey		
ID	EMAIL	
PHONENUMBER	PASSWORD	PASSPORTDETAILS
FNAME	LNAME	
COUNTRY		
aitana98	bonmatil09@gmail.com	
884313506	aitana123	2187903GY:Spain
Aitana	Bonmati	
Spain		
ID	EMAIL	
PHONENUMBER	PASSWORD	PASSPORTDETAILS
FNAME	LNAME	
COUNTRY		
zayed04	fahad123@gmail.com	
531279454	fahad456	8923141QA:QATAR
fahad	zayed	
Kingdom Of Saudi Arabia		

DEPENDS_ON

CURRENCY

COUNTRY

CARDINFO

Jordanian Dinar

Turkey

1792153590672458:752:12/25

Euro

Spain

5645469192483792:902:03/29

CURRENCY

COUNTRY

CARDINFO

Sterling Pound

France

2819595125491190:775:10/26

Saudi Riyal

Kingdom Of Saudi Arabia

CURRENCY

COUNTRY

CARDINFO

4339690857621845:980:05/28

Emirati Dirham

United Arab Emirates

4043149122201153:123:04/27

CAR

CARID	CDATE	TYPE	ID
COUNTRY			
TIME			
46872870	04-JAN-24	Mazda	hamad123
United Arab Emirates			
08:00 PM			
95387896	30-DEC-23	FORD	ahmad03
Turkey			
08:00 AM			
CARID	CDATE	TYPE	ID
COUNTRY			
TIME			
5264632	22-FEB-24	Toyoto	zayed04
Kingdom Of Saudi Arabia			
10:30 AM			
12577729	20-JUL-24	Volkswagen	antoine123
France			
CARID	CDATE	TYPE	ID
COUNTRY			
TIME			
09:30 AM			
33678404	12-MAY-24	Nissan	aitana98
Spain			
12:30 AM			

LOCATION

COUNTRY

STREETNAME

CITY

Turkey
Istiklal Street
Istanbul

France
Avenue Victor Hugo
Paris

COUNTRY

STREETNAME

CITY

Spain
La Rambla
Barcelona

Unite Arab Emirates
Al Yalayis Street

COUNTRY

STREETNAME

CITY

Dubai

Kingdom Of Saudi Arabia
Tahlia Street
Riyadh

FNAME	LNAME	PASSPORTDETAILS
-------	-------	-----------------

ID

Abdullah hamad123	Al Maktoum	836450QWE:UAE
Bahaa ahmad03	Ahmad	176055GKL:Jordan
Harry antoine123	Gomez	3974110HU:UK

FNAME	LNAME	PASSPORTDETAILS
-------	-------	-----------------

ID

Ali zayed04	Mohammad	6774360QA:QATAR
Jorge aitana98	Bonmati	1819827GY:Spain

OTHERS

HOTEL

HREFERENCE	NAME	NUMBEROFROOMS	STAYFROM
STAYTO			
COUNTRY			
CARDINFO			
IEAM1EN302W5	Hamad Al Maktoum	2	26-DEC-23
02-JAN-24			
United Arab Emirates			
4043149122201153:123:04/27			
HREFERENCE	NAME	NUMBEROFROOMS	STAYFROM
STAYTO			
COUNTRY			
CARDINFO			
N1ZBPXQ8DLDD	Fahad Zayed	1	15-JUL-24
25-JUL-24			
Kingdom Of Saudi Arabia			
4339690857621845:980:05/28			
HREFERENCE	NAME	NUMBEROFROOMS	STAYFROM
STAYTO			
COUNTRY			
CARDINFO			
2D6H5XHYKUB5	Ahmad Mohammad	1	01-JAN-24
07-JAN-24			
Turkey			
1792153590672458:752:12/25			
HREFERENCE	NAME	NUMBEROFROOMS	STAYFROM
STAYTO			
COUNTRY			
CARDINFO			
GVWQ258SU5JH	Antioine Gomez	4	22-FEB-24
28-FEB-24			
France			
2819595125491190:775:10/26			
HREFERENCE	NAME	NUMBEROFROOMS	STAYFROM
STAYTO			
COUNTRY			
CARDINFO			
OE108R84IHVP	Aitana Bonmati	3	12-MAY-24
13-MAY-24			
Spain			
5645469192483792:902:03/29			

HBOOKS

ID	HREFERENCE
ahmad03	2D6H5XHYKUB5
aitana98	OE108R84IHVP
antoine123	GVWQ258SU5JH
hamad123	IEAM1EN302W5
zayed04	N1ZBPXQ8DLDD

FLIGHT

PREFERENCE	FDATE	AIRLINES	TIME
ABC123	26-DEC-23	Turkish Airlines	02:30 PM
ABD931	01-JAN-24	Fly Emirates	02:15 AM
SPA901	21-FEB-24	Etihad Airways	06:15 AM
KSA721	15-JUL-24	Gulf Air	10:00 AM
JOR631	12-MAY-24	Fly Dubai	11:45 PM

FBOOKS

PREFERENCE	ID
ABC123	hamad123
ABD931	ahmad03
JOR631	aitana98
KSA721	zayed04
SPA901	antoine123

TWOWAYSFLIGHT

2 FROM TWOWAYSFLIGHT;
PREFERENCE

ABC123
ABD931
SPA901
KSA721
JOR631

ONEWAYFLIGHT

2 FROM ONEWAYFLIGHT;
PREFERENCE

ABC123
ABD931
SPA901
KSA721
JOR631

JOIN RECORDS WITH AGGREGATION FUNCTION

```
SQL> SELECT USERS.ID,AVG(TOTALPRICE)
  2     FROM USERS,PAYMENT
  3     WHERE USERS.ID=PAYMENT.ID AND (TOTALPRICE)>1000
  4     GROUP BY USERS.ID;
```

ID	AVG(TOTALPRICE)
ahmad03	1819.5
zayed04	1250
aitana98	3500

```
SQL> UPDATE CAR
  2     SET TYPE='Toyoto',Time='10:00 PM'
  3     WHERE TYPE='Mazda';
```

MODIFY RECORD

1 row updated.

```
SQL> DELETE OTHERS
  2 WHERE FNAME='Abdullah';
```

1 row deleted.

DELETE RECORD

```
SQL> SELECT FNAME,LNAME,USERS.ID,COUNTRY,PREFERENCE
  2     FROM FBOOKS,USERS
  3     WHERE FBOOKS.ID=USERS.ID AND FNAME='Ahmad';
```

FNAME	LNAME	ID
COUNTRY		
PREFERENCE		
Ahmad	Mohammad	ahmad03
Turkey		
ABD931		

JOIN RECORDS